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FLOOD STUDY
TECHNICAL DATA NOTEBOOK

for

WHITE TANKS/AGUA FRIA
AREA DRAINAGE MASTER STUDY

APPENDIX J
VOLUME 11 OF 15

HEC-2 OUTPUT RESULTS - WASH 1 THRU WASH 5A

Prepared for:
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared by:
THE WLB GROUP, INC.
333 East Osborn Road, Suite 380
Phoenix, Arizona 85012
(602) 279-1016

May 28, 1992

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1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    30OCT91    TIME   10:07:34 *
*****************************************
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```
*****************************************
*  U.S. ARMY CORPS OF ENGINEERS           *
*  HYDROLOGIC ENGINEERING CENTER          *
*  609 SECOND STREET, SUITE D             *
*  DAVIS, CALIFORNIA 95616-4687           *
*          (916) 756-1104                 *
*****************************************
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```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X    X            X    X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                 X
X     X  X        X    X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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THIS RUN EXECUTED 30OCT91 10:07:34

1. H2O
Latest Version
w/ Floodway

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
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T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODPLAIN RUN FILE: 1.H2I
T3 WASH "1" - BEARDSLEY CANAL - WHITE TANKS STRUCTURE #3 NORTH TO PEORIA AV

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	.0055	0	0	0	1195	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	0	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	53	21	22	54	51	4	8
42	5	26	0	110	0	200			

NC	.03	.04	.028	.1	.3		
QT	2	4414	4414				
ET			9.1			9947.34	10139.22

BEGIN BACKWATER ANALYSIS AT NORMAL DEPTH. TIE FLOODPLAIN INTO 100-YR
PONDING WATER SURFACE BEHIND WHITE TANKS STRUCTURE #3

Q @ X1 = 0.000 TO X1 = 0.390 EQUALS Q AT CP12 + (.7) Q AT SUB-WT3
Q = 4125 + (.7)413 =4414 CFS

```
X1    0.000      20      9960     10120     0.000     0.000     0.000
GR     1210    9875      1200      9895      1198      9905      1196      9915      1194      9930
GR     1192    9960      1190      9970    1189.4     10000    1189.5     10030    1189.6     10100
GR     1190   10120      1192     10135      1194     10145      1196     10155    1196.7     10190
       1197.6  10270    1197.1     10295      1198     10320      1200     10350    1200.4     10365

ET                        9.1                                                       9948.33   10160.30
X1    0.070      13      9960     10155       360       370       370
GR     1210    9900      1200      9920      1198      9930      1196      9940      1194      9960
GR    1192.4   10000      1192     10110      1194     10155    1196.2     10165    1195.7     10205
GR     1196   10235      1198     10440      1200     10670

ET                        9.1                                                       9907.83   10260.83
X1    0.156      17      9910     10150       460       450       455
GR     1210    9875      1200      9895      1198      9910      1196      9940      1194     10000
GR    1193.9   10020      1194     10045      1196     10080      1198     10150      1197     10200
GR     1198   10250      1200     10325      1202     10455    1203.2     10490      1202     10540
GR     1204   10560      1206     10575
1
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NH       4      .04      9970       .03     10115       .03     10260       .04     10285
ET                        9.1                                                       9954.33     10115
X1    0.231      18      9925     10115       400       325       395
GR     1210    9910      1202      9925      1200      9955      1198      9970      1196     10000
GR    1196.1   10025      1196     10045      1198     10075      1200     10105    1200.5     10115
GR     1200   10135      1198     10150      1196     10160    1195.3     10165      1196     10175
GR     1198   10190      1200     10260    1200.4     10285

NH       6      .03      9775       .03      9890      .025     10055       .04     10245       .03
NH   10340      .04     10655
ET                        9.1                                                       9881.25     10065
X1    0.307      23      9785     10065       345       360       400
GR     1210    9775      1206      9785      1204      9825      1202      9890      1200      9935
GR     1198    9980    1197.7     10000      1198     10015      1200     10030      1202     10040
GR     1204   10055      1206     10065      1206     10165      1204     10245      1202     10255
GR     1200   10275    1199.4     10285      1200     10300      1202     10315      1204     10340
GR     1206   10480      1208     10615      1210     10655

NC      .03      .04       .03        .1        .3
ET                        9.1                                                       9931.33   10041.47
X1    0.390      11      9935     10040       420       480       440
GR     1209    9910      1208      9935      1206      9955      1204      9970      1202      9985
GR    1201.8   10000      1202     10010      1204     10020      1206     10030      1208     10040
GR     1210   10060

QT       2    4125      4125
ET                        9.1                                                       9922.83   10040.76

          Q @ X1 = 0.465 TO X1 = 0.770 EQUALS Q AT CP12
          Q = 4125 CFS

X1    0.465      15      9930     10030       410       390       395
       1217.4    9880      1216      9895      1214      9905      1212      9920      1210      9930
        1208     9950      1206      9990      1205     10000      1206     10010      1208     10020
GR     1210   10030      1212     10045      1214     10120      1216     10240      1218     10360

ET                        9.1                                                       9940.37     10100
X1    0.543      14      9950     10030       445       370       410
GR     1219    9910      1218      9920      1216      9930      1214      9940      1212      9950
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GR     1210      9970      1208      9985    1206.7     10000      1208     10010      1210     10030
GR     1212     10120      1214     10175      1216     10245      1218     10320

ET                          9.1                                                       9954.5     10100
       0.620        13      9970     10060       410       410       410
GR    1220.7      9920      1220      9930      1212      9970      1210      9980      1208      9995
GR    1207.8     10000      1208     10005      1210     10020      1212     10060      1214     10290
GR      1216     10370      1218     10410      1220     10475
1
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ET                          9.1                                                      9954.17   10045.83
X1     0.696        19      9970     10030       400       400       400
GR    1222.5      9920      1222      9930      1220      9940      1218      9950      1216      9960
GR      1214      9970      1212      9980      1210     10000      1212     10015      1214     10030
GR      1216     10040      1218     10050      1220     10075    1220.2     10110      1220     10130
GR      1219     10215      1220     10245    1218.6     10305      1220     10335

ET                          9.1                                                      9950.13   10071.28
X1     0.770        17      9970     10035       390       390       390
GR      1221      9930      1220      9950      1218      9960      1216      9970      1214      9975
GR      1212      9990    1211.3     10000      1212     10010      1214     10020      1216     10035
GR      1218     10170    1218.3     10190    1217.5     10225    1218.5     10260    1217.5     10310
GR      1218     10340      1220     10400

QT         2      3890      3890
ET                          9.1                                                      9943.22   10083.40

          Q @ X1 = 0.846 TO X1 = 0.998 EQUALS (Q AT CP12 + Q AT CP10)/2
          Q = (4125 + 3655)/2 = 3890 CFS

X1     0.846        14      9960     10040       400       400       400
GR    1222.3      9920      1222      9930      1220      9945      1218      9955      1216      9960
GR      1214      9975    1213.6     10000      1214     10025      1216     10040      1218     10060
GR    1218.3     10080      1218     10100      1220     10140      1222     10215

ET                          9.1                                                      9966.26     10070
X1     0.920        12      9970     10070       395       395       395
GR    1227.2      9935      1224      9955      1222      9965      1220      9970      1218      9980
GR      1216      9990    1215.6     10000      1216     10010      1218     10025      1220     10070
GR      1222     10100    1222.4     10110

ET                          9.1                                                      9969.28   10043.59
X1     0.998        10      9975     10035       410       410       410
GR    1230.3      9940      1230      9955      1224      9975      1220      9985    1218.3     10000
GR      1220     10015      1222     10025      1224     10035      1226     10045    1227.8     10055

NC       .03       .04       .03        .3        .5
QT         2      3655      3655
ET                          9.1                                                      9957.19   10032.60

          Q @ X1 = 1.074 TO X1 = 1.148 EQUALS Q AT CP10 (DOWNSTREAM OF DIVER-
          Q = 3655 CFS                                  SION AT NORTHERN AVE.)

       1.074        10      9965     10030       400       400       400
GR    1231.8      9930      1230      9950      1228      9965      1222      9985      1221     10000
GR      1222     10010      1228     10030      1230     10035      1232     10045    1233.5     10080

NC      .024      .024      .024        .3        .5
ET                         9.11                                                        9880   10069.42
```

NORTHERN AVENUE
CROSS SECTION EXTENDED - APPROXIMATELY 1486 CFS BREAKS OUT EAST OVER
BEARDSLEY CANAL FOR NEXT THREE UPSTREAM CROSS SECTIONS.

```
X1    1.148      18      9989    10011     395     405     390
X3       10                                                      1234.5   1234.5
GR    1234.5    9880    1234.5     9920    1232    9940    1230    9970     1228     9980
GR      1227    9989    1224.7     9990    1224    9992  1224.7    9994     1227     9995
GR      1227   10005    1224.7    10006    1224   10008  1224.7   10010     1227    10011
GR      1228   10020      1236    10080  1236.5   10230

QT         2    4150     4150.
SB         1     1.5       2.5       0      16      .1     113     .41   1224.4     1224
ET                          9.11                                          9886  10247.26
```

Q @ X1 = 1.159 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
Q = 5141 - 991 = 4150 CFS THE EAST
CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS. THIS
WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT TWO UPSTREAM CROSS
SECTIONS. NO LOSS OF VOLUME IS REQUIRED BECAUSE OF BREAKOUT.

Sper. Br. low chord top of Road

```
X1    1.159      21      9989    10011      60      60      60
X2                         (1)   1230.4  1234.5
X3       10                                                      1234.5   1234.5
BT       21    9886    1234.5    1234.5    9909  1234.5  1234.5    9916   1234.5   1234.5
BT     9927  1234.5    1234.5      9968  1234.6  1234.6    9989   1234.7   1227.4     9990
BT   1234.7  1229.7      9992   1234.72  1230.4    9994  1234.73   1229.7     9995  1234.75
BT   1227.4   10005    1234.8    1227.4   10006  1234.81  1229.7    10008  1234.82   1230.4
BT    10010  1234.83   1229.7     10011  1234.85  1227.4   10034     1238     1238    10080
BT     1238    1238     10115      1238    1238   10145    1238     1238    10200     1237
BT     1237   10280      1239      1239
GR   1234.5    9886    1234.5      9909  1233.75    9916  1229.7     9927   1228.7     9968
GR   1227.4    9989    1225.1      9990  1224.4     9992  1225.1     9994   1227.4     9995
GR   1227.4   10005    1225.1     10006  1224.4    10008  1225.1    10010   1227.4    10011
GR     1238   10034      1238     10080    1238   10115    1238    10145     1237    10200
GR     1239   10280

NC      .03     .05      .035        .3      .5
QT        2    4645      4645
ET                         9.1                                          9950  10298.35
```

Q AT X1 = 1.237 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
Q = 5141 - 495 = 4645 CFS THE EAST
CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

```
X1    1.237      18      9975    10030     390     390     410
GR   1237.1    9950      1236     9975    1230    9985    1228     9995   1227.8    10000
GR     1228   10010      1230    10020    1232   10030  1233.1    10070     1232    10090
GR   1231.2   10100      1232    10120    1234   10140    1236    10185   1234.5    10235
GR     1236   10275      1238    10295    1240   10315
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```
NC      .03       .05      .035       .1        .3
QT        2      5141      5141
ET                          9.1                                                    9963.26    10172.92

          Q AT X1 = 1.313 TO X1 = 1.466 EQUALS Q AT CP10 (UPSTREAM OF DIVERSION
          Q = 5141 CFS                                   AT NORTHERN AVE.)

X1     1.313        16      9975     10075       405       405       405
GR    1239.1      9950      1238      9975      1234      9980      1232      9990    1230.8     10000
GR      1232     10020      1234     10045    1234.5     10075    1234.4     10110      1236     10150
GR      1238     10160      1240     10210      1242     10240    1242.8     10280    1243.2     10325
GR      1244     10410

NH         5       .05      9960       .03      9985      .035     10065       .06     10100       .04
NH     10230
ET                          9.1                                                    9982.22     10125
X1     1.388        18      9985     10025       395       395       395
GR    1244.1      9960      1244      9970      1240      9985      1236      9995    1234.5     10000
GR      1236     10005      1238     10015    1238.3     10025      1238     10040    1238.5     10065
GR      1238     10075      1236     10085    1235.9     10095      1236     10100      1238     10125
GR      1240     10165      1242     10200    1242.7     10230

NC      .03       .03      .035       .1        .3
ET                          9.1                                                    9980.75     10160
X1     1.466        18      9980     10035       410       410       410
GR    1247.8      9960      1246      9980      1240      9990      1238      9995    1237.5     10000
GR      1238     10005      1240     10015      1244     10025    1244.3     10035      1244     10045
GR      1242     10065    1241.9     10085      1242     10100      1244     10115      1246     10160
GR      1247     10220      1248     10320    1249.6     10365

         2       3816      3816
ET                          9.1                                                    9964.3    10102.78

          Q AT X1 = 1.556
          Q = 3816 CFS

X1     1.556        10      9975     10045       475       475       475
GR      1250      9955      1248      9975      1242      9990      1241     10000      1242     10015
GR      1244     10035      1246     10045      1248     10060      1250     10140      1251     10170

QT        2       2048      2048
ET                          9.1                                                      9950    10149.96

          Q @ X1 = 1.556 TO X1 = 1.996 EQUALS (Q AT SUB 10/4 + Q AT CP3*)
          Q = (1173/4 + 1755) = 2048 CFS
                                   * = DOWNSTREAM OF DIVERSON AT OLIVE AVE.

          CONFLUENCE WITH WASH "1A" - CHOLLA WASH
1
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          CROSS SECTION EXTENDED DUE TO OVERTOPPING OF BEARDSLEY CANAL DIKE

X1     1.616        12      9965     10060       320       320       320
GR    1249.7      9950      1248      9965      1246      9980      1244     10000      1246     10040
GR    1247.1     10060      1246     10080    1245.6     10085      1246     10095      1248     10110
GR      1250     10125      1252     10200

ET                          9.1                                                    9974.68    10135.88
X1     1.692        11      9985     10035       400       400       400
GR    1251.9      9960      1250      9985      1248      9995    1247.7     10000      1248     10010
```

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GR    1249.3     10035     1248.2     10100      1250     10130      1252     10145      1254     10170
GR    1255.3     10190

NH         5       .04       9940      .035      9960       .03     10045       .04     10220      .035
      10325
ET                           9.1                                                        9962.88     10140
X1    1.768        14       9960     10045       400       400       400
GR    1254.6      9940       1254      9960      1252      9975    1250.7     10000      1252     10020
GR    1252.9     10045     1250.8     10095    1252.1     10140    1251.2     10180      1252     10220
GR      1254     10240       1256     10265      1258     10295      1260     10325

NC       .04       .05       .035        .1        .3
ET                           9.1                                                        9980.82   10055.88
X1    1.844         7       9980     10020       400       400       400
GR      1261      9965       1260      9980      1254      9990    1252.4     10000      1254     10010
GR      1258     10020     1259.6     10060

ET                           9.1                                                        9973.1   10048.95
X1    1.920        10       9975     10030       405       405       405
GR    1265.2      9960       1264      9970      1262      9975      1260      9980      1256      9990
GR    1255.2     10000       1256     10010      1260     10020      1262     10030      1263     10055

NC       .04       .05       .035        .1        .3
ET                           9.1                                                          9974     10037
X1    1.996         8       9965     10055       400       400       400
GR    1268.7      9965       1268      9970      1262      9980    1260.4     10000      1262     10015
GR      1264     10025       1266     10040      1267     10055

NC       .04       .04       .035        .3        .5
QT         2      1755       1755
                             9.1                                                        9972.17     10040

          Q @ X1 = 2.072 TO X1 = 2.159 EQUALS Q AT CP3 (DOWNSTREAM OF DIVERSION
          Q = 1755 CFS                                 AT OLIVE AVENUE)

X1    2.072         9       9965     10020       400       400       400
GR    1271.1      9965       1270      9970      1264      9985    1263.5     10000      1264     10005
GR      1266     10020       1268     10145      1270     10275    1270.5     10300
1
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NC      .024      .024       .024        .3        .5
ET                           9.11                                                          9910   10542.73

          OLIVE AVENUE
          NEXT THREE UPSTREAM CROSS SECTIONS EXTENDED - APPROXIMATELY 490 CFS
          BREAKS OUT EAST OVER BEARDSLEY CANAL.

          FLOODPLAIN LIMITS BASED UPON UPSTREAM FLOW COMING OVER THE TOP OF
          OLIVE AVENUE.

X1    2.159        16       9991   10008.2       440       460       460
X3       10                                                        1275.6    1275.6
      1275.7      9910       1274      9970    1271.2      9991    1269.2    9991.5    1267.7      9993
      1267.2      9995     1267.6   10004.6    1268.1   10006.4    1269.4   10007.6    1271.2   10008.2
GR      1272     10050       1274     10200      1276     10440      1278     10530    1279.5     10720
GR      1280     10910

QT         2      2245       2245
SB      1.25       1.5        2.5         0        10        .1       104       .56    1268.2    1267.8
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ET                    9.11                                                    9910    10542.73

        Q @ X1 = 2.107 TO X1 = 2.267 EQUALS Q AT CP3 (UPSTREAM OF DIVERSION
        Q = 2245 CFS                                  AT OLIVE AVE.)

        PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS.  THIS WILL
        PRECLUDE ESTABLISHING A FLOODWAY FOR NEXT THREE UPSTEAM CROSS
        SECTIONS.  NO VOLUME LOSS IS REQUIRED BECAUSE OF BREAKOUT.

X1    2.167       24      9991    10008.2      40      40      40
X2                         1     1275.6    1275.9
X3       10                                                   1275.9    1275.9
BT       24     9910      1277      1277    9940  1276.63  1276.63      9968    1276.5    1276.5
BT     9991   1276.4    1271.6    9991.5  1276.4   1273.6     9993    1276.4    1275.1      9995
BT   1276.4   1275.6      9997    1276.4  1275.1   9998.5   1276.4    1273.6      9999    1276.4
BT   1271.6    10001    1276.4    1271.6 10001.3   1276.4   1273.4   10002.8    1276.4    1274.7
BT   10004.   1276.4    1275.2   10006.4  1276.4   1274.7  10007.6    1276.4    1273.4   10008.2
BT   1276.4   1271.6     10055    1276.2  1276.2    10085   1276.1    1276.1     10100    1275.9
BT   1275.9    10300    1276.1    1276.1   10500   1277.3   1277.3     10530      1278      1278
BT   10720   1279.5    1279.5
GR    1277     9910    1274.7      9940  1274.0     9968   1271.6      9991    1269.6    9991.5
GR   1268.1    9993    1267.6      9995  1268.1     9997   1269.6    9998.5    1271.6      9999
GR   1271.6   10001    1269.8   10001.3  1268.5  10002.8   1268.0   10004.6    1268.5   10006.4
GR   1269.8  10007.6   1271.6   10008.2  1272.3    10055   1273.2     10085    1274.3     10100
GR   1275.3   10300      1277     10500   1278    10530   1279.5     10720

ET                        9.1                                                    9910    10518.19
X1    2.186      18      9955     10075     100     100     100
GR    1277    9910    1276.5      9920    1276     9930    1274      9940      1272      9955
GR    1270    9980    1269.5     10000    1270    10010  1270.5     10030      1270     10045
      1272   10075      1274     10100  1275.5    10130    1275     10225      1276     10315
GR   1277.5  10410      1278     10515    1280    10580
1
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NC     .04     .07      .035       .1       .3
ET                        9.1                                                    9970    10352.22

        NEXT FOUR UPSTREAM CROSS SECTIONS ARE AT THE CONFLUENCE WITH
        WASH "1B" - WATERFALL WASH

X1    2.267      16      9970     10025     410     415     430
GR   1277.8    9970      1276      9985    1272     9995  1271.1     10000      1272     10005
GR    1274    10025      1276     10130  1276.3    10145  1275.3     10160      1276     10200
GR   1276.9   10230      1276     10280    1275    10310    1276     10330      1278     10350
GR    1280    10430

QT       2     997       997
ET                        9.1                                                 9977.12     10100

        Q @ X1 = 2.330 TO X1 = 2.640 EQUALS Q AT I1CP3.
        Q = 997 CFS

      2.330       9      9965     10040     330     330     330
     1280.3    9965      1280      9970    1278     9980    1274      9990    1273.3     10000
GR    1274    10010      1276     10040    1278    10160    1280     10335

NH       5      .04      9965      .035   10030      .05   10085      .035     10225      .05
NH   10300
ET                        9.1                                                 9986.62     10090
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X1    2.392       14       9965     10030       330       330       330
GR   1282.7     9965       1282      9975      1280      9985      1278      9995    1275.4     10000
GR     1276    10005       1278     10015      1280     10030    1280.3     10060      1280     10085
GR     1278    10110     1278.7     10155      1280     10225      1282     10300

NH        3      .04       9970      .035     10055       .05     10300
ET                          9.1                                                    9983.68     10085
X1    2.468       11       9970     10055       400       400       400
GR   1285.8     9970       1284      9980      1280      9995    1279.7     10000      1280     10005
GR     1282    10020     1283.1     10055      1282     10080    1280.4     10100      1282     10170
GR   1283.5    10300

NH        3      .04       9960      .035     10030       .07     10325
ET                          9.1                                                    9976.58     10085
X1    2.553       10       9960     10030       450       450       450
GR   1288.7     9960       1288      9965      1286      9975      1284      9985    1282.1     10000
GR     1284    10030       1285     10060      1286     10110      1288     10200      1289     10325

NC     .035      .07       .035        .1        .3
ET                          9.1                                                    9969.89     10080
X1    2.640       14       9965     10040       460       460       460
GR   1298.8     9950       1288      9965      1286      9980      1284      9990    1282.9     10000
GR     1284    10010     1284.3     10040      1284     10090    1283.5     10110      1284     10130
GR     1286    10150       1288     10175      1290     10220      1292     10255
1
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QT        2      710        710
                            9.1                                                    9985.09     10035

          Q @ X1 = 2.741 TO X1 = 3.081 EQUALS Q AT SUB-3A + Q AT SUB-3/2
          Q = 296 + 828/2 = 710 CFS

X1    2.741       17       9965     10035       530       530       530
GR   1292.1     9965       1292      9970      1290      9980      1284      9995    1283.9     10000
GR     1284    10005       1286     10015      1288     10025    1288.4     10035      1288     10045
GR     1286    10125     1285.8     10145      1286     10150      1290     10170      1292     10215
GR     1294    10285     1294.4     10340

ET                          9.1                                                    9983.29     10055
X1    2.826       10       9965     10055       450       450       450
GR     1291     9965       1290      9980      1286      9995    1285.7     10000      1286     10020
GR     1287    10055       1288     10115      1290     10190      1292     10205    1293.5     10250

ET                          9.1                                                    9980.56   10044.07
X1    2.907        8       9985     10030       430       430       430
GR   1295.9     9970       1294      9985      1292      9995    1291.3     10000      1292     10010
GR     1294    10030       1296     10080    1297.7     10110

NH        2     .035      10025       .07     10125
ET                          9.1                                                    9980.79   10066.54
X1    3.009        7       9995     10025       540       540       540
GR   1301.8     9975       1300      9995    1296.6     10000      1298     10005      1300     10025
     1302    10090     1302.5     10125

NC      .04      .07       .035        .1        .3
ET                          9.1                                                    9974.80   10050.31
X1    3.081        9       9985     10035       380       380       380
GR   1303.8     9970       1302      9985      1300      9990    1297.5     10000      1298     10005
GR     1300    10020       1302     10035      1304     10060    1304.2     10085
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QT      2       296     296
ET                      9.1                                                     9980.18   10034.46

        Q @ X1 = 3.167 TO X1 = 3.540 EQUALS Q AT SUB-3A
        Q = 296 CFS

X1    3.167      13     9960    10035     450     370     450
GR   1306.3    9860     1306     9905    1305    9930    1306    9960     1304     9980
GR     1300    9990   1299.8    10000    1300   10010    1302   10020     1304    10035
GR     1306   10130   1306.3    10210    1308   10280

ET                      9.1                                                     9949.66   10016.53
X1    3.214      17     9950    10015     230     280     250
GR   1312.8    9920     1312     9930    1310    9940    1304    9950   1302.7    10000
GR     1304   10015     1306    10030    1308   10040    1310   10050     1312    10060
GR     1313   10070     1312    10080    1310   10085  1308.6   10115     1310    10145
GR     1312   10180     1314    10260
1
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ET                      9.1                                                     9986.85   10040.75
X1    3.301      16     9990    10025     460     460     460
GR   1314.5    9960     1314     9970    1310    9980    1308    9990   1306.1    10000
GR     1307   10020     1308    10025    1310   10075    1312   10100     1313    10140
GR     1312   10200   1312.4    10235    1312   10270  1310.3   10285     1312    10300
GR     1313   10320

                        9.1                                                     9985.95   10018.11
X1    3.383      11     9985    10020     430     430     430
GR   1319.1    9970     1318     9975    1312    9985    1310    9990   1309.1    10000
GR     1310   10010     1312    10020    1314   10030    1316   10045     1318    10075
GR   1319.1   10120

ET                      9.1                                                     9988.73   10013.82
X1    3.460      10     9975    10030     410     410     410
GR   1320.4    9975     1320     9985    1314    9990  1312.6   10000     1314    10010
GR     1318   10020     1320    10030    1322   10090    1324   10245   1325.2    10290

ET                      9.1                                                     9993.35   10043.80
X1    3.540      10     9980    10050     420     420     420
GR   1321.3    9980     1320     9990  1316.3   10000  1317.3   10015   1317.1    10030
GR     1318   10040     1320    10050    1322   10090    1324   10165     1326    10310

QT      2       148     148
ET                      9.1                                                     9987.09   10041.01

        Q @ X1 = 3.610 TO X1 = 3.678 EQUALS Q AT SUB-3A/2
        Q = 296/2 = 148 CFS

X1    3.610       8     9975    10010     370     370     370
GR     1324    9975     1320     9990  1318.3   10000    1320   10010     1322    10090
GR     1324   10155     1326    10370  1326.6   10420

                        9.1                                                     9984.76   10021.55
X1    3.678      13     9960    10030     360     360     360
GR     1330    9960     1320     9990  1318.8   10000    1320   10015     1324    10030
GR     1326   10050     1328    10120  1328.2   10160  1327.4   10185   1328.4    10225
GR   1327.7   10270     1328    10320    1330   10400
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO .000
BEGIN BACKWATER ANALYSIS AT NORMAL DEPTH. TIE FLOODPLAIN INTO 100-YR
PONDING WATER SURFACE BEHIND WHITE TANKS STRUCTURE #3

Q @ X1 = 0.000 TO X1 = 0.390 EQUALS Q AT CP12 + (.7) Q AT SUB-WT3
Q = 4125 + (.7)413 =4414 CFS

.000	3.44	1192.84	.00	1195.00	1193.93	1.09	.00	.00	1192.00
4414.0	11.0	4286.4	116.6	5.3	506.0	29.4	.0	.0	1190.00
.00	2.06	8.47	3.96	.030	.028	.040	.000	1189.40	9947.34
.005496	0.	0.	0.	0	0	4	.00	191.88	10139.22

*SECNO .070

.070	3.17	1195.17	1195.11	.00	1196.34	1.18	2.38	.03	1194.00
4414.0	20.5	4386.6	6.9	6.8	502.5	3.1	4.5	1.7	1194.00
.01	3.02	8.73	2.23	.030	.028	.040	.000	1192.00	9948.33
.007662	360.	370.	370.	4	11	0	.00	211.97	10160.30

*SECNO .156

3301 HV CHANGED MORE THAN HVINS

.156	4.39	1198.29	.00	.00	1198.96	.67	2.56	.05	1198.00
4414.0	.3	4248.5	165.3	.3	636.5	80.4	10.9	4.7	1198.00
.03	.89	6.67	2.05	.030	.028	.040	.000	1193.90	9907.83
.004312	460.	455.	450.	2	0	0	.00	352.99	10260.83

1490 NH CARD USED
*SECNO .231

3265 DIVIDED FLOW

.231	4.74	1200.04	.00	.00	1200.78	.74	1.80	.02	1202.00
4414.0	.0	2894.9	1519.1	.0	408.9	230.4	16.8	7.3	1200.50
.05	.00	7.08	6.59	.000	.029	.030	.000	1195.30	9954.39
.005208	400.	395.	325.	3	0	0	.00	280.61	10262.55

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO .307

5 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.307	4.57	1202.27	1202.27	.00	1203.39	1.12	2.23	.11	1206.00
4414.0	.0	3736.9	677.1	.0	422.0	109.3	22.0	9.6	1206.00
.06	.00	8.85	6.20	.000	.025	.030	.000	1197.70	9881.26
.006290	345.	400.	360.	2	8	0	.00	225.46	10318.36

CCHV= .100 CEHV= .300
*SECNO .390

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.390	6.35	1208.15	1208.15	.00	1210.06	1.91	3.24	.24	1208.00
4414.0	.2	4413.7	.1	.3	397.9	.1	26.8	11.3	1208.00
.07	.80	11.09	.60	.030	.030	.040	.000	1201.80	9931.33
.008589	420.	440.	480.	20	11	0	.00	110.14	10041.47

*SECNO .465

Q @ X1 = 0.465 TO X1 = 0.770 EQUALS Q AT CP12
Q = 4125 CFS

.465	6.43	1211.43	.00	.00	1212.94	1.51	2.85	.04	1210.00
4125.0	15.7	4091.5	17.8	5.1	413.5	7.7	30.5	12.3	1210.00
.08	3.05	9.90	2.30	.030	.030	.040	.000	1205.00	9922.83
.006066	410.	395.	390.	2	0	0	.00	117.93	10040.76

*SECNO .543

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

.543	7.23	1213.93	.00	.00	1214.61	.68	1.58	.08	1212.00
4125.0	23.1	2959.0	1142.9	9.3	395.3	314.3	35.7	13.9	1210.00
.10	2.49	7.49	3.64	.030	.030	.040	.000	1206.70	9940.37
.002734	445.	410.	370.	2	0	0	.00	232.59	10172.96

*SECNO .620

.620	7.29	1215.09	.00	.00	1215.52	.42	.88	.03	1212.00
4125.0	65.6	2808.1	1251.3	24.0	459.9	506.9	43.8	16.8	1212.00
.12	2.73	6.11	2.47	.030	.030	.040	.000	1207.80	9954.50
.001739	410.	410.	410.	2	0	0	.00	379.46	10333.96

*SECNO .696

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.696	7.17	1217.17	1217.17	.00	1219.31	2.14	1.21	.52	1214.00
4125.0	151.7	3859.5	113.8	25.1	320.0	25.1	50.0	19.0	1214.00
.13	6.05	12.06	4.54	.030	.030	.040	.000	1210.00	9954.16
.006439	400.	400.	400.	20	8	0	.00	91.67	10045.84

*SECNO .770

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.61

.770	8.68	1219.98	.00	.00	1220.26	.29	.77	.19	1216.00
4125.0	106.9	2376.6	1641.5	39.5	440.3	803.7	57.4	21.4	1216.00
.16	2.71	5.40	2.04	.030	.030	.040	.000	1211.30	9950.13
.000943	390.	390.	390.	2	0	0	.00	449.10	10399.23

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .846

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

Q @ X1 = 0.846 TO X1 = 0.998 EQUALS (Q AT CP12 + Q AT CP10)/2
Q = (4125 + 3655)/2 = 3890 CFS

.846	6.64	1220.24	.00	.00	1220.86	.63	.50	.10	1216.00
3890.0	99.3	3269.6	521.1	28.8	479.0	198.8	66.6	24.4	1216.00
.18	3.45	6.83	2.62	.030	.030	.040	.000	1213.60	9943.22
.001754	400.	400.	400.	3	0	0	.00	205.70	10148.92

*SECNO .920

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.920	5.90	1221.50	1221.50	.00	1223.20	1.70	1.29	.32	1220.00
3890.0	9.8	3833.8	46.4	2.8	363.6	16.8	71.5	25.9	1220.00
.19	3.51	10.54	2.76	.030	.030	.040	.000	1215.60	9966.26
.008169	395.	395.	395.	20	11	0	.00	126.18	10092.44

*SECNO .998

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.998	7.42	1225.72	1225.72	.00	1228.11	2.40	3.18	.21	1224.00
3890.0	18.3	3850.7	21.0	4.9	308.5	7.4	74.8	26.8	1224.00
.20	3.73	12.48	2.84	.030	.030	.040	.000	1218.30	9969.28
.007368	410.	410.	410.	2	11	0	.00	74.31	10043.59

CCHV= .300 CEHV= .500
*SECNO 1.074
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 1.074 TO X1 = 1.148 EQUALS Q AT CP10 (DOWNSTREAM OF DIVER-
Q = 3655 CFS SION AT NORTHERN AVE.)

1.074	8.03	1229.03	.00	.00	1230.71	1.68	2.38	.22	1228.00
3655.0	9.0	3643.8	2.2	4.1	350.2	1.4	77.9	27.5	1228.00
.21	2.22	10.41	1.59	.030	.030	.040	.000	1221.00	9957.19
.004850	400.	400.	400.	2	0	0	.00	75.41	10032.60

CCHV= .300 CEHV= .500
*SECNO 1.148
3280 CROSS SECTION 1.15 EXTENDED .09 FEET

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

NORTHERN AVENUE
CROSS SECTION EXTENDED - APPROXIMATELY 1486 CFS BREAKS OUT EAST OVER
BEARDSLEY CANAL FOR NEXT THREE UPSTREAM CROSS SECTIONS.

1.148	10.59	1234.59	1234.59	.00	1235.07	.48	.69	.36	1227.00
3655.0	1282.8	1275.4	1096.9	257.7	192.8	226.6	82.6	28.7	1227.00

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      .23      4.98      6.62      4.84      .024      .024      .024      .000   1224.00   9880.00
   .000893     395.      390.      405.        20        22         0       .00    189.42  10069.42


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.00      1.50      2.50      .00       16.00     .10       113.00    .41       1224.40   1224.00

*SECNO 1.159
3280 CROSS SECTION      1.16 EXTENDED      3.68 FEET

1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.36

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape


 EGPRS     EGLWC     H3        QWEIR     QPR       BAREA     TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                                AREA
   1266.00   1235.07      .00      2716.     1441.      113.      110.     1230.40   1234.50      369.


          Q @ X1 = 1.159 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
          Q = 5141 - 991 = 4150 CFS                                THE EAST
          CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

          PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS.  THIS
          WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT TWO UPSTREAM CROSS
          SECTIONS.  NO LOSS OF VOLUME IS REQUIRED BECAUSE OF BREAKOUT.

    1.159     13.78   1238.18      .00       .00   1238.38      .20      3.31      .00   1227.40
   4150.0    2742.2    1031.1     376.8     765.1     263.0     211.6     83.9     29.1   1227.40
      .23      3.58      3.92      1.78      .024      .024      .024     .000   1224.40   9886.00
  .000207       60.       60.       60.         2         0         6      .00    361.26  10247.26


CCHV=     .300 CEHV=     .500
*SECNO 1.237
3280 CROSS SECTION      1.24 EXTENDED      1.24 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .61


          Q AT X1 = 1.237 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
          Q = 5141 - 495 = 4645 CFS                                THE EAST
          CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

    1.237     10.54   1238.34      .00       .00   1238.52      .19      .14      .00   1236.00
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4645.0	82.6	2130.4	2432.0	44.6	469.9	1110.9	96.9	32.3	1232.00
.27	1.85	4.53	2.19	.030	.035	.050	.000	1227.80	9950.00
.000689	390.	410.	390.	2	0	0	.00	348.35	10298.35

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 1.313

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

Q AT X1 = 1.313 TO X1 = 1.466 EQUALS Q AT CP10 (UPSTREAM OF DIVERSION
Q = 5141 CFS AT NORTHERN AVE.)

1.313	7.71	1238.51	.00	.00	1239.21	.70	.54	.15	1238.00
5141.0	3.4	4004.6	1133.0	3.0	547.2	293.5	108.4	34.9	1234.50
.28	1.13	7.32	3.86	.030	.035	.050	.000	1230.80	9963.26
.003156	405.	405.	405.	0	0	0	.00	209.66	10172.92

1490 NH CARD USED
*SECNO 1.388

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.388	6.24	1240.74	1240.74	.00	1242.20	1.46	2.31	.23	1240.00
5141.0	3.1	1714.7	3423.2	1.0	145.6	403.0	114.7	36.7	1238.30
.29	2.99	11.78	8.49	.030	.035	.044	.000	1234.50	9982.23
.014399	395.	395.	395.	5	15	0	.00	195.71	10177.94

CCHV= .100 CEHV= .300
*SECNO 1.466
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.466	8.05	1245.55	1245.55	.00	1247.17	1.63	4.67	.05	1246.00
5141.0	.0	2752.5	2388.5	.0	251.3	256.0	119.7	38.4	1244.30
.31	.00	10.95	9.33	.000	.035	.030	.000	1237.50	9980.75
.009246	410.	410.	410.	3	11	0	.00	169.07	10149.83

NO 1.556

1

Q AT X1 = 1.556
Q = 3816 CFS

1.556	8.07	1249.07	.00	.00	1250.20	1.13	2.98	.05	1248.00
3816.0	11.9	3597.7	206.4	5.7	412.4	53.9	125.0	40.1	1246.00
.32	2.08	8.72	3.83	.030	.035	.030	.000	1241.00	9964.30
.004085	475.	475.	475.	2	0	0	.00	138.48	10102.78

*SECNO 1.616
3280 CROSS SECTION 1.62 EXTENDED .97 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

Q @ X1 = 1.556 TO X1 = 1.996 EQUALS (Q AT SUB 10/4 + Q AT CP3*)
Q = (1173/4 + 1755) = 2048 CFS
* = DOWNSTREAM OF DIVERSON AT OLIVE AVE.

CONFLUENCE WITH WASH "1A" - CHOLLA WASH
CROSS SECTION EXTENDED DUE TO OVERTOPPING OF BEARDSLEY CANAL DIKE

1.616	6.67	1250.67	.00	.00	1250.79	.12	.49	.10	1248.00
2048.0	43.4	1343.3	661.3	27.2	477.2	243.6	129.5	41.4	1247.10
.35	1.60	2.81	2.71	.030	.035	.030	.000	1244.00	9950.00
.000513	320.	320.	320.	2	0	0	.00	199.96	10149.96

*SECNO 1.692

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .25

1.692	3.08	1250.78	.00	.00	1251.49	.71	.52	.18	1250.00
2048.0	9.7	766.5	1271.9	4.0	115.2	185.1	134.4	43.0	1249.30
.37	2.39	6.65	6.87	.030	.035	.030	.000	1247.70	9974.68
.008116	400.	400.	400.	3	0	0	.00	161.21	10135.88

1490 NH CARD USED
*SECNO 1.768

1.768	2.92	1253.62	.00	.00	1253.89	.27	2.35	.04	1254.00
2048.0	.0	666.7	1381.3	.0	140.9	358.2	138.0	45.0	1252.90
.40	.00	4.73	3.86	.000	.030	.040	.000	1250.70	9962.88
.004453	400.	400.	400.	4	0	0	.00	273.29	10236.16

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 1.844

1 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.844	7.04	1259.44	1259.44	.00	1261.21	1.77	2.45	.45	1260.00
2048.0	.0	1989.9	58.1	.0	183.7	25.7	141.3	46.6	1258.00
.41	.00	10.83	2.26	.000	.035	.050	.000	1252.40	9980.94
.008985	400.	400.	400.	20	20	0	.00	74.94	10055.88

*SECNO 1.920

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

1.920	7.58	1262.78	.00	.00	1263.69	.91	2.40	.09	1262.00
2048.0	.9	2039.2	7.9	.8	266.1	7.7	143.5	47.3	1262.00
.42	1.23	7.66	1.03	.040	.035	.050	.000	1255.20	9973.04
.004195	405.	405.	405.	2	0	0	.00	76.54	10049.58

CCHV= .100 CEHV= .300
*SECNO 1.996

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.996	5.20	1265.60	1265.60	.00	1267.22	1.62	2.71	.21	1268.70
2048.0	.0	2048.0	.0	.0	200.3	.0	145.7	48.0	1267.00
.43	.00	10.22	.00	.000	.035	.000	.000	1260.40	9974.00
.012776	400.	400.	400.	3	19	0	.00	62.99	10036.99

CCHV= .300 CEHV= .500
*SECNO 2.072
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

Q @ X1 = 2.072 TO X1 = 2.159 EQUALS Q AT CP3 (DOWNSTREAM OF DIVERSION
Q = 1755 CFS AT OLIVE AVENUE)

2.072	5.62	1269.12	.00	.00	1269.37	.25	1.74	.41	1271.10
1755.0	.0	981.6	773.4	.0	202.5	308.1	149.0	49.4	1266.00
.46	.00	4.85	2.51	.000	.035	.040	.000	1263.50	9972.17
.001963	400.	400.	400.	3	0	0	.00	246.41	10218.58

CCHV= .300 CEHV= .500
*SECNO 2.159

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1275.60 ELREA= 1275.60

OLIVE AVENUE
NEXT THREE UPSTREAM CROSS SECTIONS EXTENDED - APPROXIMATELY 490 CFS
BREAKS OUT EAST OVER BEARDSLEY CANAL.

FLOODPLAIN LIMITS BASED UPON UPSTREAM FLOW COMING OVER THE TOP OF
OLIVE AVENUE.

2.159	7.46	1274.66	1274.66	.00	1278.12	3.46	1.46	1.61	1271.20
1755.0	.0	1755.0	.0	.0	117.6	.0	152.3	50.8	1271.20
.47	.00	14.92	.00	.000	.024	.000	.000	1267.20	9991.00
.005985	440.	460.	460.	20	11	0	.00	17.20	10008.20

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.50	2.50	.00	10.00	.10	104.00	.56	1268.20	1267.80

*SECNO 2.167
6870 D.S. ENERGY OF 1278.12 IS HIGHER THAN COMPUTED ENERGY OF 1277.18
3280 CROSS SECTION 2.17 EXTENDED 1.10 FEET

3301 HV CHANGED MORE THAN HVINS

[illegible]62 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 13.57

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD	WEIRLN

						AREA			
1285.51	1282.47	.36	1164.	1083.	104.	104.	1275.60	1275.90	571.

Q @ X1 = 2.107 TO X1 = 2.267 EQUALS Q AT CP3 (UPSTREAM OF DIVERSION
Q = 2245 CFS AT OLIVE AVE.)

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS. THIS WILL
PRECLUDE ESTABLISHING A FLOODWAY FOR NEXT THREE UPSTEAM CROSS
SECTIONS. NO VOLUME LOSS IS REQUIRED BECAUSE OF BREAKOUT.

2.167	10.50	1278.10	.00	.00	1278.12	.02	.00	.00	1271.60
2245.0	332.5	233.4	1679.2	294.5	155.6	1583.0	153.3	51.1	1271.60
.48	1.13	1.50	1.06	.024	.024	.024	.000	1267.60	9910.00
.000053	40.	40.	40.	2	0	6	.00	632.85	10542.85

*SECNO 2.186
3280 CROSS SECTION 2.19 EXTENDED 1.10 FEET

2.186	8.60	1278.10	.00	.00	1278.12	.03	.00	.00	1272.00
2245.0	132.7	1411.2	701.1	139.4	915.5	897.0	157.9	52.5	1272.00
.50	.95	1.54	.78	.024	.024	.024	.000	1269.50	9910.00
.000041	100.	100.	100.	2	0	0	.00	608.19	10518.19

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 2.267
3280 CROSS SECTION 2.27 EXTENDED .26 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .15

NEXT FOUR UPSTREAM CROSS SECTIONS ARE AT THE CONFLUENCE WITH
WASH "1B" - WATERFALL WASH

2.267	6.96	1278.06	.00	.00	1278.22	.16	.05	.04	1277.80
2245.0	.0	1005.1	1239.9	.0	224.0	756.8	172.0	57.2	1274.00
.54	.00	4.49	1.64	.000	.035	.070	.000	1271.10	9970.00
.001774	410.	430.	415.	2	0	0	.00	382.22	10352.22

*SECNO 2.330

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

Q @ X1 = 2.330 TO X1 = 2.640 EQUALS Q AT I1CP3.
Q = 997 CFS

2.330	5.28	1278.58	.00	.00	1278.73	.15	.51	.00	1280.30
997.0	.0	805.0	192.0	.0	232.4	203.7	177.4	59.6	1276.00
.57	.00	3.46	.94	.000	.035	.070	.000	1273.30	9977.12
.001188	330.	330.	330.	2	0	0	.00	233.30	10210.42

1490 NH CARD USED
*SECNO 2.392

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.392	4.27	1279.67	1279.67	.00	1280.20	.53	.89	.11	1282.70
997.0	.0	536.5	460.5	.0	79.0	102.7	179.7	61.1	1280.00
.59	.00	6.79	4.49	.000	.035	.035	.000	1275.40	9986.63
.011045	330.	330.	330.	20	14	0	.00	159.31	10207.46

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

0 NH CARD USED
*SECNO 2.468

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

2.468	3.34	1283.04	.00	.00	1283.20	.16	2.96	.04	1285.80
997.0	.0	374.0	623.0	.0	97.2	225.3	182.0	63.1	1283.10
.62	.00	3.85	2.77	.000	.035	.050	.000	1279.70	9983.59
.005312	400.	400.	400.	4	0	0	.00	273.66	10260.37

1490 NH CARD USED
*SECNO 2.553

3301 HV CHANGED MORE THAN HVINS

2.553	3.61	1285.71	1285.54	.00	1286.42	.72	3.05	.17	1288.70
997.0	.0	902.0	95.0	.0	126.8	48.7	184.6	65.1	1284.00
.64	.00	7.11	1.95	.000	.035	.070	.000	1282.10	9976.47
.008961	450.	450.	450.	6	8	0	.00	118.87	10095.33

V= .100 CEHV= .300
CNO 2.640

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.23

2.640	4.44	1287.34	.00	.00	1287.41	.06	.92	.07	1288.00
997.0	.0	515.1	481.9	.0	204.0	361.7	188.5	66.7	1284.30
.71	.00	2.53	1.33	.000	.035	.070	.000	1282.90	9969.91
.000858	460.	460.	460.	4	0	0	.00	196.89	10166.81

*SECNO 2.741

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

Q @ X1 = 2.741 TO X1 = 3.081 EQUALS Q AT SUB-3A + Q AT SUB-3/2
Q = 296 + 828/2 = 710 CFS

2.741	4.06	1287.96	.00	.00	1288.22	.26	.76	.06	1292.10
710.0	.0	481.9	228.1	.0	99.1	138.3	193.4	68.9	1288.40
.75	.00	4.86	1.65	.000	.035	.070	.000	1283.90	9985.09
.004035	530.	530.	530.	3	0	0	.00	153.09	10159.82

*SECNO 2.826

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

2.826	3.42	1289.12	.00	.00	1289.25	.12	1.01	.01	1291.00
710.0	.0	589.6	120.4	.0	191.8	120.9	196.3	70.6	1287.00
.79	.00	3.07	1.00	.000	.035	.070	.000	1285.70	9983.29
.001423	450.	450.	450.	2	0	0	.00	173.76	10157.05

*SECNO 2.907

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.907	3.28	1294.58	1294.58	.00	1295.49	.91	1.38	.24	1294.00
710.0	2.8	702.7	4.5	1.3	91.4	4.2	198.3	71.7	1294.00
.81	2.10	7.69	1.06	.035	.035	.070	.000	1291.30	9980.41
.012879	430.	430.	430.	20	8	0	.00	64.13	10044.54

1490 NH CARD USED
*SECNO 3.009
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.009	4.68	1301.28	1301.28	.00	1302.17	.89	6.11	.00	1300.00

710.0	28.5	639.6	41.8	9.1	80.3	26.5	199.6	72.7	1300.00
.83	3.14	7.96	1.58	.035	.035	.070	.000	1296.60	9980.80
.010018	540.	540.	540.	4	14	0	.00	85.74	10066.54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 3.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.54

3.081	5.72	1303.22	.00	.00	1303.45	.23	1.21	.07	1302.00
710.0	6.6	697.8	5.6	6.2	180.0	9.4	201.0	73.4	1302.00
.86	1.05	3.88	.60	.040	.035	.070	.000	1297.50	9974.79
.001551	380.	380.	380.	4	0	0	.00	75.52	10050.31

*SECNO 3.167

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

Q @ X1 = 3.167 TO X1 = 3.540 EQUALS Q AT SUB-3A
Q = 296 CFS

3.167	4.13	1303.93	.00	.00	1303.99	.07	.52	.02	1306.00
296.0	.0	296.0	.0	.0	143.1	.0	202.7	74.0	1304.00
.92	.00	2.07	.00	.000	.035	.000	.000	1299.80	9980.18
.000670	450.	450.	370.	3	0	0	.00	54.28	10034.46

*SECNO 3.214
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.214	1.50	1304.20	1304.20	.00	1304.65	.44	.48	.11	1304.00
296.0	.0	295.9	.1	.0	55.5	.2	203.3	74.4	1304.00
.93	.05	5.33	.64	.040	.035	.070	.000	1302.70	9949.66
.019530	230.	250.	280.	20	22	0	.00	66.86	10016.53

*SECNO 3.301

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.89

3.301	2.53	1308.63	.00	.00	1308.96	.33	4.30	.01	1308.00
296.0	1.2	291.2	3.6	1.0	63.0	5.0	203.9	75.0	1308.00
.96	1.25	4.62	.73	.040	.035	.070	.000	1306.10	9986.85
.005459	460.	460.	460.	6	0	0	.00	53.90	10040.75

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.383

3.383	2.52	1311.62	.00	.00	1312.14	.52	3.13	.06	1312.00
296.0	.0	296.0	.0	.0	51.3	.0	204.5	75.4	1312.00
.98	.00	5.77	.00	.000	.035	.000	.000	1309.10	9985.95
.010149	430.	430.	430.	3	0	0	.00	32.16	10018.11

*SECNO 3.460

3.460	2.93	1315.53	.00	.00	1316.11	.58	3.95	.02	1320.40
296.0	.0	296.0	.0	.0	48.5	.0	205.0	75.7	1320.00
1.00	.00	6.11	.00	.000	.035	.000	.000	1312.60	9988.73
.009160	410.	410.	410.	4	0	0	.00	25.09	10013.82

*SECNO 3.540

3.540	2.46	1318.76	.00	.00	1319.01	.25	2.87	.03	1321.30
296.0	.0	296.0	.0	.0	74.5	.0	205.6	76.1	1320.00
1.03	.00	3.97	.00	.000	.035	.000	.000	1316.30	9993.35
.005290	420.	420.	420.	4	0	0	.00	50.44	10043.80

*SECNO 3.610

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .48

Q @ X1 = 3.610 TO X1 = 3.678 EQUALS Q AT SUB-3A/2
Q = 296/2 = 148 CFS

3.610	2.47	1320.77	.00	.00	1321.02	.24	2.01	.00	1324.00
148.0	.0	137.8	10.2	.0	33.6	12.0	206.1	76.5	1320.00
1.05	.00	4.10	.85	.000	.035	.070	.000	1318.30	9987.09
.005704	370.	370.	370.	2	0	0	.00	53.92	10041.01

*SECNO 3.678

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.25

3.678	2.94	1321.74	.00	.00	1321.81	.07	.78	.02	1330.00
148.0	.0	148.0	.0	.0	69.0	.0	206.6	76.9	1324.00
1.10	.00	2.15	.00	.000	.035	.000	.000	1318.80	9984.76
.001129	360.	360.	360.	3	0	0	.00	36.79	10021.55

PROFILE FOR STREAM WASH "1" - BEARDSLEY CAN

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

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ELEVATION  1189.    1209.    1229.    1249.    1269.    1289.    1309.    1329.    1349.    1369.
  SECNO   CUMDIS

.00        0.  ILE   M  .        .        .        .        .        .        .        .        .        .
          50.  ILE  M   .        .        .        .        .        .        .        .        .        .
         100.  IRWE M   .        .        .        .        .        .        .        .        .        .
         150.  CIWE M   .        .        .        .        .        .        .        .        .        .
         200.  CIWE M   .        .        .        .        .        .        .        .        .        .
         250.  CILE M   .        .        .        .        .        .        .        .        .        .
         300.  CILE M   .        .        .        .        .        .        .        .        .        .
         350.  CILE M   .        .        .        .        .        .        .        .        .        .
.07      400.  .ILE M   .        .        .        .        .        .        .        .        .        .
         450.  CI WE M  .        .        .        .        .        .        .        .        .        .
         500.  C IWE M  .        .        .        .        .        .        .        .        .        .
         550.  C IWE M  .        .        .        .        .        .        .        .        .        .
         600.  C ILE  M .        .        .        .        .        .        .        .        .        .
         650.  C ILE  M .        .        .        .        .        .        .        .        .        .
         700.  C I E  M .        .        .        .        .        .        .        .        .        .
         750.  C I E   M.        .        .        .        .        .        .        .        .        .
         800.  C I WE  M.        .        .        .        .        .        .        .        .        .
.16      850.  C I WE  M.        .        .        .        .        .        .        .        .        .
         900.  C I RE  M.        .        .        .        .        .        .        .        .        .
         950.  C I  E  M.        .        .        .        .        .        .        .        .        .
        1000.  C  I E M .        .        .        .        .        .        .        .        .        .
        1050.  C  I E M .        .        .        .        .        .        .        .        .        .
        1100.  C  I ELM .        .        .        .        .        .        .        .        .        .
        1150.  C  I EL  .        .        .        .        .        .        .        .        .        .
        1200.  C  I WE  .        .        .        .        .        .        .        .        .        .
.23     1250.  C  I WE  .        .        .        .        .        .        .        .        .        .
        1300.  C  I WEL .        .        .        .        .        .        .        .        .        .
        1350.  C  I  EL .        .        .        .        .        .        .        .        .        .
        1400.  C  I  EL .        .        .        .        .        .        .        .        .        .
        1450.  C   I ELM.        .        .        .        .        .        .        .        .        .
        1500.  C   I WEL.        .        .        .        .        .        .        .        .        .
        1550.  C   I WELM.       .        .        .        .        .        .        .        .        .
        1600.  C   I WEL M       .        .        .        .        .        .        .        .        .
.31     1650.  .   I WEL M       .        .        .        .        .        .        .        .        .
        1700.  .   I  EL M       .        .        .        .        .        .        .        .        .
        1750.  .    I WELM       .        .        .        .        .        .        .        .        .
        1800.  .    I WELM       .        .        .        .        .        .        .        .        .
        1850.  .    I  WEM       .        .        .        .        .        .        .        .        .
        1900.  .    I  WEM       .        .        .        .        .        .        .        .        .
        1950.  .     I WEM       .        .        .        .        .        .        .        .        .
        2000.  .     I  WE       .        .        .        .        .        .        .        .        .
        2050.  .     I  WE       .        .        .        .        .        .        .        .        .
.39     2100.  .     I  WE       .        .        .        .        .        .        .        .        .
        2150.  C     I  LWE      .        .        .        .        .        .        .        .        .
        2200.  C      I  WE      .        .        .        .        .        .        .        .        .
        2250.  C      I  WE      .        .        .        .        .        .        .        .        .
        2300.  C      I  WEM     .        .        .        .        .        .        .        .        .
        2350.  C      I  WEM     .        .        .        .        .        .        .        .        .
        2400.  C      I  LE M    .        .        .        .        .        .        .        .        .
        2450.  C       I LWE M   .        .        .        .        .        .        .        .        .
.47     2500.  C       I LWE M   .        .        .        .        .        .        .        .        .
        2550.  C       I LWE M   .        .        .        .        .        .        .        .        .
        2600.  C       I RWE M   .        .        .        .        .        .        .        .        .
        2650.  C       I RWE M   .        .        .        .        .        .        .        .        .
        2700.  C       I RLE M   .        .        .        .        .        .        .        .        .
        2750.  C       I RLE M   .        .        .        .        .        .        .        .        .
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```
      2800.  C      I RLE M    .         .         .         .         .         .         .         .         .
      2850.  C       IRLE M    .         .         .         .         .         .         .         .         .
 .54  2900.  C       IRLWEM    .         .         .         .         .         .         .         .         .
      2950.  C       IRLWEM    .         .         .         .         .         .         .         .         .
      3000.  C       I.LWE M   .         .         .         .         .         .         .         .         .
      3050.  C       I.LWE M   .         .         .         .         .         .         .         .         .
      3100.  C       I.L E M   .         .         .         .         .         .         .         .         .
      3150.  C       I.L E M   .         .         .         .         .         .         .         .         .
      3200.  C       I.L E M   .         .         .         .         .         .         .         .         .
      3250.  C       I.L E M   .         .         .         .         .         .         .         .         .
 .62  3300.  C       I.L E M   .         .         .         .         .         .         .         .         .
      3350.  C       I.L E M   .         .         .         .         .         .         .         .         .
      3400.  C       I. LWEM   .         .         .         .         .         .         .         .         .
      3450.  C        I LWEM   .         .         .         .         .         .         .         .         .
      3500.  C        I LWEM   .         .         .         .         .         .         .         .         .
      3550.  C        I LWEM   .         .         .         .         .         .         .         .         .
      3600.  C        I L EM   .         .         .         .         .         .         .         .         .
      3650.  C        I L WE   .         .         .         .         .         .         .         .         .
 .70  3700.  .        I L WE   .         .         .         .         .         .         .         .         .
      3750.  C        I L WE   .         .         .         .         .         .         .         .         .
      3800.  C        I  LWE   .         .         .         .         .         .         .         .         .
      3850.  C        .I LWE   .         .         .         .         .         .         .         .         .
      3900.  C        .I L E   .         .         .         .         .         .         .         .         .
      3950.  C        .I L E   .         .         .         .         .         .         .         .         .
      4000.  C        .I L E   .         .         .         .         .         .         .         .         .
      4050.  C        .I L E   .         .         .         .         .         .         .         .         .
 .77  4100.  C        .I L E   .         .         .         .         .         .         .         .         .
      4150.  C        .I L E   .         .         .         .         .         .         .         .         .
      4200.  C        .I L WE  .         .         .         .         .         .         .         .         .
      4250.  C        .I L WE  .         .         .         .         .         .         .         .         .
      4300.  C        . IL WE  .         .         .         .         .         .         .         .         .
      4350.  C        . IL WE  .         .         .         .         .         .         .         .         .
      4400.  C        . IL WE  .         .         .         .         .         .         .         .         .
      4450.  C        . IL WE  .         .         .         .         .         .         .         .         .
 .85  4500.  C        . IL WE  .         .         .         .         .         .         .         .         .
      4550.  C        . I LWE  .         .         .         .         .         .         .         .         .
      4600.  C        . I L E  .         .         .         .         .         .         .         .         .
      4650.  C        . I L E  .         .         .         .         .         .         .         .         .
      4700.  C        .  IL E  .         .         .         .         .         .         .         .         .
      4750.  C        .  I LE  .         .         .         .         .         .         .         .         .
      4800.  C        .  I LWE .         .         .         .         .         .         .         .         .
      4850.  C        .  I LWE .         .         .         .         .         .         .         .         .
 .92  4900.  .        .  I LWE .         .         .         .         .         .         .         .         .
      4950.  .        .  I  WE .         .         .         .         .         .         .         .         .
      5000.  .        .  I  LE .         .         .         .         .         .         .         .         .
      5050.  .        .   I LWE .        .         .         .         .         .         .         .         .
      5100.  .        .   I LWE .        .         .         .         .         .         .         .         .
      5150.  .        .   I  WE .        .         .         .         .         .         .         .         .
      5200.  .        .   I  LWE.        .         .         .         .         .         .         .         .
      5250.  .        .   I  LWE.        .         .         .         .         .         .         .         .
 1.00 5300.  .        .   I  LWE.        .         .         .         .         .         .         .         .
      5350.  C        .    I  WME        .         .         .         .         .         .         .         .
      5400.  C        .    I  LWE        .         .         .         .         .         .         .         .
      5450.  C        .    I  LWE        .         .         .         .         .         .         .         .
      5500.  C        .    I  LWE        .         .         .         .         .         .         .         .
      5550.  C        .    I   WE        .         .         .         .         .         .         .         .
      5600.  C        .    I   WEM       .         .         .         .         .         .         .         .
      5650.  C        .     I  LEM       .         .         .         .         .         .         .         .
 1.07 5700.  C        .     I  LWE       .         .         .         .         .         .         .         .
      5750.  C        .     I  LWE       .         .         .         .         .         .         .         .
      5800.  C        .     I  L.EM      .         .         .         .         .         .         .         .
      5850.  C        .     I  L.EM      .         .         .         .         .         .         .         .
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      5900.  C        .      I L.WE      .        .        .        .        .        .        .        .
      5950.  C        .      I L. E      .        .        .        .        .        .        .        .
      6000.  C        .      I L. E      .        .        .        .        .        .        .        .
      6050.  C        .      I L. WE     .        .        .        .        .        .        .        .
1.15  6100.  .        .      I L.  E     .        .        .        .        .        .        .        .
1.16  6150.  C        .       IL.  ME    .        .        .        .        .        .        .        .
      6200.  C        .       IRL  ME    .        .        .        .        .        .        .        .
      6250.  C        .       I L  MWE   .        .        .        .        .        .        .        .
      6300.  C        .       I RL MWE   .        .        .        .        .        .        .        .
      6350.  C        .       I RL MWE   .        .        .        .        .        .        .        .
      6400.  C        .        IR LMWE   .        .        .        .        .        .        .        .
      6450.  C        .        I.RL WE   .        .        .        .        .        .        .        .
      6500.  C        .        I.R LWE   .        .        .        .        .        .        .        .
1.24  6550.  C        .        I.R LWE   .        .        .        .        .        .        .        .
      6600.  C        .        I.R LWE   .        .        .        .        .        .        .        .
      6650.  C        .         I R WE   .        .        .        .        .        .        .        .
      6700.  C        .         I R LE   .        .        .        .        .        .        .        .
      6750.  C        .         I R LE   .        .        .        .        .        .        .        .
      6800.  C        .         I R LE   .        .        .        .        .        .        .        .
      6850.  C        .         I R LE   .        .        .        .        .        .        .        .
      6900.  C        .         I R LE   .        .        .        .        .        .        .        .
1.31  6950.  C        .         .I RLE   .        .        .        .        .        .        .        .
      7000.  C        .         .I RLE   .        .        .        .        .        .        .        .
      7050.  C        .         .I R E   .        .        .        .        .        .        .        .
      7100.  C        .         .I R EM  .        .        .        .        .        .        .        .
      7150.  C        .         . I RWE  .        .        .        .        .        .        .        .
      7200.  C        .         . I RWE  .        .        .        .        .        .        .        .
      7250.  C        .         . I RWE  .        .        .        .        .        .        .        .
      7300.  C        .         . I RLE  .        .        .        .        .        .        .        .
1.39  7350.  .        .         .  IRLEM .        .        .        .        .        .        .        .
      7400.  .        .         .  I RWE .        .        .        .        .        .        .        .
      7450.  .        .         .  I RWE .        .        .        .        .        .        .        .
      7500.  .        .         .  I  LEM .       .        .        .        .        .        .        .
      7550.  .        .         .  I  RWE .       .        .        .        .        .        .        .
      7600.  .        .         .  I  RWE .       .        .        .        .        .        .        .
      7650.  .        .         .   I  WEM.       .        .        .        .        .        .        .
      7700.  .        .         .   I  RWE.       .        .        .        .        .        .        .
1.47  7750.  .        .         .   I  RWE.       .        .        .        .        .        .        .
      7800.  C        .         .   I   WE.       .        .        .        .        .        .        .
      7850.  C        .         .   I   WE.       .        .        .        .        .        .        .
      7900.  C        .         .    I  REM       .        .        .        .        .        .        .
      7950.  C        .         .    I  RWE       .        .        .        .        .        .        .
      8000.  C        .         .    I  RWE       .        .        .        .        .        .        .
      8050.  C        .         .    I  RWE       .        .        .        .        .        .        .
      8100.  C        .         .    I  RWE       .        .        .        .        .        .        .
      8150.  C        .         .     I RLE       .        .        .        .        .        .        .
      8200.  C        .         .     I RLE       .        .        .        .        .        .        .
1.56  8250.  C        .         .     I RLE       .        .        .        .        .        .        .
      8300.  C        .         .     I RLE       .        .        .        .        .        .        .
      8350.  C        .         .     I RLE       .        .        .        .        .        .        .
      8400.  C        .         .      I LWE      .        .        .        .        .        .        .
      8450.  C        .         .      I LWE      .        .        .        .        .        .        .
      8500.  C        .         .      I LWE      .        .        .        .        .        .        .
1.62  8550.  C        .         .      I LME      .        .        .        .        .        .        .
      8600.  C        .         .       ILME      .        .        .        .        .        .        .
      8650.  C        .         .       IRLE      .        .        .        .        .        .        .
      8700.  C        .         .       IRLE      .        .        .        .        .        .        .
      8750.  C        .         .       IRLE      .        .        .        .        .        .        .
      8800.  C        .         .       I LE      .        .        .        .        .        .        .
      8850.  C        .         .        ILE      .        .        .        .        .        .        .
      8900.  C        .         .        ILE      .        .        .        .        .        .        .
1.69  8950.  C        .         .        ILE      .        .        .        .        .        .        .
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```
     9000.  C     .     .    IRE     .     .     .     .     .     .     .
     9050.  C     .     .     IEM    .     .     .     .     .     .     .
     9100.  C     .     .     IEM    .     .     .     .     .     .     .
     9150.  C     .     .     IWE    .     .     .     .     .     .     .
     9200.  C     .     .     IRE    .     .     .     .     .     .     .
     9250.  C     .     .     IRE    .     .     .     .     .     .     .
     9300.  C     .     .     I E    .     .     .     .     .     .     .
1.77 9350.  C     .     .     .IEM   .     .     .     .     .     .     .
     9400.  C     .     .     .IWE   .     .     .     .     .     .     .
     9450.  C     .     .     .IRE   .     .     .     .     .     .     .
     9500.  C     .     .     .I WE  .     .     .     .     .     .     .
     9550.  C     .     .     .I RE  .     .     .     .     .     .     .
     9600.  C     .     .     .I RWE .     .     .     .     .     .     .
     9650.  C     .     .     .I  WE .     .     .     .     .     .     .
     9700.  C     .     .     .I  RE .     .     .     .     .     .     .
1.84 9750.  .     .     .     . I RWE .     .     .     .     .     .     .
     9800.  C     .     .     . I  WE .     .     .     .     .     .     .
     9850.  C     .     .     . I  WE .     .     .     .     .     .     .
     9900.  C     .     .     . I  RE .     .     .     .     .     .     .
     9950.  C     .     .     . I  RWE .     .     .     .     .     .     .
    10000.  C     .     .     . I   WE .     .     .     .     .     .     .
    10050.  C     .     .     .  I  WE .     .     .     .     .     .     .
    10100.  C     .     .     .  I  WE .     .     .     .     .     .     .
1.92 10150. C     .     .     .  I  LE .     .     .     .     .     .     .
    10200.  C     .     .     .  I   E .     .     .     .     .     .     .
    10250.  C     .     .     .   I  WE .     .     .     .     .     .     .
    10300.  C     .     .     .   I  WE .     .     .     .     .     .     .
    10350.  C     .     .     .   I  WE .     .     .     .     .     .     .
    10400.  C     .     .     .    I  E .     .     .     .     .     .     .
    10450.  C     .     .     .    I  EL.     .     .     .     .     .     .
    10500.  C     .     .     .    I  WE.     .     .     .     .     .     .
2.00 10550. .     .     .     .     I WEL     .     .     .     .     .     .
    10600.  C     .     .     .     I WEL     .     .     .     .     .     .
    10650.  C     .     .     .     I  EL     .     .     .     .     .     .
    10700.  C     .     .     .     I  EL     .     .     .     .     .     .
    10750.  C     .     .     .     I  EL     .     .     .     .     .     .
    10800.  C     .     .     .     I RWE     .     .     .     .     .     .
    10850.  C     .     .     .      IRWEL    .     .     .     .     .     .
    10900.  C     .     .     .      IR EL    .     .     .     .     .     .
2.07 10950. C     .     .     .      IR EL    .     .     .     .     .     .
    11000.  C     .     .     .      I REL    .     .     .     .     .     .
    11050.  C     .     .     .      I RWE    .     .     .     .     .     .
    11100.  C     .     .     .       IR.E    .     .     .     .     .     .
    11150.  C     .     .     .       IR.WE   .     .     .     .     .     .
    11200.  C     .     .     .       I RWE   .     .     .     .     .     .
    11250.  C     .     .     .       I RLWE  .     .     .     .     .     .
    11300.  C     .     .     .       I RLWE  .     .     .     .     .     .
    11350.  C     .     .     .        I.LWME .     .     .     .     .     .
2.16 11400. .     .     .     .        I.L WE .     .     .     .     .     .
2.17 11450. C     .     .     .        I.L  E .     .     .     .     .     .
    11500.  C     .     .     .         IL  E .     .     .     .     .     .
2.19 11550. C     .     .     .         IL  E .     .     .     .     .     .
    11600.  C     .     .     .         IRL E .     .     .     .     .     .
    11650.  C     .     .     .         I L E .     .     .     .     .     .
    11700.  C     .     .     .         I L E .     .     .     .     .     .
    11750.  C     .     .     .         I RLE .     .     .     .     .     .
    11800.  C     .     .     .         .IRLE .     .     .     .     .     .
    11850.  C     .     .     .         .IRLE .     .     .     .     .     .
    11900.  C     .     .     .         .IR E .     .     .     .     .     .
    11950.  C     .     .     .         .IR E .     .     .     .     .     .
2.27 12000. C     .     .     .         .IR E .     .     .     .     .     .
    12050.  C     .     .     .         .IR E .     .     .     .     .     .
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```
     12100.  C     .     .     .     .I REL   .     .     .     .     .     .
     12150.  C     .     .     .     .I RWE   .     .     .     .     .     .
     12200.  C     .     .     .     . IRWE   .     .     .     .     .     .
     12250.  C     .     .     .     . IR E   .     .     .     .     .     .
2.33 12300.  C     .     .     .     . IR E   .     .     .     .     .     .
     12350.  C     .     .     .     . I REL  .     .     .     .     .     .
     12400.  C     .     .     .     . I REL  .     .     .     .     .     .
     12450.  C     .     .     .     . I REL  .     .     .     .     .     .
     12500.  C     .     .     .     .  I EL  .     .     .     .     .     .
     12550.  C     .     .     .     .  I EL  .     .     .     .     .     .
     12600.  C     .     .     .     .  I EML .     .     .     .     .     .
2.39 12650.  .     .     .     .     .  I EML .     .     .     .     .     .
     12700.  C     .     .     .     .  I WEL .     .     .     .     .     .
     12750.  C     .     .     .     .   I EL .     .     .     .     .     .
     12800.  C     .     .     .     .   I EL .     .     .     .     .     .
     12850.  C     .     .     .     .   I EL .     .     .     .     .     .
     12900.  C     .     .     .     .   I EML.     .     .     .     .     .
     12950.  C     .     .     .     .    IWEL.     .     .     .     .     .
     13000.  C     .     .     .     .    I EL.     .     .     .     .     .
2.47 13050.  C     .     .     .     .    I EL.     .     .     .     .     .
     13100.  C     .     .     .     .    I EL.     .     .     .     .     .
     13150.  C     .     .     .     .    I EML.    .     .     .     .     .
     13200.  C     .     .     .     .     IEML.    .     .     .     .     .
     13250.  C     .     .     .     .     IWEL.    .     .     .     .     .
     13300.  C     .     .     .     .     IREL.    .     .     .     .     .
     13350.  C     .     .     .     .     IREL.    .     .     .     .     .
     13400.  C     .     .     .     .     IREL.    .     .     .     .     .
     13450.  C     .     .     .     .     IREL.    .     .     .     .     .
2.55 13500.  .     .     .     .     .     IRWEL    .     .     .     .     .
     13550.  C     .     .     .     .     IRWEL    .     .     .     .     .
     13600.  C     .     .     .     .     IRWEL    .     .     .     .     .
     13650.  C     .     .     .     .     IRWEL    .     .     .     .     .
     13700.  C     .     .     .     .      I EM    .     .     .     .     .
     13750.  C     .     .     .     .      I E.M   .     .     .     .     .
     13800.  C     .     .     .     .      I E.M   .     .     .     .     .
     13850.  C     .     .     .     .      I E.M   .     .     .     .     .
     13900.  C     .     .     .     .      I E.M   .     .     .     .     .
2.64 13950.  C     .     .     .     .      I E.M   .     .     .     .     .
     14000.  C     .     .     .     .      IRE.M   .     .     .     .     .
     14050.  C     .     .     .     .      IRELM   .     .     .     .     .
     14100.  C     .     .     .     .      IRELM   .     .     .     .     .
     14150.  C     .     .     .     .      IRELM   .     .     .     .     .
     14200.  C     .     .     .     .      IRELM   .     .     .     .     .
     14250.  C     .     .     .     .      I ELM   .     .     .     .     .
     14300.  C     .     .     .     .      I E.L   .     .     .     .     .
     14350.  C     .     .     .     .      I E.L   .     .     .     .     .
     14400.  C     .     .     .     .      I E.L   .     .     .     .     .
     14450.  C     .     .     .     .      I E.L   .     .     .     .     .
2.74 14500.  C     .     .     .     .      I ERL   .     .     .     .     .
     14550.  C     .     .     .     .      I E.L   .     .     .     .     .
     14600.  C     .     .     .     .      I WEL   .     .     .     .     .
     14650.  C     .     .     .     .       IWEL   .     .     .     .     .
     14700.  C     .     .     .     .       IREL   .     .     .     .     .
     14750.  C     .     .     .     .       IREL   .     .     .     .     .
     14800.  C     .     .     .     .       IREL   .     .     .     .     .
     14850.  C     .     .     .     .       IREL   .     .     .     .     .
     14900.  C     .     .     .     .       IREL   .     .     .     .     .
2.83 14950.  C     .     .     .     .       IREL   .     .     .     .     .
     15000.  C     .     .     .     .       IREL   .     .     .     .     .
     15050.  C     .     .     .     .        IWE   .     .     .     .     .
     15100.  C     .     .     .     .        IREM  .     .     .     .     .
     15150.  C     .     .     .     .        IREM  .     .     .     .     .
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     15200.  C     .     .     .     .     IWE     .     .     .     .     .
     15250.  C     .     .     .     .     IREM    .     .     .     .     .
     15300.  C     .     .     .     .     I EM    .     .     .     .     .
2.91 15350.  .     .     .     .     .     .ILE    .     .     .     .     .
     15400.  .     .     .     .     .     .I EM   .     .     .     .     .
     15450.  .     .     .     .     .     .I WE   .     .     .     .     .
     15500.  .     .     .     .     .     . ILE   .     .     .     .     .
     15550.  .     .     .     .     .     . ILE   .     .     .     .     .
     15600.  .     .     .     .     .     . I WE  .     .     .     .     .
     15650.  .     .     .     .     .     . I WE  .     .     .     .     .
     15700.  .     .     .     .     .     .  ILE  .     .     .     .     .
     15750.  .     .     .     .     .     .  I WE .     .     .     .     .
     15800.  .     .     .     .     .     .  I WE .     .     .     .     .
     15850.  .     .     .     .     .     .  I LE .     .     .     .     .
3.01 15900.  .     .     .     .     .     .   ILE .     .     .     .     .
     15950.  C     .     .     .     .     .   ILE .     .     .     .     .
     16000.  C     .     .     .     .     .   I WE .     .     .     .     .
     16050.  C     .     .     .     .     .   I WE .     .     .     .     .
     16100.  C     .     .     .     .     .   I WE .     .     .     .     .
     16150.  C     .     .     .     .     .   I LE .     .     .     .     .
     16200.  C     .     .     .     .     .   I LE .     .     .     .     .
     16250.  C     .     .     .     .     .   I LE .     .     .     .     .
3.08 16300.  C     .     .     .     .     .   I LE .     .     .     .     .
     16350.  C     .     .     .     .     .   I RE .     .     .     .     .
     16400.  C     .     .     .     .     .   I  E .     .     .     .     .
     16450.  C     .     .     .     .     .   I  EM.     .     .     .     .
     16500.  C     .     .     .     .     .    I EM.     .     .     .     .
     16550.  C     .     .     .     .     .    I EM.     .     .     .     .
     16600.  C     .     .     .     .     .    I EL.     .     .     .     .
     16650.  C     .     .     .     .     .    I EL.     .     .     .     .
     16700.  C     .     .     .     .     .    I EL.     .     .     .     .
3.17 16750.  C     .     .     .     .     .    I EL.     .     .     .     .
     16800.  C     .     .     .     .     .    I ELM.    .     .     .     .
     16850.  C     .     .     .     .     .     IEL M    .     .     .     .
     16900.  C     .     .     .     .     .     IEL M    .     .     .     .
     16950.  C     .     .     .     .     .     IWE .M   .     .     .     .
3.21 17000.  .     .     .     .     .     .      WE . M  .     .     .     .
     17050.  C     .     .     .     .     .      IE . M  .     .     .     .
     17100.  C     .     .     .     .     .      IE . M  .     .     .     .
     17150.  C     .     .     .     .     .      IE . M  .     .     .     .
     17200.  C     .     .     .     .     .      IWE. M  .     .     .     .
     17250.  C     .     .     .     .     .       IE. M  .     .     .     .
     17300.  C     .     .     .     .     .       IE. M  .     .     .     .
     17350.  C     .     .     .     .     .       IE. M  .     .     .     .
     17400.  C     .     .     .     .     .       IE. M  .     .     .     .
3.30 17450.  C     .     .     .     .     .       ILE M  .     .     .     .
     17500.  C     .     .     .     .     .        IE M  .     .     .     .
     17550.  C     .     .     .     .     .        IE  M .     .     .     .
     17600.  C     .     .     .     .     .        IE  M .     .     .     .
     17650.  C     .     .     .     .     .        IWE M .     .     .     .
     17700.  C     .     .     .     .     .        IWE  M .     .     .     .
     17750.  C     .     .     .     .     .        I.E  M .     .     .     .
     17800.  C     .     .     .     .     .         IE  M .     .     .     .
     17850.  C     .     .     .     .     .         IE   M .     .     .     .
3.38 17900.  C     .     .     .     .     .         IE   M .     .     .     .
     17950.  C     .     .     .     .     .         IWE  M .     .     .     .
     18000.  C     .     .     .     .     .         I E  M .     .     .     .
     18050.  C     .     .     .     .     .         I EL M .     .     .     .
     18100.  C     .     .     .     .     .         .IEL M .     .     .     .
     18150.  C     .     .     .     .     .         .IWELM .     .     .     .
     18200.  C     .     .     .     .     .         .I ELM .     .     .     .
     18250.  C     .     .     .     .     .         .I E L .     .     .     .
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    3.46 18300.  C        .         .         .         .         .         . IE RL   .         .         .         .
         18350.  C        .         .         .         .         .         . IWERL   .         .         .         .
         18400.  C        .         .         .         .         .         . IWERL   .         .         .         .
         18450.  C        .         .         .         .         .         . I ERL   .         .         .         .
         18500.  C        .         .         .         .         .         . I ERL   .         .         .         .
         18550.  C        .         .         .         .         .         .  IERL   .         .         .         .
         18600.  C        .         .         .         .         .         .  IERL   .         .         .         .
         18650.  C        .         .         .         .         .         .  IWEL   .         .         .         .
    3.54 18700.  C        .         .         .         .         .         .  I EL   .         .         .         .
         18750.  C        .         .         .         .         .         .   IEL   .         .         .         .
         18800.  C        .         .         .         .         .         .   IEL   .         .         .         .
         18850.  C        .         .         .         .         .         .   IEL   .         .         .         .
         18900.  C        .         .         .         .         .         .   IE L  .         .         .         .
         18950.  C        .         .         .         .         .         .   IE L  .         .         .         .
         19000.  C        .         .         .         .         .         .   IWEL  .         .         .         .
         19050.  C        .         .         .         .         .         .   IREL  .         .         .         .
    3.61 19100.  C        .         .         .         .         .         .   IREL  .         .         .         .
         19150.  C        .         .         .         .         .         .   I E L .         .         .         .
         19200.  C        .         .         .         .         .         .    IE L .         .         .         .
         19250.  C        .         .         .         .         .         .    IE  L.         .         .         .
         19300.  C        .         .         .         .         .         .    IE  L.         .         .         .
         19350.  C        .         .         .         .         .         .    IER L.         .         .         .
         19400.  C        .         .         .         .         .         .    IER  L         .         .         .
    3.68 19450.  C        .         .         .         .         .         .    IER  L         .         .         .
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T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE:  1.H2I
        WASH "1" - BEARDSLEY CANAL - WHITE TANKS STRUCTURE #3 NORTH TO PEORIA AV

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0    1192.84      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0



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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 *PROF 2
0

 V=     .100 CEHV=     .300
 *SECNO  .000

 3470 ENCROACHMENT STATIONS=     9947.3   10139.2  TYPE=      1  TARGET=      191.880
           BEGIN BACKWATER ANALYSIS AT NORMAL DEPTH.  TIE FLOODPLAIN INTO 100-YR
           PONDING WATER SURFACE BEHIND WHITE TANKS STRUCTURE #3
```

Q @ X1 = 0.000 TO X1 = 0.390 EQUALS Q AT CP12 + (.7) Q AT SUB-WT3
Q = 4125 + (.7)413 =4414 CFS

.000	3.44	1192.84	.00	1192.84	1193.93	1.09	.00	.00	1192.00
4414.0	10.9	4286.7	116.4	5.3	505.4	29.4	.0	.0	1190.00
.00	2.06	8.48	3.96	.030	.028	.040	.000	1189.40	9947.40
.005520	0.	0.	0.	0	0	0	.00	191.80	10139.20

*SECNO .070

3470 ENCROACHMENT STATIONS= 9948.3 10160.3 TYPE= 1 TARGET= 211.970

.070	3.17	1195.17	1195.11	1195.17	1196.35	1.18	2.40	.03	1194.00
4414.0	20.4	4386.7	6.9	6.8	501.8	3.1	4.5	1.7	1194.00
.01	3.02	8.74	2.24	.030	.028	.040	.000	1192.00	9948.37
.007698	360.	370.	370.	3	11	0	.00	211.92	10160.29

*SECNO .156

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9907.8 10260.8 TYPE= 1 TARGET= 353.000

.156	4.39	1198.29	.00	1198.29	1198.96	.66	2.55	.05	1198.00
4414.0	.3	4246.8	166.9	.3	638.1	81.1	10.9	4.7	1198.00
.03	.91	6.66	2.06	.030	.028	.040	.000	1193.90	9907.83
.004274	460.	455.	450.	2	0	0	.00	353.00	10260.83

1490 NH CARD USED
*SECNO .231
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9954.3 10115.0 TYPE= 1 TARGET= 160.670

.231	5.05	1200.35	1200.35	1200.04	1201.80	1.45	2.46	.24	100000.00
4414.0	.0	4414.0	.0	.0	456.9	.0	16.2	6.9	100000.00
.04	.00	9.66	.00	.000	.031	.000	.000	1195.30	9954.33
.009944	400.	395.	325.	2	8	0	.00	157.69	10112.02

1490 NH CARD USED
*SECNO .307
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

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3470 ENCROACHMENT STATIONS=     9881.3   10065.0  TYPE=      1  TARGET=      183.750
     .307      5.43   1203.13      .00   1202.27   1204.08      .95      2.23      .05 100000.00
   4414.0        .0    4414.0       .0        .0     563.1       .0      20.8      8.4 100000.00
     .06       .00      7.84      .00      .000      .025     .000      .000  1197.70   9881.25
  .003567      345.      400.     360.         3         0        0       .00   167.22  10048.47


CCHV=     .100 CEHV=     .300
*SECNO  .390

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9931.3   10041.5  TYPE=      1  TARGET=      110.140
     .390      6.37   1208.17  1208.17   1208.15   1210.06     1.89      2.30      .28   1208.00
   4414.0        .3    4413.6       .1        .3     400.2       .1      25.7      9.8   1208.00
     .07       .94     11.03      .70      .030      .030     .040      .000  1201.80   9931.33
  .008427      420.      440.     480.        20         8        0       .00   110.14  10041.47


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .465

3470 ENCROACHMENT STATIONS=     9922.8   10040.8  TYPE=      1  TARGET=      117.930

         Q @ X1 = 0.465 TO X1 = 0.770 EQUALS Q AT CP12
         Q = 4125 CFS

     .465      6.41   1211.41      .00   1211.43   1212.94     1.53      2.85      .04   1210.00
  4125.0       15.2    4092.5     17.3       5.0     411.4      7.5      29.4     10.8   1210.00
     .08      3.05      9.95     2.30      .030      .030     .040      .000  1205.00   9922.93
  .006170      410.      395.     390.         2         0        0       .00   117.68  10040.61


*SECNO  .543

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41


0 ENCROACHMENT STATIONS=     9940.4   10100.0  TYPE=      1  TARGET=      159.630
     .543      7.21   1213.91      .00   1213.93   1214.74      .82      1.73      .07   1212.00
  4125.0       24.2    3146.9    953.8       9.1     394.2    219.4      34.3     12.1   1210.00
     .09      2.65      7.98     4.35      .030      .030     .040      .000  1206.70   9940.44
  .003122      445.      410.     370.         2         0        0       .00   159.56  10100.00
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*SECNO .620

3470 ENCROACHMENT STATIONS= 9954.5 10100.0 TYPE= 1 TARGET= 145.500

.620	7.31	1215.11	.00	1215.09	1215.96	.85	1.21	.01	1212.00
4125.0	84.6	3586.0	454.5	24.2	461.2	117.6	40.0	13.5	1212.00
.11	3.49	7.78	3.86	.030	.030	.040	.000	1207.80	9954.50
.002810	410.	410.	410.	2	0	0	.00	145.50	10100.00

*SECNO .696

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9954.2 10045.8 TYPE= 1 TARGET= 91.660

.696	7.18	1217.18	1217.18	1217.17	1219.31	2.13	1.63	.39	1214.00
4125.0	152.6	3858.0	114.4	25.2	320.6	25.2	44.5	14.6	1214.00
.12	6.04	12.03	4.53	.030	.030	.040	.000	1210.00	9954.17
.006394	400.	400.	400.	20	8	0	.00	91.66	10045.83

*SECNO .770

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

3470 ENCROACHMENT STATIONS= 9950.1 10071.3 TYPE= 1 TARGET= 121.150

.770	8.59	1219.89	.00	1219.98	1220.76	.87	1.33	.13	1216.00
4125.0	150.8	3476.6	497.7	37.8	434.8	131.4	48.9	15.6	1216.00
.13	3.99	8.00	3.79	.030	.030	.040	.000	1211.30	9950.55
.002105	390.	390.	390.	2	0	0	.00	120.73	10071.28

*SECNO .846

3470 ENCROACHMENT STATIONS= 9943.2 10083.4 TYPE= 1 TARGET= 140.181

Q @ X1 = 0.846 TO X1 = 0.998 EQUALS (Q AT CP12 + Q AT CP10)/2
Q = (4125 + 3655)/2 = 3890 CFS

.846	7.30	1220.90	.00	1220.24	1221.45	.54	.65	.03	1216.00
3890.0	135.0	3337.9	417.1	40.0	532.7	142.3	54.9	16.8	1216.00
.15	3.37	6.27	2.93	.030	.030	.040	.000	1213.60	9943.22
.001283	400.	400.	400.	2	0	0	.00	140.18	10083.40

*SECNO .920

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9966.3 10070.0 TYPE= 1 TARGET= 103.740

.920	5.85	1221.45	1221.45	1221.50	1223.26	1.81	1.07	.38	1220.00
3890.0	9.4	3880.6	.0	2.6	359.0	.0	59.8	17.9	100000.00
.16	3.59	10.81	.00	.030	.030	.000	.000	1215.60	9966.38
.008900	395.	395.	395.	20	15	0	.00	103.62	10070.00

*SECNO .998

3301 HV CHANGED MORE THAN HVINS

3693 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9969.3 10043.6 TYPE= 1 TARGET= 74.310

.998	7.45	1225.75	1225.75	1225.72	1228.11	2.36	3.28	.17	1224.00
3890.0	19.2	3848.8	22.0	5.1	310.4	7.6	63.0	18.7	1224.00
.17	3.77	12.40	2.87	.030	.030	.040	.000	1218.30	9969.28
.007211	410.	410.	410.	2	11	0	.00	74.31	10043.59

CCHV= .300 CEHV= .500
*SECNO 1.074

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9957.2 10032.6 TYPE= 1 TARGET= 75.409

Q @ X1 = 1.074 TO X1 = 1.148 EQUALS Q AT CP10 (DOWNSTREAM OF DIVER-
Q = 3655 CFS SION AT NORTHERN AVE.)

1.074	8.00	1229.00	.00	1229.03	1230.70	1.70	2.39	.20	1228.00
3655.0	8.3	3644.7	2.0	3.8	347.8	1.3	66.1	19.4	1228.00
.18	2.19	10.48	1.57	.030	.030	.040	.000	1221.00	9957.46
.004962	400.	400.	400.	2	0	0	.00	75.05	10032.51

CCHV= .300 CEHV= .500
*SECNO 1.148
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9880.0 10069.4 TYPE= 1 TARGET= 189.420

NORTHERN AVENUE
CROSS SECTION EXTENDED - APPROXIMATELY 1486 CFS BREAKS OUT EAST OVER
BEARDSLEY CANAL FOR NEXT THREE UPSTREAM CROSS SECTIONS.

1.148	10.55	1234.55	1234.55	1234.59	1235.04	.49	.70	.36	1227.00
3655.0	1278.5	1280.9	1095.6	253.6	191.9	224.4	70.8	20.6	1227.00
.20	5.04	6.67	4.88	.024	.024	.024	.000	1224.00	9880.00
.000914	395.	390.	405.	20	22	0	.00	189.14	10069.14

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.50	2.50	.00	16.00	.10	113.00	.41	1224.40	1224.00

*SECNO 1.159
BTCARD, BRIDGE STENCL= 9886.00 STENCR= 10247.26

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.38

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1265.97	1235.05	.00	2708.	1447.	113.	110.	1230.40	1234.50	361.

3470 ENCROACHMENT STATIONS= 9886.0 10247.3 TYPE= 1 TARGET= 361.260

Q @ X1 = 1.159 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
Q = 5141 - 991 = 4150 CFS THE EAST
CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

1

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS. THIS
WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT TWO UPSTREAM CROSS
SECTIONS. NO LOSS OF VOLUME IS REQUIRED BECAUSE OF BREAKOUT.

1.159	13.77	1238.17	.00	1238.18	1238.37	.20	3.33	.00	1227.40
4150.0	2742.8	1031.9	375.4	764.2	262.8	209.7	72.1	21.0	1227.40

```
      .21      3.59      3.93      1.79      .024      .024      .024      .000   1224.40   9886.00
   .000208      60.       60.       60.         2         0         6       .00    360.93  10246.93


CCHV=     .300 CEHV=     .500
*SECNO 1.237

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .61


3470 ENCROACHMENT STATIONS=     9950.0   10298.3  TYPE=      1  TARGET=      348.350

          Q AT X1 = 1.237 EQUALS Q AT CP10 MINUS A PORTION OF BREAKOUT FLOW TO
          Q = 5141 - 495 = 4645 CFS                              THE EAST
          CROSS SECTION EXTENDED-FLOW WILL BREAKOUT TO THE EAST

    1.237     10.53   1238.33       .00   1238.34   1238.51       .19       .14       .00   1236.00
   4645.0      82.2    2132.0    2430.7      44.4     469.5    1108.9      85.1      24.2   1232.00
      .24      1.85      4.54      2.19      .030      .035      .050      .000   1227.80   9950.00
   .000692     390.      410.      390.         2         0         0       .00    348.28  10298.28


CCHV=     .100 CEHV=     .300
*SECNO 1.313

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52


3470 ENCROACHMENT STATIONS=     9963.3   10172.9  TYPE=      1  TARGET=      209.660

          Q AT X1 = 1.313 TO X1 = 1.466 EQUALS Q AT CP10 (UPSTREAM OF DIVERSION
          Q = 5141 CFS                                        AT NORTHERN AVE.)

    1.313      7.71   1238.51       .00   1238.51   1239.21       .70       .54       .15   1238.00
   5141.0       3.3    4005.8    1131.9       3.0     546.5     292.8      96.5      26.7   1234.50
      .26      1.12      7.33      3.87      .030      .035      .050      .000   1230.80   9963.42
   .003171     405.      405.      405.         0         0         0       .00    209.32  10172.74


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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 1.388

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9982.2   10125.0  TYPE=      1  TARGET=      142.780
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    1.388      6.37   1240.87   1240.87   1240.74   1242.66      1.79      2.39       .33   1240.00
   5141.0       5.2    1903.3    3232.5       1.4     150.9     342.0     102.6      28.3   1238.30
      .27      3.72     12.61      9.45      .030      .035      .045      .000   1234.50   9982.22
  .015743      395.      395.      395.        20        15         0       .00    142.78  10125.00


CCHV=     .100 CEHV=     .300
*SECNO 1.466

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.40


3470 ENCROACHMENT STATIONS=     9980.8   10160.0  TYPE=      1  TARGET=      179.250
    1.466      8.20   1245.70   1245.62   1245.55   1247.17      1.47      4.48       .03 100000.00
   5141.0        .0    2702.7    2438.3        .0     259.6     273.8     107.4      29.8   1244.30
      .28       .00     10.41      8.90      .000      .035      .030      .000   1237.50   9980.75
  .008031      410.      410.      410.         4        11         0       .00    172.51  10153.26


*SECNO 1.556

3470 ENCROACHMENT STATIONS=     9964.3   10102.8  TYPE=      1  TARGET=      138.480

          Q AT X1 = 1.556
          Q = 3816 CFS

    1.556      7.91   1248.91       .00   1249.07   1250.13      1.22      2.93       .03   1248.00
   3816.0       8.2    3627.9     179.9       4.2     401.5      45.4     112.8      31.5   1246.00
      .30      1.97      9.04      3.96      .030      .035      .030      .000   1241.00   9965.86
  .004542      475.      475.      475.         3         0         0       .00    130.69  10096.55


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.616

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58


3470 ENCROACHMENT STATIONS=     9950.0   10150.0  TYPE=      1  TARGET=      199.960

          Q @ X1 = 1.556 TO X1 = 1.996 EQUALS (Q AT SUB 10/4 + Q AT CP3*)
          Q = (1173/4 + 1755) = 2048 CFS
                                    * = DOWNSTREAM OF DIVERSON AT OLIVE AVE.

          CONFLUENCE WITH WASH "1A" - CHOLLA WASH
          CROSS SECTION EXTENDED DUE TO OVERTOPPING OF BEARDSLEY CANAL DIKE

    1.616      6.64   1250.64       .00   1250.67   1250.76       .12       .52       .11   1248.00
   2048.0      42.8    1345.3     659.9      26.8     474.4     240.9     117.2      32.7   1247.10
      .33      1.60      2.84      2.74      .030      .035      .030      .000   1244.00   9950.00
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   .000525      320.      320.      320.         2         0         0       .00    198.84  10148.84


*SECNO 1.692

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .25


3470 ENCROACHMENT STATIONS=     9974.7   10135.9  TYPE=      1  TARGET=      161.200
     1.692      3.04   1250.74       .00   1250.78   1251.49       .75       .54       .19   1250.00
    2048.0       8.6     770.1    1269.3       3.6     113.0     180.7     121.9      34.3   1249.30
       .34      2.38      6.81      7.02      .030      .035      .030      .000   1247.70   9975.25
   .008730      400.      400.      400.         4         0         0       .00    160.31  10135.56


1490 NH CARD USED
*SECNO 1.768

3470 ENCROACHMENT STATIONS=     9962.9   10140.0  TYPE=      1  TARGET=      177.120
     1.768      3.21   1253.91       .00   1253.62   1254.38       .47      2.87       .03 100000.00
    2048.0        .0    1003.9    1044.1        .0     165.1     213.7     125.0      35.9   1252.90
       .36       .00      6.08      4.89      .000      .030      .040      .000   1250.70   9962.88
   .005990      400.      400.      400.         4         0         0       .00    177.12  10140.00


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 1.844

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.8   10055.9  TYPE=      1  TARGET=       75.060
     1.844      7.07   1259.47   1259.47   1259.44   1261.21      1.74      2.87       .38 100000.00
    2048.0        .0    1986.0      62.0        .0     185.0      27.0     127.8      37.0   1258.00
       .38       .00     10.73      2.30      .000      .035      .050      .000   1252.40   9980.88
   .008753      400.      400.      400.        20        17         0       .00     75.00  10055.88


*SECNO 1.920

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43
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3470 ENCROACHMENT STATIONS=     9973.1   10049.0  TYPE=      1  TARGET=       75.851
     1.920      7.57   1262.77       .00   1262.78   1263.68       .92      2.39       .08   1262.00
    2048.0        .9    2039.6       7.5        .7     265.0       7.3     130.0      37.7   1262.00
       .39      1.22      7.70      1.03      .040      .035      .050      .000   1255.20   9973.10
   .004252      405.      405.      405.         2         0         0       .00     75.85  10048.95


CCHV=     .100 CEHV=     .300
*SECNO 1.996

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9974.0   10037.0  TYPE=      1  TARGET=       63.000
     1.996      5.19   1265.59   1265.59   1265.60   1267.22      1.63      2.74       .21 100000.00
    2048.0        .0    2048.0        .0        .0     199.8        .0     132.2      38.4 100000.00
       .40       .00     10.25       .00      .000      .035      .000      .000   1260.40   9974.01
   .012864      400.      400.      400.         3        19         0       .00     62.92  10036.93


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO 2.072

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.64


3470 ENCROACHMENT STATIONS=     9972.2   10040.0  TYPE=      1  TARGET=       67.830

          Q @ X1 = 2.072 TO X1 = 2.159 EQUALS Q AT CP3 (DOWNSTREAM OF DIVERSION
          Q = 1755 CFS                                  AT OLIVE AVENUE)

     2.072      5.93   1269.43       .00   1269.12   1270.07       .64      2.55       .30 100000.00
    1755.0        .0    1466.6     288.4        .0     216.7      65.4     134.4      39.0   1266.00
       .42       .00      6.77      4.41      .000      .035      .040      .000   1263.50   9972.17
   .003527      400.      400.      400.         3         0         0       .00     67.83  10040.00


CCHV=     .300 CEHV=     .500
*SECNO 2.159

[illegible] HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9910.0   10542.7  TYPE=      1  TARGET=      632.730
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1275.60 ELREA= 1275.60

OLIVE AVENUE
NEXT THREE UPSTREAM CROSS SECTIONS EXTENDED - APPROXIMATELY 490 CFS
BREAKS OUT EAST OVER BEARDSLEY CANAL.

FLOODPLAIN LIMITS BASED UPON UPSTREAM FLOW COMING OVER THE TOP OF
OLIVE AVENUE.

2.159	7.45	1274.65	1274.65	1274.66	1278.12	3.46	2.08	1.41	1271.20
1755.0	.0	1755.0	.0	.0	117.5	.0	136.5	39.4	1271.20
.43	.00	14.93	.00	.000	.024	.000	.000	1267.20	9991.00
.005996	440.	460.	460.	20	11	0	.00	17.20	10008.20

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.50	2.50	.00	10.00	.10	104.00	.56	1268.20	1267.80

*SECNO 2.167
BTCARD, BRIDGE STENCL= 9910.00 STENCR= 10542.73
6870 D.S. ENERGY OF 1278.12 IS HIGHER THAN COMPUTED ENERGY OF 1277.19

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 13.58

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1285.51	1282.47	.36	1181.	1085.	104.	104.	1275.60	1275.90	572.

3470 ENCROACHMENT STATIONS= 9910.0 10542.7 TYPE= 1 TARGET= 632.730

Q @ X1 = 2.107 TO X1 = 2.267 EQUALS Q AT CP3 (UPSTREAM OF DIVERSION
Q = 2245 CFS AT OLIVE AVE.)

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF CULVERTS. THIS WILL
PRECLUDE ESTABLISHING A FLOODWAY FOR NEXT THREE UPSTEAM CROSS
SECTIONS. NO VOLUME LOSS IS REQUIRED BECAUSE OF BREAKOUT.

2.167	10.50	1278.10	.00	1278.10	1278.12	.02	.00	.00	1271.60
2245.0	332.5	233.4	1679.2	294.5	155.6	1583.0	137.5	39.7	1271.60

```
      .44      1.13      1.50      1.06      .024      .024      .024      .000   1267.60   9910.00
   .000053      40.       40.       40.         2         0         5       .00    632.73  10542.73


CNO 2.186

3470 ENCROACHMENT STATIONS=     9910.0   10518.2  TYPE=      1  TARGET=      608.190
     2.186      8.60   1278.10       .00   1278.10   1278.13       .03       .00       .00   1272.00
    2245.0     132.7    1411.1     701.2     139.4     915.5     897.1     142.1      41.2   1272.00
       .46       .95      1.54       .78      .024      .024      .024      .000   1269.50   9910.00
   .000041      100.      100.      100.         2         0         0       .00    608.19  10518.19


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 2.267

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .15


3470 ENCROACHMENT STATIONS=     9970.0   10352.2  TYPE=      1  TARGET=      382.220

          NEXT FOUR UPSTREAM CROSS SECTIONS ARE AT THE CONFLUENCE WITH
          WASH "1B" - WATERFALL WASH

     2.267      6.96   1278.06       .00   1278.06   1278.22       .16       .05       .04   1327.80
    2245.0        .0    1003.2    1241.8        .0     224.1     757.1     156.2      45.9   1274.00
       .50       .00      4.48      1.64      .000      .035      .070      .000   1271.10   9970.00
   .001777      410.      430.      415.         2         0         0       .00    382.22  10352.22


*SECNO 2.330

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52


3470 ENCROACHMENT STATIONS=     9977.1   10100.0  TYPE=      1  TARGET=      122.880

          Q @ X1 = 2.330 TO X1 = 2.640 EQUALS Q AT I1CP3.
          Q = 997 CFS

     2.330      5.28   1278.58       .00   1278.58   1278.75       .18       .53       .00 100000.00
     997.0        .0     844.1     152.9        .0     232.5     124.6     161.3      47.8   1276.00
       .53       .00      3.63      1.23      .000      .035      .070      .000   1273.30   9977.12
   .001305      330.      330.      330.         2         0         0       .00    122.88  10100.00


0 NH CARD USED
*SECNO 2.392

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9986.6 10090.0 TYPE= 1 TARGET= 103.380

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2.392	5.21	1280.61	1280.61	1279.67	1281.52	.91	.92	.22	100000.00
997.0	.0	939.9	57.1	.0	119.3	29.5	163.2	48.7	1280.00
.54	.00	7.88	1.93	.000	.035	.047	.000	1275.40	9986.62
.009512	330.	330.	330.	20	5	0	.00	103.38	10090.00

1490 NH CARD USED
*SECNO 2.468
3280 CROSS SECTION 2.47 EXTENDED .47 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9983.7 10085.0 TYPE= 1 TARGET= 101.320

2.468	4.27	1283.97	.00	1283.04	1284.37	.40	2.79	.05	100000.00
997.0	.0	869.0	128.0	.0	163.5	46.4	164.9	49.6	1283.10
.56	.00	5.32	2.76	.000	.035	.050	.000	1279.70	9983.68
.005337	400.	400.	400.	3	0	0	.00	101.32	10085.00

1490 NH CARD USED
*SECNO 2.553

3470 ENCROACHMENT STATIONS= 9976.6 10085.0 TYPE= 1 TARGET= 108.420

2.553	4.06	1286.16	.00	1285.71	1286.61	.45	2.23	.01	100000.00
997.0	.0	865.2	131.8	.0	151.4	72.9	167.1	50.7	1284.00
.59	.00	5.72	1.81	.000	.035	.070	.000	1282.10	9976.58
.004612	450.	450.	450.	3	0	0	.00	108.42	10085.00

CCHV= .100 CEHV= .300
*SECNO 2.640

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.78

3470 ENCROACHMENT STATIONS= 9969.9 10080.0 TYPE= 1 TARGET= 110.110

2.640	4.68	1287.58	.00	1287.34	1287.74	.15	1.09	.03	100000.00
997.0	.0	761.7	235.3	.0	220.8	136.2	170.2	51.9	1284.30
.63	.00	3.45	1.73	.000	.035	.070	.000	1282.90	9969.89
.001448	460.	460.	460.	3	0	0	.00	110.11	10080.00

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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 2.741

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=     9985.1   10035.0  TYPE=      1  TARGET=       49.910

          Q @ X1 = 2.741 TO X1 = 3.081 EQUALS Q AT SUB-3A + Q AT SUB-3/2
          Q = 296 + 828/2 = 710 CFS

    2.741      4.64   1288.54       .00   1287.96   1289.04       .49      1.20       .10 100000.00
    710.0        .0     710.0        .0        .0     126.1        .0     173.1      52.8 100000.00
      .65       .00      5.63       .00      .000      .035      .000      .000   1283.90   9985.09
  .005379      530.      530.      530.         2         0         0       .00     49.91  10035.00


*SECNO 2.826

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.30


3470 ENCROACHMENT STATIONS=     9983.3   10055.0  TYPE=      1  TARGET=       71.710
    2.826      4.13   1289.83       .00   1289.12   1289.96       .13       .89       .04 100000.00
    710.0        .0     710.0        .0        .0     242.1        .0     175.0      53.5 100000.00
      .70       .00      2.93       .00      .000      .035      .000      .000   1285.70   9983.29
  .001012      450.      450.      450.         2         0         0       .00     71.71  10055.00


*SECNO 2.907

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.6   10044.1  TYPE=      1  TARGET=       63.511
    2.907      3.28   1294.58   1294.58   1294.58   1295.49       .91      1.06       .23   1294.00
    710.0       2.9     702.6       4.6       1.3      91.4       4.2     176.7      54.1   1294.00
      .71      2.14      7.68      1.08      .035      .035      .070      .000   1291.30   9980.56
  .012861      430.      430.      430.        20        15         0       .00     63.51  10044.07


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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 3.009
7185 MINIMUM SPECIFIC ENERGY
```

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9980.8 10066.5 TYPE= 1 TARGET= 85.750

3.009	4.74	1301.34	1301.34	1301.28	1302.17	.83	5.78	.01	1300.00
710.0	31.6	632.0	46.4	10.0	82.2	29.1	178.0	55.0	1300.00
.73	3.17	7.69	1.59	.035	.035	.070	.000	1296.60	9980.79
.009057	540.	540.	540.	4	14	0	.00	85.75	10066.54

CCHV= .100 CEHV= .300
*SECNO 3.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.38

3470 ENCROACHMENT STATIONS= 9974.8 10050.3 TYPE= 1 TARGET= 75.510

3.081	5.70	1303.20	.00	1303.22	1303.43	.23	1.20	.06	1302.00
710.0	6.2	698.4	5.4	6.0	178.5	8.9	179.4	55.7	1302.00
.76	1.05	3.91	.60	.040	.035	.070	.000	1297.50	9975.04
.001596	380.	380.	380.	4	0	0	.00	74.91	10049.95

*SECNO 3.167

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

ENCROACHMENT STATIONS= 9980.2 10034.5 TYPE= 1 TARGET= 54.280

Q @ X1 = 3.167 TO X1 = 3.540 EQUALS Q AT SUB-3A
Q = 296 CFS

3.167	4.12	1303.92	.00	1303.93	1303.98	.07	.54	.02	100000.00
296.0	.0	296.0	.0	.0	142.3	.0	181.1	56.4	100000.00
.82	.00	2.08	.00	.000	.035	.000	.000	1299.80	9980.21
.000679	450.	450.	370.	3	0	0	.00	54.15	10034.36

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.214
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9949.7 10016.5 TYPE= 1 TARGET= 66.870

3.214	1.51	1304.21	1304.21	1304.20	1304.65	.44	.48	.11	1304.00
296.0	.0	295.9	.1	.0	55.6	.2	181.7	56.7	1304.00
.83	.05	5.32	.65	.040	.035	.070	.000	1302.70	9949.66
.019363	230.	250.	280.	20	22	0	.00	66.87	10016.53

*SECNO 3.301

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.88

3470 ENCROACHMENT STATIONS= 9986.8 10040.8 TYPE= 1 TARGET= 53.900

3.301	2.53	1308.63	.00	1308.63	1308.95	.33	4.30	.01	1308.00
296.0	1.2	291.2	3.6	1.0	63.0	4.9	182.4	57.4	1308.00
.86	1.25	4.62	.73	.040	.035	.070	.000	1306.10	9986.86
.005483	460.	460.	460.	6	0	0	.00	53.83	10040.69

*SECNO 3.383

3470 ENCROACHMENT STATIONS= 9986.0 10018.1 TYPE= 1 TARGET= 32.160

3.383	2.53	1311.63	.00	1311.62	1312.15	.52	3.13	.06	100000.00
296.0	.0	296.0	.0	.0	51.3	.0	183.0	57.8	100000.00
.88	.00	5.78	.00	.000	.035	.000	.000	1309.10	9985.95
.010165	430.	430.	430.	3	0	0	.00	32.15	10018.10

*SECNO 3.460

3470 ENCROACHMENT STATIONS= 9988.7 10013.8 TYPE= 1 TARGET= 25.090

3.460	2.93	1315.53	.00	1315.53	1316.11	.58	3.95	.02	100000.00
296.0	.0	296.0	.0	.0	48.5	.0	183.4	58.1	100000.00
.90	.00	6.10	.00	.000	.035	.000	.000	1312.60	9988.73
.009123	410.	410.	410.	4	0	0	.00	25.09	10013.82

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.540

3470 ENCROACHMENT STATIONS= 9993.3 10043.8 TYPE= 1 TARGET= 50.450

3.540	2.46	1318.76	.00	1318.76	1319.01	.25	2.87	.03	100000.00
296.0	.0	296.0	.0	.0	74.5	.0	184.0	58.4	100000.00
.93	.00	3.98	.00	.000	.035	.000	.000	1316.30	9993.35
.005297	420.	420.	420.	4	0	0	.00	50.44	10043.79

*SECNO 3.610

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .48

[illegible] ENCROACHMENT STATIONS= 9987.1 10041.0 TYPE= 1 TARGET= 53.920

Q @ X1 = 3.610 TO X1 = 3.678 EQUALS Q AT SUB-3A/2
Q = 296/2 = 148 CFS

3.610	2.47	1320.77	.00	1320.77	1321.02	.24	2.01	.00	100000.00
148.0	.0	137.7	10.3	.0	33.7	12.1	184.5	58.9	1320.00

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      .96       .00      4.09       .85      .000      .035      .070      .000   1318.30   9987.09
   .005688      370.      370.      370.         2         0         0       .00     53.92  10041.01

NO 3.678

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24

3470 ENCROACHMENT STATIONS=     9984.8   10021.5  TYPE=       1  TARGET=       36.790
     3.678      2.94   1321.74       .00   1321.74   1321.81       .07       .78       .02 100000.00
     148.0        .0     148.0        .0        .0      68.9        .0     185.0      59.3 100000.00
      1.00       .00      2.15       .00      .000      .035      .000      .000   1318.80   9984.76
   .001133      360.      360.      360.         3         0         0       .00     36.78  10021.54

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                                                                    THIS RUN EXECUTED 30OCT91     10:08:31
****************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
****************************************

- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WASH "1" - BEARDSLEY CAN

SUMMARY PRINTOUT

      SECNO        Q      CWSEL      SSTA     STCHL     STCHR     ENDST    DIFWSX    TOPWID     DEPTH     ELMIN     10*KS       VCH

       .000  4414.00   1192.84   9947.34   9960.00  10120.00  10139.22       .00    191.88      3.44   1189.40     54.96      8.47
       .000  4414.00   1192.84   9947.40   9960.00  10120.00  10139.20       .00    191.80      3.44   1189.40     55.20      8.48

       .070  4414.00   1195.17   9948.33   9960.00  10155.00  10160.30      2.32    211.97      3.17   1192.00     76.62      8.73
       .070  4414.00   1195.17   9948.37   9960.00  10155.00  10160.29      2.33    211.92      3.17   1192.00     76.98      8.74

       .156  4414.00   1198.29   9907.83   9910.00  10150.00  10260.83      3.12    352.99      4.39   1193.90     43.12      6.67
       .156  4414.00   1198.29   9907.83   9910.00  10150.00  10260.83      3.12    353.00      4.39   1193.90     42.74      6.66

       .231  4414.00   1200.04   9954.39   9925.00  10115.00  10262.55      1.75    280.61      4.74   1195.30     52.08      7.08
*      .231  4414.00   1200.35   9954.33   9925.00  10115.00  10112.02      2.06    157.69      5.05   1195.30     99.44      9.66

*      .307  4414.00   1202.27   9881.26   9785.00  10065.00  10318.36      2.23    225.46      4.57   1197.70     62.90      8.85
*      .307  4414.00   1203.13   9881.25   9785.00  10065.00  10048.47      2.78    167.22      5.43   1197.70     35.67      7.84

       .390  4414.00   1208.15   9931.33   9935.00  10040.00  10041.47      5.88    110.14      6.35   1201.80     85.89     11.09
       .390  4414.00   1208.17   9931.33   9935.00  10040.00  10041.47      5.04    110.14      6.37   1201.80     84.27     11.03

       .465  4125.00   1211.43   9922.83   9930.00  10030.00  10040.76      3.29    117.93      6.43   1205.00     60.66      9.90
       .465  4125.00   1211.41   9922.93   9930.00  10030.00  10040.61      3.25    117.68      6.41   1205.00     61.70      9.95

*      .543  4125.00   1213.93   9940.37   9950.00  10030.00  10172.96      2.49    232.59      7.23   1206.70     27.34      7.49
```

*	.543	4125.00	1213.91	9940.44	9950.00	10030.00	10100.00	2.50	159.56	7.21	1206.70	31.22	7.98
	.620	4125.00	1215.09	9954.50	9970.00	10060.00	10333.96	1.17	379.46	7.29	1207.80	17.39	6.11
	.620	4125.00	1215.11	9954.50	9970.00	10060.00	10100.00	1.20	145.50	7.31	1207.80	28.10	7.78
	.696	4125.00	1217.17	9954.16	9970.00	10030.00	10045.84	2.07	91.67	7.17	1210.00	64.39	12.06
*	.696	4125.00	1217.18	9954.17	9970.00	10030.00	10045.83	2.06	91.66	7.18	1210.00	63.94	12.03
*	.770	4125.00	1219.98	9950.13	9970.00	10035.00	10399.23	2.81	449.10	8.68	1211.30	9.43	5.40
*	.770	4125.00	1219.89	9950.55	9970.00	10035.00	10071.28	2.71	120.73	8.59	1211.30	21.05	8.00

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.846	3890.00	1220.24	9943.22	9960.00	10040.00	10148.92	.26	205.70	6.64	1213.60	17.54	6.83
	.846	3890.00	1220.90	9943.22	9960.00	10040.00	10083.40	1.01	140.18	7.30	1213.60	12.83	6.27
*	.920	3890.00	1221.50	9966.26	9970.00	10070.00	10092.44	1.26	126.18	5.90	1215.60	81.69	10.54
*	.920	3890.00	1221.45	9966.38	9970.00	10070.00	10070.00	.55	103.62	5.85	1215.60	89.00	10.81
*	.998	3890.00	1225.72	9969.28	9975.00	10035.00	10043.59	4.22	74.31	7.42	1218.30	73.68	12.48
*	.998	3890.00	1225.75	9969.28	9975.00	10035.00	10043.59	4.30	74.31	7.45	1218.30	72.11	12.40
	1.074	3655.00	1229.03	9957.19	9965.00	10030.00	10032.60	3.32	75.41	8.03	1221.00	48.50	10.41
	1.074	3655.00	1229.00	9957.46	9965.00	10030.00	10032.51	3.25	75.05	8.00	1221.00	49.62	10.48
*	1.148	3655.00	1234.59	9880.00	9989.00	10011.00	10069.42	5.56	189.42	10.59	1224.00	8.93	6.62
	1.148	3655.00	1234.55	9880.00	9989.00	10011.00	10069.14	5.56	189.14	10.55	1224.00	9.14	6.67
*	1.159	4150.00	1238.18	9886.00	9989.00	10011.00	10247.26	3.59	361.26	13.78	1224.40	2.07	3.92
*	1.159	4150.00	1238.17	9886.00	9989.00	10011.00	10246.93	3.62	360.93	13.77	1224.40	2.08	3.93
*	1.237	4645.00	1238.34	9950.00	9975.00	10030.00	10298.35	.15	348.35	10.54	1227.80	6.89	4.53
*	1.237	4645.00	1238.33	9950.00	9975.00	10030.00	10298.28	.15	348.28	10.53	1227.80	6.92	4.54
*	1.313	5141.00	1238.51	9963.26	9975.00	10075.00	10172.92	.18	209.66	7.71	1230.80	31.56	7.32
*	1.313	5141.00	1238.51	9963.42	9975.00	10075.00	10172.74	.18	209.32	7.71	1230.80	31.71	7.33
*	1.388	5141.00	1240.74	9982.23	9985.00	10025.00	10177.94	2.23	195.71	6.24	1234.50	143.99	11.78
*	1.388	5141.00	1240.87	9982.22	9985.00	10025.00	10125.00	2.36	142.78	6.37	1234.50	157.43	12.61
*	1.466	5141.00	1245.55	9980.75	9980.00	10035.00	10149.83	4.81	169.07	8.05	1237.50	92.46	10.95
*	1.466	5141.00	1245.70	9980.75	9980.00	10035.00	10153.26	4.83	172.51	8.20	1237.50	80.31	10.41
	1.556	3816.00	1249.07	9964.30	9975.00	10045.00	10102.78	3.52	138.48	8.07	1241.00	40.85	8.72
	1.556	3816.00	1248.91	9965.86	9975.00	10045.00	10096.55	3.21	130.69	7.91	1241.00	45.42	9.04
*	1.616	2048.00	1250.67	9950.00	9965.00	10060.00	10149.96	1.60	199.96	6.67	1244.00	5.13	2.81
*	1.616	2048.00	1250.64	9950.00	9965.00	10060.00	10148.84	1.72	198.84	6.64	1244.00	5.25	2.84
*	1.692	2048.00	1250.78	9974.68	9985.00	10035.00	10135.88	.11	161.21	3.08	1247.70	81.16	6.65
*	1.692	2048.00	1250.74	9975.25	9985.00	10035.00	10135.56	.10	160.31	3.04	1247.70	87.30	6.81
	1.768	2048.00	1253.62	9962.88	9960.00	10045.00	10236.16	2.84	273.29	2.92	1250.70	44.53	4.73
	1.768	2048.00	1253.91	9962.88	9960.00	10045.00	10140.00	3.17	177.12	3.21	1250.70	59.90	6.08
*	1.844	2048.00	1259.44	9980.94	9980.00	10020.00	10055.88	5.82	74.94	7.04	1252.40	89.85	10.83
*	1.844	2048.00	1259.47	9980.88	9980.00	10020.00	10055.88	5.56	75.00	7.07	1252.40	87.53	10.73

*	1.920	2048.00	1262.78	9973.04	9975.00	10030.00	10049.58	3.35	76.54	7.58	1255.20	41.95	7.66
*	1.920	2048.00	1262.77	9973.10	9975.00	10030.00	10048.95	3.30	75.85	7.57	1255.20	42.52	7.70
*	1.996	2048.00	1265.60	9974.00	9965.00	10055.00	10036.99	2.81	62.99	5.20	1260.40	127.76	10.22
	1.996	2048.00	1265.59	9974.01	9965.00	10055.00	10036.93	2.83	62.92	5.19	1260.40	128.64	10.25

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.072	1755.00	1269.12	9972.17	9965.00	10020.00	10218.58	3.52	246.41	5.62	1263.50	19.63	4.85
*	2.072	1755.00	1269.43	9972.17	9965.00	10020.00	10040.00	3.84	67.83	[illegible].93	1263.50	35.27	6.77
*	2.159	1755.00	1274.66	9991.00	9991.00	10008.20	10008.20	5.54	17.20	[illegible].46	1267.20	59.85	14.92
*	2.159	1755.00	1274.65	9991.00	9991.00	10008.20	10008.20	5.23	17.20	[illegible].45	1267.20	59.96	14.93
*	2.167	2245.00	1278.10	9910.00	9991.00	10008.20	10542.85	3.44	632.85	[illegible]0.50	1267.60	.53	1.50
*	2.167	2245.00	1278.10	9910.00	9991.00	10008.20	10542.73	3.44	632.73	10.50	1267.60	.53	1.50
	2.186	2245.00	1278.10	9910.00	9955.00	10075.00	10518.19	.00	608.19	8.60	1269.50	.41	1.54
	2.186	2245.00	1278.10	9910.00	9955.00	10075.00	10518.19	.00	608.19	8.60	1269.50	.41	1.54
*	2.267	2245.00	1278.06	9970.00	9970.00	10025.00	10352.22	-.04	382.22	6.96	1271.10	17.74	4.49
*	2.267	2245.00	1278.06	9970.00	9970.00	10025.00	10352.22	-.04	382.22	6.96	1271.10	17.77	4.48
*	2.330	997.00	1278.58	9977.12	9965.00	10040.00	10210.42	.52	233.30	5.28	1273.30	11.88	3.46
*	2.330	997.00	1278.58	9977.12	9965.00	10040.00	10100.00	.52	122.88	5.28	1273.30	13.05	3.63
	2.392	997.00	1279.67	9986.63	9965.00	10030.00	10207.46	1.10	159.31	4.27	1275.40	110.45	6.79
	2.392	997.00	1280.61	9986.62	9965.00	10030.00	10090.00	2.04	103.38	5.21	1275.40	95.12	7.88
*	2.468	997.00	1283.04	9983.59	9970.00	10055.00	10260.37	3.37	273.66	3.34	1279.70	53.12	3.85
	2.468	997.00	1283.97	9983.68	9970.00	10055.00	10085.00	3.36	101.32	4.27	1279.70	53.37	5.32
	2.553	997.00	1285.71	9976.47	9960.00	10030.00	10095.33	2.66	118.87	3.61	1282.10	89.61	7.11
	2.553	997.00	1286.16	9976.58	9960.00	10030.00	10085.00	2.20	108.42	4.06	1282.10	46.12	5.72
*	2.640	997.00	1287.34	9969.91	9965.00	10040.00	10166.81	1.64	196.89	4.44	1282.90	8.58	2.53
*	2.640	997.00	1287.58	9969.89	9965.00	10040.00	10080.00	1.42	110.11	4.68	1282.90	14.48	3.45
*	2.741	710.00	1287.96	9985.09	9965.00	10035.00	10159.82	.62	153.09	4.06	1283.90	40.35	4.86
*	2.741	710.00	1288.54	9985.09	9965.00	10035.00	10035.00	.96	49.91	4.64	1283.90	53.79	5.63
*	2.826	710.00	1289.12	9983.29	9965.00	10055.00	10157.05	1.16	173.76	3.42	1285.70	14.23	3.07
*	2.826	710.00	1289.83	9983.29	9965.00	10055.00	10055.00	1.28	71.71	4.13	1285.70	10.12	2.93
*	2.907	710.00	1294.58	9980.41	9985.00	10030.00	10044.54	5.46	64.13	3.28	1291.30	128.79	7.69
*	2.907	710.00	1294.58	9980.56	9985.00	10030.00	10044.07	4.76	63.51	3.28	1291.30	128.61	7.68
*	3.009	710.00	1301.28	9980.80	9995.00	10025.00	10066.54	6.70	85.74	4.68	1296.60	100.18	7.96
*	3.009	710.00	1301.34	9980.79	9995.00	10025.00	10066.54	6.76	85.75	4.74	1296.60	90.57	7.69
*	3.081	710.00	1303.22	9974.79	9985.00	10035.00	10050.31	1.95	75.52	5.72	1297.50	15.51	3.88
	3.081	710.00	1303.20	9975.04	9985.00	10035.00	10049.95	1.85	74.91	5.70	1297.50	15.96	3.91
*	3.167	296.00	1303.93	9980.18	9960.00	10035.00	10034.46	.70	54.28	4.13	1299.80	6.70	2.07
*	3.167	296.00	1303.92	9980.21	9960.00	10035.00	10034.36	.72	54.15	4.12	1299.80	6.79	2.08
*	3.214	296.00	1304.20	9949.66	9950.00	10015.00	10016.53	.28	66.86	1.50	1302.70	195.30	5.33
*	3.214	296.00	1304.21	9949.66	9950.00	10015.00	10016.53	.29	66.87	1.51	1302.70	193.63	5.32

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	3.301	296.00	1308.63	9986.85	9990.00	10025.00	10040.75	4.43	53.90	2.53	1306.10	54.59	4.62
*	3.301	296.00	1308.63	9986.86	9990.00	10025.00	10040.69	4.42	53.83	2.53	1306.10	54.83	4.62
	3.383	296.00	1311.62	9985.95	9985.00	10020.00	10018.11	2.99	32.16	2.52	1309.10	101.49	5.77
	3.383	296.00	1311.63	9985.95	9985.00	10020.00	10018.10	3.00	32.15	2.53	1309.10	101.65	5.78
	3.460	296.00	1315.53	9988.73	9975.00	10030.00	10013.82	3.91	25.09	2.93	1312.60	91.60	6.11
	3.460	296.00	1315.53	9988.73	9975.00	10030.00	10013.82	3.90	25.09	2.93	1312.60	91.23	6.10
	3.540	296.00	1318.76	9993.35	9980.00	10050.00	10043.80	3.24	50.44	2.46	1316.30	52.90	3.97
	3.540	296.00	1318.76	9993.35	9980.00	10050.00	10043.79	3.23	50.44	2.46	1316.30	52.97	3.98
*	3.610	148.00	1320.77	9987.09	9975.00	10010.00	10041.01	2.01	53.92	2.47	1318.30	57.04	4.10
*	3.610	148.00	1320.77	9987.09	9975.00	10010.00	10041.01	2.01	53.92	2.47	1318.30	56.88	4.09
*	3.678	148.00	1321.74	9984.76	9960.00	10030.00	10021.55	.97	36.79	2.94	1318.80	11.29	2.15
*	3.678	148.00	1321.74	9984.76	9960.00	10030.00	10021.54	.97	36.78	2.94	1318.80	11.33	2.15

WASH "1" - BEARDSLEY CAN

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1192.84	-2.16	1193.93	191.88	11.02	4286.37	116.61	.00	.00	9960.00	10120.00	.00
	.000	1192.84	.00	1193.93	191.80	10.91	4286.68	116.41	191.88	9947.34	9960.00	10120.00	10139.22
	.070	1195.17	.00	1196.34	211.97	20.53	4386.56	6.91	.00	.00	9960.00	10155.00	.00
	.070	1195.17	.01	1196.35	211.92	20.41	4386.72	6.87	211.97	9948.33	9960.00	10155.00	10160.30
	.156	1198.29	.00	1198.96	352.99	.28	4248.45	165.27	.00	.00	9910.00	10150.00	.00
	.156	1198.29	.01	1198.96	353.00	.30	4246.84	166.86	353.00	9907.83	9910.00	10150.00	10260.83
	.231	1200.04	.00	1200.78	280.61	.00	2894.95	1519.05	.00	.00	9925.00	10115.00	.00
*	.231	1200.35	.31	1201.80	157.69	.00	4414.00	.00	160.67	9954.33	9925.00	10115.00	10115.00
*	.307	1202.27	.00	1203.39	225.46	.00	3736.93	677.06	.00	.00	9785.00	10065.00	.00
*	.307	1203.13	.86	1204.08	167.22	.00	4414.00	.00	183.75	9881.25	9785.00	10065.00	10065.00
*	.390	1208.15	.00	1210.06	110.14	.22	4413.72	.07	.00	.00	9935.00	10040.00	.00
*	.390	1208.17	.02	1210.06	110.14	.33	4413.57	.10	110.14	9931.33	9935.00	10040.00	10041.47
	.465	1211.43	.00	1212.94	117.93	15.70	4091.51	17.79	.00	.00	9930.00	10030.00	.00
	.465	1211.41	-.02	1212.94	117.68	15.24	4092.49	17.27	117.93	9922.83	9930.00	10030.00	10040.76
*	.543	1213.93	.00	1214.61	232.59	23.12	2959.03	1142.85	.00	.00	9950.00	10030.00	.00
*	.543	1213.91	-.01	1214.74	159.56	24.23	3146.93	953.85	159.63	9940.37	9950.00	10030.00	10100.00
	.620	1215.09	.00	1215.52	379.46	65.56	2808.09	1251.35	.00	.00	9970.00	10060.00	.00
	.620	1215.11	.02	1215.96	145.50	84.56	3585.98	454.45	145.50	9954.50	9970.00	10060.00	10100.00

*	.696	1217.17	.00	1219.31	91.67	151.73	3859.48	113.79	.00	.00	9970.00	10030.00	.00
*	.696	1217.18	.01	1219.31	91.66	152.56	3858.02	114.42	91.66	9954.17	9970.00	10030.00	10045.83
	.770	1219.98	.00	1220.26	449.10	106.88	2376.61	1641.51	.00	.00	9970.00	10035.00	.00
*	.770	1219.89	-.09	1220.76	120.73	150.75	3476.55	497.69	121.15	9950.13	9970.00	10035.00	10071.28
*	.846	1220.24	.00	1220.86	205.70	99.28	3269.57	521.15	.00	.00	9960.00	10040.00	.00
	.846	1220.90	.67	1221.45	140.18	135.02	3337.87	417.11	140.18	9943.22	9960.00	10040.00	10083.40
*	.920	1221.50	.00	1223.20	126.18	9.82	3833.82	46.36	.00	.00	9970.00	10070.00	.00
*	.920	1221.45	-.05	1223.26	103.62	9.43	3880.57	.00	103.74	9966.26	9970.00	10070.00	10070.00
*	.998	1225.72	.00	1228.11	74.31	18.35	3850.69	20.97	.00	.00	9975.00	10035.00	.00
*	.998	1225.75	.03	1228.11	74.31	19.22	3848.80	21.98	74.31	9969.28	9975.00	10035.00	10043.59
	1.074	1229.03	.00	1230.71	75.41	9.02	3643.82	2.16	.00	.00	9965.00	10030.00	.00
	1.074	1229.00	-.04	1230.70	75.05	8.31	3644.71	1.99	75.41	9957.19	9965.00	10030.00	10032.60
*	1.148	1234.59	.00	1235.07	189.42	1282.75	1275.36	1096.89	.00	.00	9989.00	10011.00	.00
*	1.148	1234.55	-.04	1235.04	189.14	1278.46	1280.90	1095.64	189.42	9880.00	9989.00	10011.00	10069.42

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.159	1238.18	.00	1238.38	361.26	2742.17	1031.08	376.75	.00	.00	9989.00	10011.00	.00
*	1.159	1238.17	-.01	1238.37	360.93	2742.78	1031.86	375.36	361.26	9886.00	9989.00	10011.00	10247.26
*	1.237	1238.34	.00	1238.52	348.35	82.62	2130.43	2431.96	.00	.00	9975.00	10030.00	.00
*	1.237	1238.33	-.01	1238.51	348.28	82.24	2132.02	2430.75	348.35	9950.00	9975.00	10030.00	10298.35
*	1.313	1238.51	.00	1239.21	209.66	3.42	4004.59	1132.99	.00	.00	9975.00	10075.00	.00
*	1.313	1238.51	-.01	1239.21	209.32	3.31	4005.75	1131.94	209.66	9963.26	9975.00	10075.00	10172.92
*	1.388	1240.74	.00	1242.20	195.71	3.07	1714.72	3423.22	.00	.00	9985.00	10025.00	.00
*	1.388	1240.87	.13	1242.66	142.78	5.19	1903.31	3232.50	142.78	9982.22	9985.00	10025.00	10125.00
*	1.466	1245.55	.00	1247.17	169.07	.00	2752.49	2388.51	.00	.00	9980.00	10035.00	.00
*	1.466	1245.70	.16	1247.17	172.51	.00	2702.73	2438.26	179.25	9980.75	9980.00	10035.00	10160.00
	1.556	1249.07	.00	1250.20	138.48	11.89	3597.72	206.39	.00	.00	9975.00	10045.00	.00
	1.556	1248.91	-.16	1250.13	130.69	8.24	3627.86	179.90	138.48	9964.30	9975.00	10045.00	10102.78
*	1.616	1250.67	.00	1250.79	199.96	43.45	1343.29	661.26	.00	.00	9965.00	10060.00	.00
*	1.616	1250.64	-.03	1250.76	198.84	42.81	1345.32	659.87	199.96	9950.00	9965.00	10060.00	10149.96
*	1.692	1250.78	.00	1251.49	161.21	9.66	766.47	1271.86	.00	.00	9985.00	10035.00	.00
*	1.692	1250.74	-.04	1251.49	160.31	8.61	770.05	1269.34	161.20	9974.68	9985.00	10035.00	10135.88
	1.768	1253.62	.00	1253.89	273.29	.00	666.71	1381.29	.00	.00	9960.00	10045.00	.00
	1.768	1253.91	.29	1254.38	177.12	.00	1003.90	1044.10	177.12	9962.88	9960.00	10045.00	10140.00
	1.844	1259.44	.00	1261.21	74.94	.00	1989.89	58.11	.00	.00	9980.00	10020.00	.00
	1.844	1259.47	.03	1261.21	75.00	.00	1986.01	61.98	75.06	9980.82	9980.00	10020.00	10055.88
*	1.920	1262.78	.00	1263.69	76.54	.94	2039.17	7.89	.00	.00	9975.00	10030.00	.00
*	1.920	1262.77	-.02	1263.68	75.85	.89	2039.63	7.48	75.85	9973.10	9975.00	10030.00	10048.95
*	1.996	1265.60	.00	1267.22	62.99	.00	2048.00	.00	.00	.00	9965.00	10055.00	.00

*	1.996	1265.59	-.01	1267.22	62.92	.00	2048.00	.00	63.00	9974.00	9965.00	10055.00	10037.00
*	2.072	1269.12	.00	1269.37	246.41	.00	981.55	773.45	.00	.00	9965.00	10020.00	.00
*	2.072	1269.43	.30	1270.07	67.83	.00	1466.61	288.38	67.83	9972.17	9965.00	10020.00	10040.00
*	2.159	1274.66	.00	1278.12	17.20	.00	1755.00	.00	.00	.00	9991.00	10008.20	.00
*	2.159	1274.65	.00	1278.12	17.20	.00	1755.00	.00	632.73	9910.00	9991.00	10008.20	10542.73
*	2.167	1278.10	.00	1278.12	632.85	332.45	233.38	1679.17	.00	.00	9991.00	10008.20	.00
*	2.167	1278.10	.00	1278.12	632.73	332.45	233.37	1679.18	632.73	9910.00	9991.00	10008.20	10542.73
	2.186	1278.10	.00	1278.12	608.19	132.70	1411.16	701.15	.00	.00	9955.00	10075.00	.00
	2.186	1278.10	.00	1278.13	608.19	132.70	1411.13	701.17	608.19	9910.00	9955.00	10075.00	10518.19
*	2.267	1278.06	.00	1278.22	382.22	.00	1005.06	1239.94	.00	.00	9970.00	10025.00	.00
*	2.267	1278.06	.00	1278.22	382.22	.00	1003.25	1241.75	382.22	9970.00	9970.00	10025.00	10352.22

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.330	1278.58	.00	1278.73	233.30	.00	804.95	192.05	.00	.00	9965.00	10040.00	.00
*	2.330	1278.58	.00	1278.75	122.88	.00	844.08	152.92	122.88	9977.12	9965.00	10040.00	10100.00
*	2.392	1279.67	.00	1280.20	159.31	.00	536.53	460.47	.00	.00	9965.00	10030.00	.00
*	2.392	1280.61	.94	1281.52	103.38	.00	939.90	57.09	103.38	9986.62	9965.00	10030.00	10090.00
*	2.468	1283.04	.00	1283.20	273.66	.00	373.96	623.03	.00	.00	9970.00	10055.00	.00
	2.468	1283.97	.93	1284.37	101.32	.00	868.98	128.02	101.32	9983.68	9970.00	10055.00	10085.00
	2.553	1285.71	.00	1286.42	118.87	.00	902.04	94.96	.00	.00	9960.00	10030.00	.00
	2.553	1286.16	.46	1286.61	108.42	.00	865.16	131.84	108.42	9976.58	9960.00	10030.00	10085.00
*	2.640	1287.34	.00	1287.41	196.89	.00	515.07	481.93	.00	.00	9965.00	10040.00	.00
*	2.640	1287.58	.24	1287.74	110.11	.00	761.67	235.33	110.11	9969.89	9965.00	10040.00	10080.00
*	2.741	1287.96	.00	1288.22	153.09	.00	481.87	228.13	.00	.00	9965.00	10035.00	.00
*	2.741	1288.54	.58	1289.04	49.91	.00	710.00	.00	49.91	9985.09	9965.00	10035.00	10035.00
*	2.826	1289.12	.00	1289.25	173.76	.00	589.64	120.36	.00	.00	9965.00	10055.00	.00
*	2.826	1289.83	.70	1289.96	71.71	.00	710.00	.00	71.71	9983.29	9965.00	10055.00	10055.00
*	2.907	1294.58	.00	1295.49	64.13	2.81	702.72	4.47	.00	.00	9985.00	10030.00	.00
*	2.907	1294.58	.00	1295.49	63.51	2.87	702.57	4.57	63.51	9980.56	9985.00	10030.00	10044.07
*	3.009	1301.28	.00	1302.17	85.74	28.54	639.62	41.84	.00	.00	9995.00	10025.00	.00
*	3.009	1301.34	.06	1302.17	85.75	31.60	631.97	46.43	85.75	9980.79	9995.00	10025.00	10066.54
*	3.081	1303.22	.00	1303.45	75.52	6.56	697.80	5.64	.00	.00	9985.00	10035.00	.00
*	3.081	1303.20	-.03	1303.43	74.91	6.25	698.39	5.37	75.51	9974.80	9985.00	10035.00	10050.31
*	3.167	1303.93	.00	1303.99	54.28	.00	296.00	.00	.00	.00	9960.00	10035.00	.00
*	3.167	1303.92	-.01	1303.98	54.15	.00	296.00	.00	54.28	9980.18	9960.00	10035.00	10034.46
	3.214	1304.20	.00	1304.65	66.86	.00	295.90	.10	.00	.00	9950.00	10015.00	.00
*	3.214	1304.21	.00	1304.65	66.87	.00	295.89	.10	66.87	9949.66	9950.00	10015.00	10016.53
*	3.301	1308.63	.00	1308.96	53.90	1.24	291.16	3.60	.00	.00	9990.00	10025.00	.00
*	3.301	1308.63	.00	1308.95	53.83	1.24	291.19	3.57	53.90	9986.85	9990.00	10025.00	10040.75

	3.383	1311.62	.00	1312.14	32.16	.00	296.00	.00	.00	.00	9985.00	10020.00	.00
	3.383	1311.63	.01	1312.15	32.15	.00	296.00	.00	32.16	9985.95	9985.00	10020.00	10018.11
	3.460	1315.53	.00	1316.11	25.09	.00	296.00	.00	.00	.00	9975.00	10030.00	.00
	3.460	1315.53	.00	1316.11	25.09	.00	296.00	.00	25.09	9988.73	9975.00	10030.00	10013.82
	3.540	1318.76	.00	1319.01	50.44	.00	296.00	.00	.00	.00	9980.00	10050.00	.00
	3.540	1318.76	.00	1319.01	50.44	.00	296.00	.00	50.45	9993.35	9980.00	10050.00	10043.80
*	3.610	1320.77	.00	1321.02	53.92	.00	137.76	10.24	.00	.00	9975.00	10010.00	.00
*	3.610	1320.77	.00	1321.02	53.92	.00	137.72	10.28	53.92	9987.09	9975.00	10010.00	10041.01

1

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	3.678	1321.74	.00	1321.81	36.79	.00	148.00	.00	.00	.00	9960.00	10030.00	.00
*	3.678	1321.74	.00	1321.81	36.78	.00	148.00	.00	36.79	9984.76	9960.00	10030.00	10021.55

1

SUMMARY OF ERRORS AND SPECIAL NOTES

```
 TION SECNO=      .231  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .231  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    .307  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .307  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    .307  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    .390  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .390  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    .390  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    .390  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .390  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    .390  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    .543  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    .543  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    .696  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .696  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    .696  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    .696  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .696  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    .696  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    .770  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 NING SECNO=      .770  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    .846  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    .920  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    .920  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    .920  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      .920  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .920  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .920  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .998  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .998  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .998  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .998  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.148  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.148  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.148  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.148  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.148  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.148  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     1.159  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.159  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     1.237  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.237  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.313  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.313  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.388  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.388  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.388  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.388  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.388  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.466  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.466  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     1.466  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.616  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.616  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.692  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.692  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.844  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.844  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.844  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.844  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.844  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.844  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     1.920  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.920  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.996  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.996  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.996  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.996  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     2.072  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.072  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      2.159  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.159  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.159  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.159  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.159  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.159  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      2.167  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      2.167  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      2.267  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      2.267  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      2.330  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
   30OCT91      10:07:34                                                          PAGE   56

WARNING SECNO=      2.330  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      2.392  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.392  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.392  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.392  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.392  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.392  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      2.468  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      2.640  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      2.640  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      2.741  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      2.741  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      2.826  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      2.826  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      2.907  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.907  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.907  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.907  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.907  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.907  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      3.009  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.009  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.009  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.009  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      3.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      3.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      3.167  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      3.167  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      3.214  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.214  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.214  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.214  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.214  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO= 3.214 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 3.301 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 3.301 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 3.610 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 3.610 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 3.678 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 3.678 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

FLOODWAY DATA, WASH "1" - BEARDSLEY CAN
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	192.	540.	8.2	1192.8	1192.8	.0
.070	212.	512.	8.6	1195.2	1195.2	.0
.156	353.	720.	6.1	1198.3	1198.3	.0
.231	158.	457.	9.7	1200.3	1200.0	.3
.307	167.	563.	7.8	1203.2	1202.3	.9
.390	110.	401.	11.0	1208.1	1208.1	.0
.465	118.	424.	9.7	1211.4	1211.4	.0
.543	160.	623.	6.6	1213.9	1213.9	.0
.620	145.	603.	6.8	1215.1	1215.1	.0
.696	92.	371.	11.1	1217.2	1217.2	.0
.770	121.	604.	6.8	1219.9	1220.0	-.1
.846	140.	715.	5.4	1220.9	1220.2	.7
.920	104.	362.	10.8	1221.5	1221.5	.0
.998	74.	323.	12.0	1225.7	1225.7	.0
1.074	75.	353.	10.4	1229.0	1229.0	.0
1.148	189.	670.	5.5	1234.6	1234.6	.0
1.159	361.	1237.	3.4	1238.2	1238.2	.0
1.237	348.	1623.	2.9	1238.3	1238.3	.0
1.313	209.	842.	6.1	1238.5	1238.5	.0
1.388	143.	494.	10.4	1240.8	1240.7	.1
1.466	173.	533.	9.6	1245.7	1245.5	.2
1.556	131.	451.	8.5	1248.9	1249.1	-.2
1.616	199.	742.	2.8	1250.7	1250.7	.0
1.692	160.	297.	6.9	1250.8	1250.8	.0
1.768	177.	379.	5.4	1253.9	1253.6	.3
1.844	75.	212.	9.7	1259.4	1259.4	.0
1.920	76.	273.	7.5	1262.8	1262.8	.0
1.996	63.	200.	10.2	1265.6	1265.6	.0
2.072	68.	282.	6.2	1269.4	1269.1	.3
2.159	17.	118.	14.9	1274.7	1274.7	.0
2.167	633.	2033.	1.1	1278.1	1278.1	.0
2.186	608.	1952.	1.2	1278.1	1278.1	.0
2.267	382.	981.	2.3	1278.1	1278.1	.0

2.330	123.	357.	2.8	1278.6	1278.6	.0
2.392	103.	149.	6.7	1280.6	1279.7	.9
2.468	101.	210.	4.8	1283.9	1283.0	.9
2.553	108.	224.	4.4	1286.2	1285.7	.5
2.640	110.	357.	2.8	1287.5	1287.3	.2
2.741	50.	126.	5.6	1288.6	1288.0	.6
2.826	72.	242.	2.9	1289.8	1289.1	.7
2.907	64.	97.	7.3	1294.6	1294.6	.0
3.009	86.	121.	5.9	1301.4	1301.3	.1

1

FLOODWAY DATA, WASH "1" - BEARDSLEY CAN
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.081	75.	193.	3.7	1303.2	1303.2	.0
3.167	54.	142.	2.1	1303.9	1303.9	.0
3.214	67.	56.	5.3	1304.2	1304.2	.0
3.301	54.	69.	4.3	1308.6	1308.6	.0
3.383	32.	51.	5.8	1311.6	1311.6	.0
3.460	25.	49.	6.1	1315.5	1315.5	.0
3.540	50.	74.	4.0	1318.8	1318.8	.0
3.610	54.	46.	3.2	1320.8	1320.8	.0
3.678	37.	69.	2.1	1321.7	1321.7	.0

```
1*****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
 *                                        *
 *  Version   4.6.2;  May 1991            *
 *                                        *
 *  RUN DATE    01JUN92    TIME   09:01:42 *
 *****************************************
```

```
*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
```

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X     X  XXXXXXX   XXXXX            XXXXX
X     X  X        X     X          X     X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX           XXXXXXX
```

1

01JUN92 09:01:43 PAGE 1

THIS RUN EXECUTED 01JUN92 09:01:43

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
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1A.H2O — CHOLLA WASH
Latest Version
W/Floodway

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN      FILE:  1A.H2I
T3      WASH "1A" - CHOLLA WASH - TRIBUTARY TO WASH "1"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0        0        0        0        0     1249.07     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43        1       53       21       22       54       51        4        8
     42        5       26        0      110        0      200

NC     .03      .03     .035       .3       .5
QT       2     3816     3816
ET                       9.1                                                   9964.3   10102.78

          BEGIN WSEL AT 1249.07 FROM WASH "1" - BEARDSLEY CANAL WASH - X1=1.556
          CONFLUENCE WITH WASH "1"

          Q @ X1 = 0.000 TO X1 = 1.233 EQUALS Q AT 1I-CP10
          Q = 3816 CFS
```

X1	0.000	10	9955	10045	0	0	0			
GR	1250	9955	1248	9975	1242	9990	1241	10000	1242	10015
GR	1244	10035	1246	10045	1248	10060	1250	10140	1251	10170
NC	.04	.055	.035	.1	.3					
ET			9.1						9800	10084.51
X1	0.095	20	9960	10070	490	400	500			
GR	1252	9550	1250	9600	1250	9630	1251	9645	1250	9665
GR	1248.5	9730	1250	9790	1250	9820	1248	9840	1247.6	9855
GR	1248	9870	1248.5	9900	1248	9935	1248.3	9960	1248	9985
GR	1247.5	10000	1248	10020	1250	10070	1254	10110	1255	10145

1

ET			9.1						9846.79	10100
X1	0.188	17	9970	10040	450	520	490			
GR	1259	9710	1258	9750	1256	9770	1255.5	9790	1256	9830
GR	1254	9860	1252.5	9900	1253	9970	1252	9990	1251.5	10000
GR	1252	10015	1253	10040	1253.7	10100	1253.7	10180	1254	10215
GR	1258	10250	1259	10270						
ET			9.1						9725.38	10053.86
X1	0.278	17	9970	10025	470	450	480			
GR	1265	9660	1264	9690	1260	9720	1258	9735	1256	9875
GR	1255.8	9890	1256	9900	1258	9930	1258.2	9950	1258	9970
GR	1256	9990	1255.5	10000	1256	10010	1258	10025	1260	10070
GR	1264	10095	1265	10155						
NC	.06	.06	.035	.1	.3					
ET			9.1						9790.43	10055.83
X1	0.373	18	9970	10045	450	490	500			
GR	1269	9690	1268	9720	1266	9740	1264	9850	1262	9870
GR	1264	9970	1262	9980	1260	9995	1259.8	10000	1260	10020
GR	1262	10030	1264	10045	1266	10065	1268	10100	1266	10120
GR	1266	10175	1268	10195	1269	10250				
ET			9.1						9905.59	10044.41
X1	0.466	12	9960	10040	430	520	490			
GR	1274	9870	1272	9890	1270	9910	1268	9920	1266.8	9930
GR	1267	9960	1266	10000	1268	10020	1270	10040	1272	10060
GR	1274	10085	1275	10120						
ET			9.1						9820.7	10031.62
X1	0.560	13	9940	10045	430	520	500			
GR	1276.3	9800	1276	9820	1274	9830	1272	9860	1271.4	9875
GR	1272	9890	1273	9940	1272	9990	1271.3	10000	1272	10010
GR	1274	10020	1278	10045	1279	10135				
ET			9.1						9884.83	10055.26
X1	0.680	21	9945	10060	600	510	630			
GR	1287	9700	1286	9760	1284	9820	1282	9890	1280	9910
GR	1280.5	9945	1280	9970	1279	10000	1279.5	10015	1279	10025
[illegible]	1280	10045	1284	10060	1285	10110	1284	10165	1284	10220
[illegible]	1282	10230	1280	10260	1279.5	10300	1280	10320	1284	10360
GR	1285	10410								
ET			9.1						9900	10130
X1	0.765	14	9975	10030	410	480	450			
GR	1290.5	9790	1290	9810	1288	9825	1286	9975	1284	9985

```
GR   1283.7     10000     1284     10010     1286     10030     1287.5     10130     1287     10170
GR    1288      10180     1290     10195     1294     10210     1295       10255
1
   01JUN92      09:01:43                                                                          PAGE    3

ET                         9.1                                                          9959.90    10160
X1   0.848        17      9970     10040     400      440       440
GR    1297       9920     1296      9955     1294     9970      1292       9985      1291      10000
GR    1292      10020     1291     10030     1292     10040     1294       10065     1294.5    10105
GR    1294      10150     1293     10180     1293.5   10200     1292       10225     1294      10240
GR    1296      10270     1297     10320

ET                         9.1                                                          9879.09   10192.76
X1   0.951        12      9980     10010     480      560       540
GR   1303.5      9840     1302      9960     1300     9980      1298       9990      1297      10000
GR    1298      10010     1300     10050     1302     10170     1304       10215     1306      10260
GR    1308      10290     1309     10320

ET                         9.1                                                          9860      10172.34
X1   1.044        19      9990     10025     570      400       490
GR   1310.5      9730     1310      9750     1308     9790      1308       9830      1308.5     9860
GR    1308       9890     1306      9915     1307     9950      1306       9970      1304       9990
GR   1303.5     10000     1304     10010     1306     10025     1307       10055     1306      10090
GR    1305      10120     1306     10140     1308     10160     1309       10190

ET                         9.1                                                          9705      10019.99
X1   1.138        16      9985     10010     450      500       500
GR    1317       9555     1316      9600     1314     9650      1312       9710      1311.5     9725
GR    1312       9745     1312      9835     1312.5   9895      1312       9945      1310       9985
GR    1309      10000     1310     10010     1314     10020     1316       10040     1318      10050
GR    1320      10090

ET                         9.1                                                          9845      10110
X1   1.233        17      9985     10030     490      480       500
GR    1323       9655     1322      9700     1320.5   9750      1321       9845      1320       9930
GR    1318       9970     1316      9985     1315.5   10000     1316       10010     1318      10020
GR    1320      10030     1321     10110     1320     10170     1318       10190     1318      10215
GR    1320      10240     1326     10290

QT       2       3522     3522
ET                         9.1                                                          9921.54    10200

          Q @ X1 = 1.328 TO X1 = 2.078 EQUALS (Q AT I1-CP10 + Q AT CP9)/2
          Q = (3816 + 3227)/2 = 3522 CFS

X1   1.328        15      9980     10025     550      450       500
GR   1329.5      9895     1328      9960     1326     9980      1324       9990      1323.5    10000
GR    1324      10010     1326     10025     1328     10075     1326       10140     1328      10170
GR    1329      10200     1326     10235     1327     10265     1328       10305     1330      10325

ET                         9.1                                                          9675      10020.90
X1   1.419        14      9985     10025     380      450       480
GR   1335.7      9595     1334      9675     1332     9690      1331       9710      1332       9745
GR    1334       9800     1335      9860     1334.5   9920      1335       9950      1334       9985
GR    1333      10000     1334     10015     1336     10025     1338       10050
1
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ET                      9.1                                                     9604.2    10053.70
X1    1.509        19   9980    10020     530      470      480
GR   1344.5      9560   1344     9600    1342     9620     1340     9635      1339      9650
GR    1340      9690   1342     9710    1343     9770     1342     9830      1344      9910
GR    1342      9935 1342.5     9960    1342     9980     1340    10000      1342     10010
GR   1342.5    10020   1342    10030    1344    10060     1345    10090

ET                      9.1                                                      9630     10030
X1    1.604        23   9990    10030     480      500      500
GR   1351.8      9495   1350     9570    1348     9600     1350     9660    1350.5      9690
GR    1350      9720   1350     9750    1352     9785     1352     9810      1351      9845
GR    1352      9875 1352.5     9900    1352     9915     1351     9940      1352      9960
GR    1352      9975   1350     9990    1349    10000     1350    10015      1352     10030
GR   1351.5    10055   1352    10080    1354    10120

ET                      9.1                                                      9925  10160.64
X1    1.697        16   9990    10040     550      470      490
GR   1361.8      9685   1360     9770    1359     9800     1360     9835      1362      9925
GR    1360      9960   1358     9990    1357    10000     1358    10010      1360     10040
GR    1359     10070   1360    10100  1359.5    10130     1360    10150      1362     10165
GR    1363     10200

ET                      9.1                                                      9800     10170
X1    1.790        20   9970    10025     510      450      490
GR    1372      9625   1370     9820    1368     9830   1367.5     9840      1368      9860
GR  1369.5      9890   1368     9970    1366     9985     1365    10000      1366     10005
GR    1368     10015   1370    10025    1371    10040     1370    10060      1370     10130
GR    1371     10170   1370    10200    1369    10230     1370    10280    1371.5     10330

ET                      9.1                                                      9850     10185
X1    1.886        24   9970    10015     480      520      510
GR    1383      9750   1382     9845    1380     9860     1379     9870      1380      9880
GR    1382      9900   1383     9930    1382     9960     1380     9970      1378     10000
GR    1380     10015   1381    10030  1380.5    10060     1382    10090      1384     10125
GR    1382     10140   1380    10150    1379    10160     1380    10170      1381     10185
GR    1380     10200   1380    10220    1382    10250     1383    10270

ET                      9.1                                                      9880  10327.71
X1    1.977        16   9975    10045     480      440      480
GR    1395      9760   1394     9795    1392     9815   1393.8     9880    1392.5      9930
GR    1394      9975 1393.5    10000    1395    10045     1394    10085      1395     10190
GR    1394     10230   1392    10270  1391.8    10285     1392    10295      1394     10310
GR    1395     10335

ET                      9.1                                                   9806.94     10170
X1    2.078        20   9990    10040     510      520      530
GR    1412      9790   1409     9845    1410     9895     1412     9950    1412.5      9965
GR    1412      9980   1410     9990    1406    10000     1406    10020      1408     10040
GR    1410     10055   1412    10070    1412    10080   1409.5    10100      1412     10130
GR    1410     10150   1408    10175  1407.5    10185     1408    10200      1412     10270
1
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NC      .07       .07     .045       .1       .3
         2      3227     3227
ET                      9.1                                                   9819.51   10122.05

        Q @ X1 = 2.155 TO X1 = 3.508 EQUALS Q AT CP9
        Q = 3227 CFS
```

X1	2.155	19	9955	10075	420	390	410			
GR	1423	9780	1422	9840	1420	9865	1419.6	9875	1420	9890
GR	1422	9905	1423	9920	1419.6	9930	1423	9955	1422	9970
GR	1419.5	10000	1420.5	10015	1420	10045	1420.5	10075	1420	10095
	1419.6	10105	1420	10110	1422	10120	1424.5	10135		
ET			9.1						9958.43	10071.48
X1	2.250	12	9970	10015	500	500	500			
GR	1437	9930	1436	9950	1430	9970	1428	9985	1426	10000
GR	1430	10015	1432	10040	1433	10055	1432.5	10065	1434	10075
GR	1436	10085	1437	10100						
ET			9.1						9927.88	10064.75
X1	2.345	15	9960	10060	410	540	500			
GR	1449	9920	1448	9935	1446.5	9945	1447	9960	1446	9970
GR	1444	9990	1443.5	10000	1444	10015	1446	10035	1448	10060
GR	1450	10080	1452	10130	1452	10175	1454	10220	1455	10240
ET			9.1						9920.65	10059.02
X1	2.426	11	9970	10060	450	350	430			
GR	1463	9885	1460	9920	1458	9930	1459	9955	1458	9970
GR	1456	9980	1454.5	10000	1456	10025	1458	10045	1460	10060
GR	1462	10080								
ET			9.1						9970	10095
X1	2.500	18	9970	10050	310	390	390			
GR	1472	9925	1470	9935	1469	9945	1470	9950	1471	9970
GR	1470	9980	1468	9990	1466	10000	1468	10020	1470	10050
GR	1470	10070	1470	10080	1470.5	10095	1470	10110	1469.5	10125
GR	1470	10145	1476	10180	1477	10200				
ET			9.1						9981.29	10062.23
X1	2.560	11	9980	10050	350	250	320			
GR	1485	9850	1484	9865	1482	9970	1478	9980	1474	9990
GR	1473	10000	1474	10015	1476	10035	1478	10050	1480	10070
GR	1481	10080								
ET			9.1						9944.50	10090.5
X1	2.629	11	9955	10040	290	380	360			
GR	1493	9925	1492	9940	1490	9955	1488	9985	1487.5	10000
GR	1488	10015	1488	10040	1490	10080	1494	10110	1496	10125
GR	1496	10175								

1

ET			9.1						9930.60	10024.70
X1	2.727	13	9980	10035	510	480	520			
GR	1511	9895	1510	9910	1506	9930	1504	9940	1502.5	9950
GR	1503	9960	1502	9980	1500	9995	1499.5	10000	1500	10010
GR	1510	10035	1514	10050	1515	10075				
ET			9.1						9825.92	10021.28
X1	2.826	18	9965	10020	550	440	520			
GR	1540	9740	1530	9820	1520	9830	1518	9835	1520	9860
	1522	9870	1524	9890	1522	9900	1522	9920	1524	9950
GR	1525	9965	1524	9975	1522	9985	1521	10000	1522	10010
GR	1524	10020	1526	10050	1528	10090				
ET			9.1						9853.67	10039.50
X1	2.920	18	9970	10030	440	520	500			

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GR     1550      9800      1540      9850      1534      9880      1536      9890      1538      9905
GR     1540      9940      1541      9955      1540      9970      1534      9990      1533.5    10000
GR     1534      10005     1536      10015     1538      10030     1540      10045     1542      10055
GR     1544      10070     1546      10090     1547      10100

ET                         9.1                                                         9935.44   10076.41
X1     3.019     16        9980      10030     510       510       520
GR     1570      9915      1560      9930      1556      9950      1554      9965      1555      9980
GR     1554      9995      1553      10000     1554      10005     1556      10015     1558      10025
GR     1558.5    10030     1558      10040     1557      10055     1558      10065     1560      10090
GR     1561      10110

ET                         9.1                                                         9920.30   10069.60
X1     3.116     13        9970      10035     470       540       510
GR     1590      9900      1580      9920      1578      9935      1576      9955      1577      9970
GR     1576      9985      1575      10000     1576      10010     1578      10020     1578.5    10035
GR     1578      10050     1580      10070     1581      10080

ET                         9.1                                                         9965.01   10063.72
X1     3.214     10        9970      10025     520       490       520
GR     1605      9930      1600      9960      1594      9970      1592      9985      1591      10000
GR     1592      10010     1594      10025     1596      10060     1600      10075     1602      10090

NC     .07       .07       .07       .1        .3
ET                         9.1                                                         9928.43   10040.46
X1     3.312     9         9970      10020     520       480       520
GR     1630      9915      1622      9930      1620      9970      1618      9980      1616      10000
GR     1620      10020     1622      10030     1624      10055     1625      10090

ET                         9.1                                                         9978.29   10061.40
       3.407     8         9980      10040     480       510       500
GR     1650      9965      1640      9980      1634      10000     1636      10010     1638      10040
GR     1640      10050     1642      10070     1643      10080
1
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ET                         9.1                                                         9953.99   10038.79
X1     3.508     10        9955      10035     520       530       530
GR     1670      9935      1660      9955      1654      9990      1653      10000     1654      10005
GR     1656      10015     1658      10025     1660      10035     1662      10050     1663      10065

ET                         9.1                                                         9949.34   10029.36

X1     3.587     19        9955      10030     400       400       420
GR     1695      9800      1694      9825      1690      9850      1681.5    9875      1682.5    9900
GR     1682      9910      1680      9920      1675      9955      1670      9990      1669.5    10000
GR     1670      10010     1676      10030     1678      10050     1680      10090     1682      10120
GR     1683      10145     1682      10170     1684      10185     1685      10205

QT     2         2527      2527
ET                         9.1                                                         9970.53   10081.17
          Q @ X1 = 3.587 TO X1 = 4.242 EQUALS Q AT I1-CP9
          Q = 2527 CFS

       3.678     9         9975      10035     550       420       480
GR     1705      9955      1700      9975      1696      9990      1695      10000     1696      10010
GR     1698      10025     1700      10035     1700      10070     1702      10090

ET                         9.1                                                         9965.34   10024.57
X1     3.773     7         9965      10025     500       500       500
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GR     1730       9930       1720       9965       1712      10000       1720      10025       1726      10045
GR     1728      10065       1729      10095

ET                           9.1                                                             9970.97   10024.28
       3.864         10       9970      10025        480        480        480
GR     1760       9880       1750       9900       1748       9930       1749       9950       1748       9970
GR     1742       9990       1741      10000       1742      10010       1748      10025       1750      10070

ET                           9.1                                                             9968.50   10055.98
X1     3.956         10       9970      10050        480        500        490
GR     1780       9945       1770       9970       1766       9985       1765      10000       1766      10010
GR     1768      10025       1770      10050       1772      10070       1774      10085       1775      10100

ET                           9.1                                                             9902.70   10023.48
X1     4.049         14       9960      10005        420        490        490
GR     1810       9820       1800       9840       1799       9860       1800       9885       1792       9915
GR     1792       9925       1794       9940       1796       9960       1794       9975       1790       9990
GR   1789.5      10000       1790      10005       1800      10040       1810      10065

ET                           9.1                                                             9906.05   10014.74
X1     4.100         14       9965      10015        240        270        270
GR     1830       9850       1820       9865       1810       9905       1808       9925       1807       9935
GR     1808       9950       1808       9965       1806       9980       1804      10000       1810      10015
GR     1820      10030       1824      10050       1826      10065       1827      10075
1
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ET                           9.1                                                             9909.46   10015.67
       4.150         10       9910      10010        290        150        260
GR     1840       9860       1830       9890       1825       9910       1820       9930       1822       9960
GR     1824       9980       1823      10000       1824      10010       1830      10040       1832      10080

ET                           9.1                                                             9970.66   10053.91
X1     4.242         10       9980      10030        430        500        490
GR     1850       9950       1840       9980       1838       9990     1837.5      10000       1838      10015
GR     1840      10030       1842      10040       1844      10065       1846      10085       1850      10100
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK         EG         HV         HL      OLOSS  L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB        ACH       AROB        VOL        TWA  R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH        XNR        WTN      ELMIN  SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL      IDC       ICONT      CORAR     TOPWID  ENDST


 *PROF 1
0

 CCHV=     .300 CEHV=     .500
 *SECNO  .000

          BEGIN WSEL AT 1249.07 FROM WASH "1" - BEARDSLEY CANAL WASH - X1=1.556
          CONFLUENCE WITH WASH "1"

          Q @ X1 = 0.000 TO X1 = 1.233 EQUALS Q AT 1I-CP10
          Q = 3816 CFS

     .000       8.07    1249.07       .00    1249.07    1250.17       1.10        .00        .00    1250.00
    3816.0         .0     3594.7     221.3         .0      418.1       53.9         .0         .0    1246.00
```

```
      .00       .00      8.60      4.10      .000      .035      .030      .000   1241.00   9964.30
   .004693       0.        0.        0.         0         0         0       .00    138.50  10102.80


CCHV=     .100 CEHV=     .300
*SECNO  .095

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.62

      .095      3.95   1251.45       .00       .00   1251.61       .16      1.35       .09   1248.30
    3816.0    2542.0    1264.3       9.7     870.8     334.6      10.5       9.5       3.7   1250.00
       .04      2.92      3.78       .92      .040      .035      .055      .000   1247.50   9563.73
   .001799      490.      500.      400.         1         0         0       .00    520.77  10084.51


*SECNO  .188

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .188      3.38   1254.88   1254.88       .00   1255.67       .79      1.76       .19   1253.00
    3816.0    1383.4    1646.2     786.4     220.2     185.4     225.8      19.5       8.5   1253.00
       .06      6.28      8.88      3.48      .040      .035      .055      .000   1251.50   9846.79
   .011949      450.      490.      520.        20        12         0       .00    375.92  10222.71


1
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    SECNO     DEPTH     CWSEL     CRIWS    WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB     ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB     XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR    ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .278
      .278      3.79   1259.29       .00       .00   1259.79       .50      4.09       .03   1258.00
    3816.0    2774.3    1011.5      30.2     526.1     150.5      18.5      26.6      12.3   1258.00
       .09      5.27      6.72      1.63      .040      .035      .055      .000   1255.50   9725.38
   .006580      470.      480.      450.         4         0         0       .00    328.48  10053.86


CCHV=     .100 CEHV=     .300
*SECNO  .373

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .373      5.28   1265.08   1265.08       .00   1266.23      1.15      3.67       .19   1264.00
    3816.0    1018.6    2788.2       9.2     282.2     283.7       5.9      33.4      15.5   1264.00
       .10      3.61      9.83      1.57      .060      .035      .060      .000   1259.80   9790.43
   .009195      450.      500.      490.        20        11         0       .00    265.40  10055.83
```

*SECNO .466
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.466	4.44	1270.44	1270.44	.00	1272.03	1.58	5.42	.13	1267.00
3816.0	983.3	2831.6	1.1	152.0	255.3	1.0	38.6	17.6	1270.00
.11	6.47	11.09	1.09	.060	.035	.060	.000	1266.00	9905.59
.014577	430.	490.	520.	3	15	0	.00	138.82	10044.41

*SECNO .560

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

.560	4.56	1275.86	.00	.00	1276.44	.58	4.31	.10	1273.00
3816.0	1714.9	2101.1	.0	387.2	291.6	.0	44.4	19.4	1278.00
.14	4.43	7.21	.00	.060	.035	.000	.000	1271.30	9820.70
.006191	430.	500.	520.	4	0	0	.00	210.92	10031.62

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .680

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.680	3.15	1282.15	1282.15	.00	1283.15	1.00	5.60	.13	1280.50
3816.0	387.6	2452.9	975.5	89.8	260.9	201.4	52.9	22.8	1284.00
.16	4.32	9.40	4.84	.060	.035	.060	.000	1279.00	9884.83
.015196	600.	630.	510.	2	19	0	.00	280.45	10341.48

*SECNO .765
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.765	4.93	1288.63	1288.63	.00	1289.57	.94	4.86	.01	1286.00
3816.0	756.2	2240.6	819.2	246.6	228.6	256.6	59.5	26.1	1286.00
.18	3.07	9.80	3.19	.060	.035	.060	.000	1283.70	9820.25
.008032	410.	450.	480.	3	14	0	.00	364.51	10184.75

*SECNO .848
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
[illegible]0 CRITICAL DEPTH ASSUMED

.848	4.35	1295.35	1295.35	.00	1296.39	1.04	3.92	.03	1294.00
3816.0	12.9	2434.8	1368.3	6.8	246.7	362.8	66.2	29.4	1292.00
.19	1.90	9.87	3.77	.060	.035	.060	.000	1291.00	9959.90
.010127	400.	440.	440.	20	15	0	.00	300.29	10260.19

```
*SECNO  .951
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .951      6.01   1303.01   1303.01       .00   1304.13      1.12      5.17       .02   1300.00
  3816.0     209.5    1748.7    1857.8      81.1     150.3     413.3      74.2      33.2   1298.00
     .21      2.58     11.63      4.49      .060      .035      .060      .000   1297.00   9879.09
 .008867      480.      540.      560.         3        14         0       .00    313.66  10192.76


*SECNO 1.044
1
  01JUN92      09:01:43                                                                          PAGE   12


   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   1.044      4.91   1308.41   1308.41       .00   1309.34       .93      4.39       .02   1304.00
  3816.0     929.9    1580.8    1305.3     236.9     144.4     300.6      81.2      37.0   1306.00
     .23      3.92     10.95      4.34      .060      .035      .060      .000   1303.50   9781.77
 .010107      570.      490.      400.         3        15         0       .00    379.93  10172.34


*SECNO 1.138
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   1.138      5.00   1314.00   1314.00       .00   1314.83       .83      4.74       .01   1310.00
  3816.0    2462.0    1280.3      73.7     630.4     112.4      20.0      89.0      41.0   1310.00
     .25      3.91     11.39      3.69      .060      .035      .060      .000   1309.00   9650.08
 .009732      450.      500.      500.         4         5         0       .00    369.91  10019.99


*SECNO 1.233
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   1.233      5.79   1321.29   1321.29       .00   1322.12       .83      4.04       .00   1316.00
  3816.0     882.2    1978.5     955.3     285.5     204.4     303.4      97.7      46.1   1320.00
     .27      3.09      9.68      3.15      .060      .035      .060      .000   1315.50   9723.58
 .006993      490.      500.      480.         6         8         0       .00    527.19  10250.77


*SECNO 1.328

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

          Q @ X1 = 1.328 TO X1 = 2.078 EQUALS (Q AT I1-CP10 + Q AT CP9)/2
          Q = (3816 + 3227)/2 = 3522 CFS

   1.328      5.39   1328.89   1328.89       .00   1329.76       .87      3.48       .01   1326.00
```

3522.0	141.7	1938.0	1442.3	54.8	199.9	465.2	106.2	51.2	1326.00
.29	2.59	9.69	3.10	.060	.035	.060	.000	1323.50	9921.54
.007210	550.	500.	450.	20	12	0	.00	387.65	10313.88

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.419
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.419	4.18	1335.18	1335.18	.00	1335.85	.67	5.01	.02	1334.00
3522.0	3076.5	445.5	.0	491.3	53.9	.0	112.4	55.0	1336.00
.31	6.26	8.27	.00	.060	.035	.000	.000	1331.00	9619.44
.022196	380.	480.	450.	14	14	0	.00	401.46	10020.90

*SECNO 1.509

3265 DIVIDED FLOW

1.509	4.58	1343.58	.00	.00	1344.04	.46	8.17	.02	1342.00
3522.0	2721.8	714.4	85.8	582.2	90.7	32.0	119.9	59.9	1342.50
.34	4.67	7.88	2.68	.060	.035	.060	.000	1339.00	9604.20
.011670	530.	480.	470.	6	0	0	.00	427.47	10053.70

*SECNO 1.604

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.604	3.64	1351.64	1351.64	.00	1352.37	.73	8.19	.08	1350.00
3522.0	2893.7	627.6	.7	482.4	63.6	1.0	126.8	64.6	1352.00
.36	6.00	9.87	.69	.060	.035	.060	.000	1348.00	9501.66
.026711	480.	500.	500.	3	15	0	.00	411.07	10062.01

*SECNO 1.697

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.697	4.42	1361.42	1361.42	.00	1362.23	.81	9.38	.03	1358.00
3522.0	1156.6	1517.9	847.4	307.8	150.9	206.1	134.1	69.7	1360.00
.38	3.76	10.06	4.11	.060	.035	.060	.000	1357.00	9703.00
.012913	550.	490.	470.	5	11	0	.00	421.33	10160.64

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.790

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.790	5.70	1370.70	1370.70	.00	1371.50	.80	4.83	.00	1368.00
3522.0	1206.1	1958.3	357.6	343.8	213.5	178.8	142.0	74.9	1370.00
.40	3.51	9.17	2.00	.060	.035	.060	.000	1365.00	9751.78
.007775	510.	490.	450.	11	11	0	.00	520.01	10303.32

*SECNO 1.886

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.886	4.44	1382.44	1382.44	.00	1383.31	.87	4.69	.02	1380.00
3522.0	544.9	1584.4	1392.6	137.9	154.6	342.2	149.9	80.1	1380.00
.42	3.95	10.25	4.07	.060	.035	.060	.000	1378.00	9803.67
.011311	480.	510.	520.	20	19	0	.00	382.01	10258.70

*SECNO 1.977

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.977	2.91	1394.71	1394.71	.00	1395.31	.60	8.37	.03	1394.00
3522.0	1877.4	292.1	1352.5	304.1	45.9	216.9	156.2	84.7	1395.00
.44	6.17	6.37	6.24	.060	.035	.060	.000	1391.80	9770.20
.033105	480.	480.	440.	12	23	0	.00	494.84	10327.71

*SECNO 2.078

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

2.078	5.08	1411.08	1411.08	.00	1412.09	1.01	7.60	.12	1410.00
3522.0	357.5	2138.8	1025.7	137.1	213.8	283.9	163.4	89.7	1408.00
.46	2.61	10.00	3.61	.060	.035	.060	.000	1406.00	9806.94

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   .008186      510.      530.      520.         4        14         0       .00    342.19  10253.83


CCHV=     .100 CEHV=     .300
 CNO 2.155

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

          Q @ X1 = 2.155 TO X1 = 3.508 EQUALS Q AT CP9
          Q = 3227 CFS

    2.155      2.84   1422.34   1422.34       .00   1423.21       .87      5.56       .01   1423.00
   3227.0     843.9    1816.7     566.4     160.3     209.2      93.7     168.5      92.6   1420.50
      .48      5.27      8.68      6.04      .070      .045      .070      .000   1419.50   9819.51
  .029429      420.      410.      390.        20        11         0       .00    276.01  10122.05


*SECNO 2.250

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.250      7.47   1433.47   1433.47       .00   1435.30      1.83      9.34       .29   1430.00
   3227.0      68.0    2834.2     324.8      20.1     246.2      86.7     173.2      94.8   1430.00
      .49      3.38     11.51      3.74      .070      .045      .070      .000   1426.00   9958.43
  .012894      500.      500.      500.         5        20         0       .00    113.05  10071.48


*SECNO 2.345
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.345      4.97   1448.47   1448.47       .00   1449.90      1.43      7.78       .04   1447.00
   3227.0     152.5    3073.3       1.3      39.8     313.7       1.1     177.2      96.3   1448.00
      .51      3.83      9.80      1.13      .070      .045      .070      .000   1443.50   9927.88
  .019245      410.      500.      540.        20        19         0       .00    136.88  10064.75


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 2.426
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.426      5.37   1459.87   1459.87       .00   1461.28      1.41      7.82       .00   1458.00
   3227.0     210.3    3016.7        .0      63.5     307.0        .0     180.8      97.6   1460.00
      .52      3.31      9.83       .00      .070      .045      .000      .000   1454.50   9920.65
  .017119      450.      430.      350.        10         8         0       .00    138.36  10059.02
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*SECNO 2.500
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.500	5.59	1471.59	1471.59	.00	1472.68	1.09	6.75	.03	1471.00
3227.0	225.3	2386.2	615.5	59.4	252.0	159.4	184.5	99.2	1470.00
.53	3.79	9.47	3.86	.070	.045	.070	.000	1466.00	9927.06
.017989	310.	390.	390.	20	8	0	.00	227.20	10154.26

*SECNO 2.560

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.560	6.11	1479.11	1479.11	.00	1481.07	1.96	5.70	.26	1478.00
3227.0	2.8	3212.3	11.9	1.5	285.1	6.2	187.2	100.2	1478.00
.54	1.84	11.27	1.93	.070	.045	.070	.000	1473.00	9977.23
.018260	350.	320.	250.	3	8	0	.00	83.86	10061.09

*SECNO 2.629

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.629	3.90	1491.40	1491.40	.00	1492.77	1.37	6.93	.06	1490.00
3227.0	17.4	2674.2	535.5	7.4	266.5	103.4	190.0	101.2	1488.00
.55	2.36	10.03	5.18	.070	.045	.070	.000	1487.50	9944.50
.020143	290.	360.	380.	13	14	0	.00	146.00	10090.50

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.727
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.727	6.38	1505.88	1505.88	.00	1507.65	1.77	9.53	.12	1502.00
3227.0	768.0	2459.0	.0	134.0	208.4	.0	194.2	102.6	1510.00
.56	5.73	11.80	.00	.070	.045	.000	.000	1499.50	9930.60
.017044	510.	520.	480.	11	14	0	.00	94.10	10024.70

*SECNO 2.826

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.826	6.10	1524.10	1524.10	.00	1525.18	1.08	11.93	.07	1525.00
3227.0	2462.8	764.2	.0	301.0	87.3	.1	198.7	104.3	1524.00
.58	8.18	8.76	.04	.070	.045	.070	.000	1518.00	9825.90
.030415	550.	520.	440.	17	10	0	.00	173.28	10021.57

*SECNO 2.920

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.920	5.77	1539.27	1539.27	.00	1540.75	1.48	11.69	.12	1540.00
3227.0	950.6	2262.8	13.5	160.1	205.7	6.0	202.8	105.9	1538.00
.60	5.94	11.00	2.25	.070	.045	.070	.000	1533.50	9853.66
.020846	440.	500.	520.	3	11	0	.00	140.59	10039.51

*SECNO 3.019
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.019	5.91	1558.91	1558.91	.00	1560.37	1.46	10.64	.00	1555.00
3227.0	1058.7	2009.3	159.0	146.1	181.9	47.2	207.2	107.6	1558.50
.61	7.25	11.05	3.37	.070	.045	.070	.000	1553.00	9935.44
.020346	510.	520.	510.	18	5	0	.00	140.98	10076.41

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.116
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.116	4.96	1579.96	1579.96	.00	1581.32	1.36	10.13	.01	1577.00
3227.0	766.3	2293.2	167.4	125.5	218.7	44.9	211.6	109.3	1578.50
.63	6.11	10.49	3.73	.070	.045	.070	.000	1575.00	9920.30
.020139	470.	510.	540.	17	15	0	.00	149.31	10069.60

*SECNO 3.214
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.214	5.99	1596.99	1596.99	.00	1598.82	1.82	9.01	.14	1594.00
3227.0	23.0	2912.4	291.5	7.5	257.1	71.6	215.8	110.7	1594.00
.64	3.09	11.33	4.07	.070	.045	.070	.000	1591.00	9965.01
.015185	520.	520.	490.	15	11	0	.00	98.71	10063.72

CCHV= .100 CEHV= .300
*SECNO 3.312
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.312	6.87	1622.87	1622.87	.00	1624.42	1.55	10.65	.03	1620.00
3227.0	414.3	2700.8	111.8	75.5	253.4	23.4	219.9	112.0	1620.00

.65	5.49	10.66	4.78	.070	.070	.070	.000	1616.00	9928.37
.029479	520.	520.	480.	20	8	0	.00	112.49	10040.86

CNO 3.407
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.407	7.14	1641.14	1641.14	.00	1643.08	1.94	17.05	.12	1640.00
3227.0	2.5	3056.5	167.9	1.0	268.4	27.9	223.6	113.1	1638.00
.67	2.58	11.39	6.02	.070	.070	.070	.000	1634.00	9978.29
.040025	480.	500.	510.	10	8	0	.00	83.12	10061.40

*SECNO 3.508

3.508	7.51	1660.51	.00	.00	1661.96	1.46	18.84	.05	1660.00
3227.0	.4	3225.2	1.4	.3	332.9	1.0	227.5	114.1	1660.00
.68	1.40	9.69	1.50	.070	.070	.070	.000	1653.00	9953.99
.031773	520.	530.	530.	5	0	0	.00	84.80	10038.79

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CNO 3.587

3.587	6.30	1675.80	1675.74	.00	1677.67	1.87	15.59	.12	1675.00
3227.0	5.5	3221.5	.0	2.3	293.3	.0	230.5	114.9	1676.00
.69	2.42	10.99	.00	.070	.070	.000	.000	1669.50	9949.34
.043930	400.	420.	400.	6	15	0	.00	80.03	10029.36

*SECNO 3.678

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
Q @ X1 = 3.587 TO X1 = 4.242 EQUALS Q AT I1-CP9
Q = 2527 CFS

3.678	6.12	1701.12	1701.12	.00	1702.48	1.36	18.43	.05	1700.00
2527.0	6.4	2341.8	178.8	2.5	242.0	45.4	233.7	115.9	1700.00
.71	2.56	9.68	3.94	.070	.070	.070	.000	1695.00	9970.53
.033030	550.	480.	420.	14	8	0	.00	110.64	10081.17

*SECNO 3.773

3.773	7.86	1719.86	.00	.00	1721.70	1.85	19.08	.14	1720.00
2527.0	.0	2527.0	.0	.0	231.8	.0	236.7	116.9	1720.00
.72	.00	10.90	.00	.000	.070	.000	.000	1712.00	9965.61
.044568	500.	500.	500.	3	0	0	.00	58.96	10024.57

*SECNO 3.864
7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.864	6.71	1747.71	1747.71	.00	1749.77	2.06	21.96	.06	1748.00
2527.0	.0	2527.0	.0	.0	219.3	.0	239.2	117.5	1748.00
.73	.00	11.52	.00	.000	.070	.000	.000	1741.00	9970.97
.046981	480.	480.	480.	13	8	0	.00	53.31	10024.28

*SECNO 3.956

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.956	5.60	1770.60	1770.48	.00	1772.05	1.46	22.22	.06	1770.00
2527.0	.8	2522.6	3.5	.4	260.3	1.8	241.9	118.3	1770.00
.75	1.89	9.69	1.98	.070	.070	.070	.000	1765.00	9968.50
.043795	480.	490.	500.	7	15	0	.00	87.47	10055.98

*SECNO 4.049

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.049	5.78	1795.28	1795.28	.00	1796.58	1.30	20.96	.02	1796.00
2527.0	729.9	1395.0	402.1	95.3	138.3	48.8	244.9	119.4	1790.00
.76	7.65	10.09	8.24	.070	.070	.070	.000	1789.50	9902.70
.043551	420.	490.	490.	9	8	0	.00	108.17	10023.48

*SECNO 4.100
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.100	5.90	1809.90	1809.90	.00	1811.18	1.28	10.76	.00	1808.00
2527.0	703.0	1824.0	.0	106.3	184.8	.0	246.6	120.0	1810.00
.77	6.62	9.87	.00	.070	.070	.000	.000	1804.00	9906.05
.038961	240.	270.	270.	9	5	0	.00	108.69	10014.74

*SECNO 4.150
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.150	5.13	1825.13	1825.13	.00	1826.49	1.36	11.91	.02	1825.00
2527.0	.0	2516.4	10.6	.0	268.5	3.2	248.3	120.6	1824.00
.78	.05	9.37	3.30	.070	.070	.070	.000	1820.00	9909.46
.052844	290.	260.	150.	15	15	0	.00	106.21	10015.67

*SECNO 4.242

4.242	5.61	1843.11	.00	.00	1844.51	1.40	18.01	.01	1840.00
2527.0	65.8	2323.0	138.1	14.5	236.9	28.9	251.4	121.7	1840.00
.79	4.53	9.81	4.79	.070	.070	.070	.000	1837.50	9970.66
.027071	430.	490.	500.	6	0	0	.00	83.25	10053.91

1

PROFILE FOR STREAM WASH "1A" - CHOLLA WASH

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION SECNO	1241. CUMDIS	1341.	1441.	1541.	1641.	1741.	1841.	1941.	2041.	2141.
.00	0.	IE	.	.	.	.	.	.	.	.	.
	50.	IE	.	.	.	.	.	.	.	.	.
	100.	IE	.	.	.	.	.	.	.	.	.
	150.	IE	.	.	.	.	.	.	.	.	.
	200.	IE	.	.	.	.	.	.	.	.	.
	250.	IE	.	.	.	.	.	.	.	.	.
	300.	IE	.	.	.	.	.	.	.	.	.
	350.	IE	.	.	.	.	.	.	.	.	.
	400.	CE	.	.	.	.	.	.	.	.	.
	450.	CE	.	.	.	.	.	.	.	.	.
.09	500.	CE	.	.	.	.	.	.	.	.	.
	550.	CE	.	.	.	.	.	.	.	.	.
	600.	CE	.	.	.	.	.	.	.	.	.
	650.	CE	.	.	.	.	.	.	.	.	.
	700.	CE	.	.	.	.	.	.	.	.	.
	750.	CE	.	.	.	.	.	.	.	.	.
	800.	CEM	.	.	.	.	.	.	.	.	.
	850.	CEM	.	.	.	.	.	.	.	.	.
	900.	CEM	.	.	.	.	.	.	.	.	.
	950.	CEM	.	.	.	.	.	.	.	.	.
.19	1000.	.EM	.	.	.	.	.	.	.	.	.
	1050.	CWE	.	.	.	.	.	.	.	.	.
	1100.	CWE	.	.	.	.	.	.	.	.	.
	1150.	CIE	.	.	.	.	.	.	.	.	.
	1200.	CIE	.	.	.	.	.	.	.	.	.
	1250.	CIE	.	.	.	.	.	.	.	.	.
	1300.	CIE	.	.	.	.	.	.	.	.	.
	1350.	CIE	.	.	.	.	.	.	.	.	.
	1400.	CIE	.	.	.	.	.	.	.	.	.
	1450.	CIE	.	.	.	.	.	.	.	.	.
.28	1500.	CIE	.	.	.	.	.	.	.	.	.
	1550.	CIE	.	.	.	.	.	.	.	.	.
	1600.	C E	.	.	.	.	.	.	.	.	.
	1650.	C EM	.	.	.	.	.	.	.	.	.
	1700.	C EM	.	.	.	.	.	.	.	.	.
	1750.	C EM	.	.	.	.	.	.	.	.	.
	1800.	C EM	.	.	.	.	.	.	.	.	.
	1850.	C EM	.	.	.	.	.	.	.	.	.
	1900.	C EM	.	.	.	.	.	.	.	.	.
	1950.	C EM	.	.	.	.	.	.	.	.	.
.37	2000.	. WE	.	.	.	.	.	.	.	.	.
	2050.	. WE	.	.	.	.	.	.	.	.	.
	2100.	. IE	.	.	.	.	.	.	.	.	.
	2150.	. IE	.	.	.	.	.	.	.	.	.
	2200.	. IE	.	.	.	.	.	.	.	.	.
	2250.	. IE	.	.	.	.	.	.	.	.	.
	2300.	. IE	.	.	.	.	.	.	.	.	.
	2350.	. IE	.	.	.	.	.	.	.	.	.

	2400.	.	IE	.	.	.	.	.	.	.	.	.	.
	2450.	.	IE	.	.	.	.	.	.	.	.	.	.
.47	2500.	.	E	.	.	.	.	.	.	.	.	.	.
	2550.	C	E	.	.	.	.	.	.	.	.	.	.
	2600.	C	E	.	.	.	.	.	.	.	.	.	.
	2650.	C	E	.	.	.	.	.	.	.	.	.	.
	2700.	C	E	.	.	.	.	.	.	.	.	.	.
	2750.	C	E	.	.	.	.	.	.	.	.	.	.
	2800.	C	E	.	.	.	.	.	.	.	.	.	.
	2850.	C	E	.	.	.	.	.	.	.	.	.	.
	2900.	C	ER	.	.	.	.	.	.	.	.	.	.
	2950.	C	ER	.	.	.	.	.	.	.	.	.	.
.56	3000.	C	WE	.	.	.	.	.	.	.	.	.	.
	3050.	C	IE	.	.	.	.	.	.	.	.	.	.
	3100.	C	IE	.	.	.	.	.	.	.	.	.	.
	3150.	C	IE	.	.	.	.	.	.	.	.	.	.
	3200.	C	IE	.	.	.	.	.	.	.	.	.	.
	3250.	C	IE	.	.	.	.	.	.	.	.	.	.
	3300.	C	IE	.	.	.	.	.	.	.	.	.	.
	3350.	C	IE	.	.	.	.	.	.	.	.	.	.
	3400.	C	E	.	.	.	.	.	.	.	.	.	.
	3450.	C	E	.	.	.	.	.	.	.	.	.	.
	3500.	C	E	.	.	.	.	.	.	.	.	.	.
	3550.	C	E	.	.	.	.	.	.	.	.	.	.
.68	3600.	.	E	.	.	.	.	.	.	.	.	.	.
	3650.	.	E	.	.	.	.	.	.	.	.	.	.
	3700.	.	EM	.	.	.	.	.	.	.	.	.	.
	3750.	.	EM	.	.	.	.	.	.	.	.	.	.
	3800.	.	WE	.	.	.	.	.	.	.	.	.	.
	3850.	.	WE	.	.	.	.	.	.	.	.	.	.
	3900.	.	IE	.	.	.	.	.	.	.	.	.	.
	3950.	.	IE	.	.	.	.	.	.	.	.	.	.
	4000.	.	IE	.	.	.	.	.	.	.	.	.	.
.76	4050.	.	IE	.	.	.	.	.	.	.	.	.	.
	4100.	.	IE	.	.	.	.	.	.	.	.	.	.
	4150.	.	IE	.	.	.	.	.	.	.	.	.	.
	4200.	.	E	.	.	.	.	.	.	.	.	.	.
	4250.	.	E	.	.	.	.	.	.	.	.	.	.
	4300.	.	E	.	.	.	.	.	.	.	.	.	.
	4350.	.	E	.	.	.	.	.	.	.	.	.	.
	4400.	.	E	.	.	.	.	.	.	.	.	.	.
	4450.	.	EM	.	.	.	.	.	.	.	.	.	.
.85	4500.	.	WE	.	.	.	.	.	.	.	.	.	.
	4550.	.	IE	.	.	.	.	.	.	.	.	.	.
	4600.	.	IE	.	.	.	.	.	.	.	.	.	.
	4650.	.	IE	.	.	.	.	.	.	.	.	.	.
	4700.	.	IE	.	.	.	.	.	.	.	.	.	.
	4750.	.	IE	.	.	.	.	.	.	.	.	.	.
	4800.	.	IE	.	.	.	.	.	.	.	.	.	.
	4850.	.	IE	.	.	.	.	.	.	.	.	.	.
	4900.	.	IE	.	.	.	.	.	.	.	.	.	.
	4950.	.	E	.	.	.	.	.	.	.	.	.	.
	5000.	.	E	.	.	.	.	.	.	.	.	.	.
.95	5050.	.	E	.	.	.	.	.	.	.	.	.	.
	5100.	.	E	.	.	.	.	.	.	.	.	.	.
	5150.	.	E	.	.	.	.	.	.	.	.	.	.
	5200.	.	E	.	.	.	.	.	.	.	.	.	.
	5250.	.	WE	.	.	.	.	.	.	.	.	.	.
	5300.	.	WE	.	.	.	.	.	.	.	.	.	.
	5350.	.	IE	.	.	.	.	.	.	.	.	.	.
	5400.	.	IE	.	.	.	.	.	.	.	.	.	.
	5450.	.	IE	.	.	.	.	.	.	.	.	.	.

	5500.	.	IE	.	.	.	.	.	.	.	.	.	.
1.04	5550.	.	IE	.	.	.	.	.	.	.	.	.	.
	5600.	.	IE	.	.	.	.	.	.	.	.	.	.
	5650.	.	IE	.	.	.	.	.	.	.	.	.	.
	5700.	.	IE	.	.	.	.	.	.	.	.	.	.
	5750.	.	IE	.	.	.	.	.	.	.	.	.	.
	5800.	.	E	.	.	.	.	.	.	.	.	.	.
	5850.	.	E	.	.	.	.	.	.	.	.	.	.
	5900.	.	E	.	.	.	.	.	.	.	.	.	.
	5950.	.	E	.	.	.	.	.	.	.	.	.	.
	6000.	.	EM	.	.	.	.	.	.	.	.	.	.
1.14	6050.	.	EM	.	.	.	.	.	.	.	.	.	.
	6100.	.	EM	.	.	.	.	.	.	.	.	.	.
	6150.	.	WE	.	.	.	.	.	.	.	.	.	.
	6200.	.	IE	.	.	.	.	.	.	.	.	.	.
	6250.	.	IE	.	.	.	.	.	.	.	.	.	.
	6300.	.	IE	.	.	.	.	.	.	.	.	.	.
	6350.	.	IE	.	.	.	.	.	.	.	.	.	.
	6400.	.	IE	.	.	.	.	.	.	.	.	.	.
	6450.	.	IE	.	.	.	.	.	.	.	.	.	.
	6500.	.	IE	.	.	.	.	.	.	.	.	.	.
1.23	6550.	.	IE	.	.	.	.	.	.	.	.	.	.
	6600.	.	E	.	.	.	.	.	.	.	.	.	.
	6650.	.	E	.	.	.	.	.	.	.	.	.	.
	6700.	.	E	.	.	.	.	.	.	.	.	.	.
	6750.	.	E	.	.	.	.	.	.	.	.	.	.
	6800.	.	EM.	.	.	.	.	.	.	.	.	.	.
	6850.	.	WE.	.	.	.	.	.	.	.	.	.	.
	6900.	.	IE.	.	.	.	.	.	.	.	.	.	.
	6950.	.	IE.	.	.	.	.	.	.	.	.	.	.
	7000.	.	IE.	.	.	.	.	.	.	.	.	.	.
1.33	7050.	.	IE.	.	.	.	.	.	.	.	.	.	.
	7100.	.	IE.	.	.	.	.	.	.	.	.	.	.
	7150.	.	IE.	.	.	.	.	.	.	.	.	.	.
	7200.	.	IE.	.	.	.	.	.	.	.	.	.	.
	7250.	.	E.	.	.	.	.	.	.	.	.	.	.
	7300.	.	E.	.	.	.	.	.	.	.	.	.	.
	7350.	.	E.	.	.	.	.	.	.	.	.	.	.
	7400.	.	E.	.	.	.	.	.	.	.	.	.	.
	7450.	.	E.	.	.	.	.	.	.	.	.	.	.
1.42	7500.	.	ER	.	.	.	.	.	.	.	.	.	.
	7550.	C	IE	.	.	.	.	.	.	.	.	.	.
	7600.	C	IE	.	.	.	.	.	.	.	.	.	.
	7650.	C	IE	.	.	.	.	.	.	.	.	.	.
	7700.	C	IE	.	.	.	.	.	.	.	.	.	.
	7750.	C	IE	.	.	.	.	.	.	.	.	.	.
	7800.	C	E	.	.	.	.	.	.	.	.	.	.
	7850.	C	E	.	.	.	.	.	.	.	.	.	.
	7900.	C	E	.	.	.	.	.	.	.	.	.	.
	7950.	C	E	.	.	.	.	.	.	.	.	.	.
1.51	8000.	C	E	.	.	.	.	.	.	.	.	.	.
	8050.	C	E	.	.	.	.	.	.	.	.	.	.
	8100.	C	E	.	.	.	.	.	.	.	.	.	.
	8150.	C	WE	.	.	.	.	.	.	.	.	.	.
	8200.	C	IE	.	.	.	.	.	.	.	.	.	.
	8250.	C	IE	.	.	.	.	.	.	.	.	.	.
	8300.	C	IE	.	.	.	.	.	.	.	.	.	.
	8350.	C	IE	.	.	.	.	.	.	.	.	.	.
	8400.	C	.E	.	.	.	.	.	.	.	.	.	.
	8450.	C	.E	.	.	.	.	.	.	.	.	.	.
1.60	8500.	.	.E	.	.	.	.	.	.	.	.	.	.
	8550.	.	.E	.	.	.	.	.	.	.	.	.	.

	8600.	.	.E	.	.	.	.	.	.	.	.	.
	8650.	.	.E	.	.	.	.	.	.	.	.	.
	8700.	.	.WE	.	.	.	.	.	.	.	.	.
	8750.	.	.IE	.	.	.	.	.	.	.	.	.
	8800.	.	.IE	.	.	.	.	.	.	.	.	.
	8850.	.	.IE	.	.	.	.	.	.	.	.	.
	8900.	.	.IE	.	.	.	.	.	.	.	.	.
	8950.	.	. E	.	.	.	.	.	.	.	.	.
1.70	9000.	.	. E	.	.	.	.	.	.	.	.	.
	9050.	.	. E	.	.	.	.	.	.	.	.	.
	9100.	.	. E	.	.	.	.	.	.	.	.	.
	9150.	.	. E	.	.	.	.	.	.	.	.	.
	9200.	.	. WE	.	.	.	.	.	.	.	.	.
	9250.	.	. IE	.	.	.	.	.	.	.	.	.
	9300.	.	. IE	.	.	.	.	.	.	.	.	.
	9350.	.	. IE	.	.	.	.	.	.	.	.	.
	9400.	.	. IE	.	.	.	.	.	.	.	.	.
1.79	9450.	.	. IE	.	.	.	.	.	.	.	.	.
	9500.	.	. E	.	.	.	.	.	.	.	.	.
	9550.	.	. E	.	.	.	.	.	.	.	.	.
	9600.	.	. E	.	.	.	.	.	.	.	.	.
	9650.	.	. WE	.	.	.	.	.	.	.	.	.
	9700.	.	. IE	.	.	.	.	.	.	.	.	.
	9750.	.	. IE	.	.	.	.	.	.	.	.	.
	9800.	.	. IE	.	.	.	.	.	.	.	.	.
	9850.	.	. IE	.	.	.	.	.	.	.	.	.
	9900.	.	. E	.	.	.	.	.	.	.	.	.
	9950.	.	. E	.	.	.	.	.	.	.	.	.
1.89	10000.	.	. E	.	.	.	.	.	.	.	.	.
	10050.	.	. E	.	.	.	.	.	.	.	.	.
	10100.	.	. E	.	.	.	.	.	.	.	.	.
	10150.	.	. IE	.	.	.	.	.	.	.	.	.
	10200.	.	. IE	.	.	.	.	.	.	.	.	.
	10250.	.	. IE	.	.	.	.	.	.	.	.	.
	10300.	.	. E	.	.	.	.	.	.	.	.	.
	10350.	.	. E	.	.	.	.	.	.	.	.	.
	10400.	.	. E	.	.	.	.	.	.	.	.	.
1.98	10450.	.	. E	.	.	.	.	.	.	.	.	.
	10500.	.	. IE	.	.	.	.	.	.	.	.	.
	10550.	.	. IE	.	.	.	.	.	.	.	.	.
	10600.	.	. IE	.	.	.	.	.	.	.	.	.
	10650.	.	. E	.	.	.	.	.	.	.	.	.
	10700.	.	. E	.	.	.	.	.	.	.	.	.
	10750.	.	. E	.	.	.	.	.	.	.	.	.
	10800.	.	. WE	.	.	.	.	.	.	.	.	.
	10850.	.	. IE	.	.	.	.	.	.	.	.	.
	10900.	.	. IE	.	.	.	.	.	.	.	.	.
	10950.	.	. IE	.	.	.	.	.	.	.	.	.
2.08	11000.	.	. E	.	.	.	.	.	.	.	.	.
	11050.	.	. E	.	.	.	.	.	.	.	.	.
	11100.	.	. E	.	.	.	.	.	.	.	.	.
	11150.	.	. WE	.	.	.	.	.	.	.	.	.
	11200.	.	. IE	.	.	.	.	.	.	.	.	.
	11250.	.	. IE	.	.	.	.	.	.	.	.	.
	11300.	.	. IE	.	.	.	.	.	.	.	.	.
	11350.	.	. E	.	.	.	.	.	.	.	.	.
2.15	11400.	.	. E	.	.	.	.	.	.	.	.	.
	11450.	.	. E	.	.	.	.	.	.	.	.	.
	11500.	.	. E	.	.	.	.	.	.	.	.	.
	11550.	.	. WE.	.	.	.	.	.	.	.	.	.
	11600.	.	. IE.	.	.	.	.	.	.	.	.	.
	11650.	.	. IE.	.	.	.	.	.	.	.	.	.

	11700.	.	.	IE.	.	.	.	.	.	.	.	.
	11750.	.	.	IE.	.	.	.	.	.	.	.	.
	11800.	.	.	IE.	.	.	.	.	.	.	.	.
	11850.	.	.	IE.	.	.	.	.	.	.	.	.
2.25	11900.	.	.	EM	.	.	.	.	.	.	.	.
	11950.	.	.	WE	.	.	.	.	.	.	.	.
	12000.	.	.	IE	.	.	.	.	.	.	.	.
	12050.	.	.	IE	.	.	.	.	.	.	.	.
	12100.	.	.	IE	.	.	.	.	.	.	.	.
	12150.	.	.	IE	.	.	.	.	.	.	.	.
	12200.	.	.	E	.	.	.	.	.	.	.	.
	12250.	.	.	E	.	.	.	.	.	.	.	.
	12300.	.	.	WE	.	.	.	.	.	.	.	.
	12350.	.	.	IE	.	.	.	.	.	.	.	.
2.35	12400.	.	.	IE	.	.	.	.	.	.	.	.
	12450.	.	.	IE	.	.	.	.	.	.	.	.
	12500.	.	.	.E	.	.	.	.	.	.	.	.
	12550.	.	.	.E	.	.	.	.	.	.	.	.
	12600.	.	.	.E	.	.	.	.	.	.	.	.
	12650.	.	.	.WE	.	.	.	.	.	.	.	.
	12700.	.	.	.IE	.	.	.	.	.	.	.	.
	12750.	.	.	.IE	.	.	.	.	.	.	.	.
	12800.	.	.	.IE	.	.	.	.	.	.	.	.
2.43	12850.	.	.	.IE	.	.	.	.	.	.	.	.
	12900.	.	.	.IE	.	.	.	.	.	.	.	.
	12950.	.	.	. E	.	.	.	.	.	.	.	.
	13000.	.	.	. E	.	.	.	.	.	.	.	.
	13050.	.	.	. WE	.	.	.	.	.	.	.	.
	13100.	.	.	. IE	.	.	.	.	.	.	.	.
	13150.	.	.	. IE	.	.	.	.	.	.	.	.
2.50	13200.	.	.	. E	.	.	.	.	.	.	.	.
	13250.	.	.	. E	.	.	.	.	.	.	.	.
	13300.	.	.	. E	.	.	.	.	.	.	.	.
	13350.	.	.	. WE	.	.	.	.	.	.	.	.
	13400.	.	.	. IE	.	.	.	.	.	.	.	.
	13450.	.	.	. IE	.	.	.	.	.	.	.	.
	13500.	.	.	. IE	.	.	.	.	.	.	.	.
2.56	13550.	.	.	. IE	.	.	.	.	.	.	.	.
	13600.	.	.	. IE	.	.	.	.	.	.	.	.
	13650.	.	.	. E	.	.	.	.	.	.	.	.
	13700.	.	.	. EM	.	.	.	.	.	.	.	.
	13750.	.	.	. WE	.	.	.	.	.	.	.	.
	13800.	.	.	. IE	.	.	.	.	.	.	.	.
	13850.	.	.	. IE	.	.	.	.	.	.	.	.
2.63	13900.	.	.	. E	.	.	.	.	.	.	.	.
	13950.	.	.	. E	.	.	.	.	.	.	.	.
	14000.	.	.	. EM	.	.	.	.	.	.	.	.
	14050.	.	.	. WE	.	.	.	.	.	.	.	.
	14100.	.	.	. IE	.	.	.	.	.	.	.	.
	14150.	.	.	. IE	.	.	.	.	.	.	.	.
	14200.	.	.	. IE	.	.	.	.	.	.	.	.
	14250.	.	.	. IE	.	.	.	.	.	.	.	.
	14300.	.	.	. EM	.	.	.	.	.	.	.	.
	14350.	.	.	. ER	.	.	.	.	.	.	.	.
2.73	14400.	.	.	. WE	.	.	.	.	.	.	.	.
	14450.	.	.	. IE	.	.	.	.	.	.	.	.
	14500.	.	.	. IE	.	.	.	.	.	.	.	.
	14550.	.	.	. IE	.	.	.	.	.	.	.	.
	14600.	.	.	. EM	.	.	.	.	.	.	.	.
	14650.	.	.	. WE	.	.	.	.	.	.	.	.
	14700.	.	.	. IE	.	.	.	.	.	.	.	.
	14750.	.	.	. IE	.	.	.	.	.	.	.	.

	14800.	.	.	.	IE	.	.	.	.	.	.	.
	14850.	.	.	.	IE	.	.	.	.	.	.	.
	14900.	.	.	.	EM.	.	.	.	.	.	.	.
2.83	14950.	.	.	.	EM.	.	.	.	.	.	.	.
	15000.	.	.	.	WE.	.	.	.	.	.	.	.
	15050.	.	.	.	IE.	.	.	.	.	.	.	.
	15100.	.	.	.	IE.	.	.	.	.	.	.	.
	15150.	.	.	.	IE.	.	.	.	.	.	.	.
	15200.	.	.	.	IEM	.	.	.	.	.	.	.
	15250.	.	.	.	EM	.	.	.	.	.	.	.
	15300.	.	.	.	WE	.	.	.	.	.	.	.
	15350.	.	.	.	IE	.	.	.	.	.	.	.
	15400.	.	.	.	IE	.	.	.	.	.	.	.
2.92	15450.	.	.	.	IEM	.	.	.	.	.	.	.
	15500.	.	.	.	IEM	.	.	.	.	.	.	.
	15550.	.	.	.	EM	.	.	.	.	.	.	.
	15600.	.	.	.	WE	.	.	.	.	.	.	.
	15650.	.	.	.	IE	.	.	.	.	.	.	.
	15700.	.	.	.	IE	.	.	.	.	.	.	.
	15750.	.	.	.	IE	.	.	.	.	.	.	.
	15800.	.	.	.	.EM	.	.	.	.	.	.	.
	15850.	.	.	.	.EM	.	.	.	.	.	.	.
	15900.	.	.	.	.IE	.	.	.	.	.	.	.
3.02	15950.	.	.	.	.IE	.	.	.	.	.	.	.
	16000.	.	.	.	.IE	.	.	.	.	.	.	.
	16050.	.	.	.	. E	.	.	.	.	.	.	.
	16100.	.	.	.	. WE	.	.	.	.	.	.	.
	16150.	.	.	.	. IE	.	.	.	.	.	.	.
	16200.	.	.	.	. IE	.	.	.	.	.	.	.
	16250.	.	.	.	. IE	.	.	.	.	.	.	.
	16300.	.	.	.	. E	.	.	.	.	.	.	.
	16350.	.	.	.	. WE	.	.	.	.	.	.	.
	16400.	.	.	.	. IE	.	.	.	.	.	.	.
3.12	16450.	.	.	.	. IE	.	.	.	.	.	.	.
	16500.	.	.	.	. E	.	.	.	.	.	.	.
	16550.	.	.	.	. E	.	.	.	.	.	.	.
	16600.	.	.	.	. WE	.	.	.	.	.	.	.
	16650.	.	.	.	. IE	.	.	.	.	.	.	.
	16700.	.	.	.	. IE	.	.	.	.	.	.	.
	16750.	.	.	.	. IE	.	.	.	.	.	.	.
	16800.	.	.	.	. IE	.	.	.	.	.	.	.
	16850.	.	.	.	. EM	.	.	.	.	.	.	.
	16900.	.	.	.	. WE	.	.	.	.	.	.	.
	16950.	.	.	.	. IE	.	.	.	.	.	.	.
3.21	17000.	.	.	.	. IE	.	.	.	.	.	.	.
	17050.	.	.	.	. IE	.	.	.	.	.	.	.
	17100.	.	.	.	. IEM	.	.	.	.	.	.	.
	17150.	.	.	.	. WE	.	.	.	.	.	.	.
	17200.	.	.	.	. IE	.	.	.	.	.	.	.
	17250.	.	.	.	. IE	.	.	.	.	.	.	.
	17300.	.	.	.	. IE	.	.	.	.	.	.	.
	17350.	.	.	.	. WE	.	.	.	.	.	.	.
	17400.	.	.	.	. IE	.	.	.	.	.	.	.
	17450.	.	.	.	. IE	.	.	.	.	.	.	.
3.31	17500.	.	.	.	. E	.	.	.	.	.	.	.
	17550.	.	.	.	. WE.	.	.	.	.	.	.	.
	17600.	.	.	.	. IE.	.	.	.	.	.	.	.
	17650.	.	.	.	. IE.	.	.	.	.	.	.	.
	17700.	.	.	.	. IE.	.	.	.	.	.	.	.
	17750.	.	.	.	. IE.	.	.	.	.	.	.	.
	17800.	.	.	.	. E.	.	.	.	.	.	.	.
	17850.	.	.	.	. WE	.	.	.	.	.	.	.

	17900.	.	.	.	.	.	IE	.	.	.	.	.	.	.
	17950.	.	.	.	.	.	IE	.	.	.	.	.	.	.
3.41	18000.	.	.	.	.	.	IE	.	.	.	.	.	.	.
	18050.	.	.	.	C	.	IE	.	.	.	.	.	.	.
	18100.	.	C.	.	.	.	WE	.	.	.	.	.	.	.
	18150.	C	.	.	.	.	IE	.	.	.	.	.	.	.
	18200.	C	.	.	.	.	IE	.	.	.	.	.	.	.
	18250.	C	.	.	.	.	IE	.	.	.	.	.	.	.
	18300.	C	.	.	.	.	IE	.	.	.	.	.	.	.
	18350.	C	.	.	.	.	.EM	.	.	.	.	.	.	.
	18400.	C	.	.	.	.	.WE	.	.	.	.	.	.	.
	18450.	C	.	.	.	.	.IE	.	.	.	.	.	.	.
	18500.	C	.	.	.	.	.IE	.	.	.	.	.	.	.
3.51	18550.	C	.	.	.	.	.IE	.	.	.	.	.	.	.
	18600.	C	.	.	.	.	.IE	.	.	.	.	.	.	.
	18650.	C	.	.	.	.	. EM	.	.	.	.	.	.	.
	18700.	C	.	.	.	.	. WE	.	.	.	.	.	.	.
	18750.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	18800.	C	.	.	.	.	. IEM	.	.	.	.	.	.	.
	18850.	C	.	.	.	.	. IEM	.	.	.	.	.	.	.
	18900.	.	.	C	.	.	. EM	.	.	.	.	.	.	.
3.59	18950.	.	.	.	.	.	. WE	.	.	.	.	.	.	.
	19000.	.	.	.	.	.	. IEM	.	.	.	.	.	.	.
	19050.	.	.	.	.	.	. IEM	.	.	.	.	.	.	.
	19100.	.	.	.	.	.	. EM	.	.	.	.	.	.	.
	19150.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	19200.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	19250.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	19300.	.	.	.	.	.	. EM	.	.	.	.	.	.	.
	19350.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	19400.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
3.68	19450.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	19500.	.	.	.	C.	.	. E	.	.	.	.	.	.	.
	19550.	.	. C	.	.	.	. WE	.	.	.	.	.	.	.
	19600.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	19650.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	19700.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	19750.	C	.	.	.	.	. IEM	.	.	.	.	.	.	.
	19800.	C	.	.	.	.	. EM	.	.	.	.	.	.	.
	19850.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	19900.	C	.	.	.	.	. IEM.	.	.	.	.	.	.	.
3.77	19950.	C	.	.	.	.	. IEM.	.	.	.	.	.	.	.
	20000.	C	.	.	.	.	. IEM.	.	.	.	.	.	.	.
	20050.	C	.	.	.	.	. WE.	.	.	.	.	.	.	.
	20100.	C	.	.	.	.	. IE.	.	.	.	.	.	.	.
	20150.	C	.	.	.	.	. IEM	.	.	.	.	.	.	.
	20200.	C	.	.	.	.	. WE	.	.	.	.	.	.	.
	20250.	C	.	.	.	.	. IE	.	.	.	.	.	.	.
	20300.	. C	.	.	.	.	. IE	.	.	.	.	.	.	.
	20350.	.	.	. C	.	.	. EM	.	.	.	.	.	.	.
3.86	20400.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	20450.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	20500.	.	.	.	.	.	. IE	.	.	.	.	.	.	.
	20550.	.	.	.	.	.	. .WE	.	.	.	.	.	.	.
	20600.	.	.	.	.	.	. .IE	.	.	.	.	.	.	.
	20650.	.	.	.	.	.	. .IE	.	.	.	.	.	.	.
	20700.	.	.	.	.	.	. .IE	.	.	.	.	.	.	.
	20750.	.	.	.	.	.	. . EM	.	.	.	.	.	.	.
	20800.	.	.	.	.	.	. . IE	.	.	.	.	.	.	.
	20850.	.	.	.	.	.	. . IE	.	.	.	.	.	.	.
3.96	20900.	.	.	.	.	.	. . IE	.	.	.	.	.	.	.
	20950.	.	.	.	.	.	. . EM	.	.	.	.	.	.	.

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        21000.  .        .        .        .        .        .  WE    .        .        .        .        .
        21050.  .        .        .        .        .        .  IE    .        .        .        .        .
        21100.  .        .        .        .        .        .  IEM   .        .        .        .        .
        21150.  .        .        .        .        .        .   EM   .        .        .        .        .
        21200.  .        .        .        .        .        .  WEM   .        .        .        .        .
        21250.  .        .        .        .        .        .  IEM   .        .        .        .        .
        21300.  .        .        .        .        .        .  IEM   .        .        .        .        .
        21350.  .        .        .        .        .        .   E M  .        .        .        .        .
   4.05 21400.  .        .        .        .        .        .  WEM   .        .        .        .        .
        21450.  .        .        .        .        .        .  IEM   .        .        .        .        .
        21500.  .        .        .        .        .        .  IE M  .        .        .        .        .
        21550.  .        .        .        .        .        .   E M  .        .        .        .        .
        21600.  .        .        .        .        .        .  IEM   .        .        .        .        .
   4.10 21650.  .        .        .        .        .        .  IE M. .        .        .        .        .
        21700.  .        .        .        .        .        .   E M. .        .        .        .        .
        21750.  .        .        .        .        .        .  WEM. .        .        .        .        .
        21800.  .        .        .        .        .        .  IEM. .        .        .        .        .
        21850.  .        .        .        .        .        .   EM. .        .        .        .        .
        21900.  .        .        .        .        .        .   EM. .        .        .        .        .
   4.15 21950.  .        .        .        .        .        .   WE. .        .        .        .        .
        22000.  .        .        .        .        C        .   IE. .        .        .        .        .
        22050.  .        .        .C       .        .        .   IE. .        .        .        .        .
        22100.  .  C     .        .        .        .        .  IEM   .        .        .        .        .
        22150.  C        .        .        .        .        .   EM   .        .        .        .        .
        22200.  C        .        .        .        .        .   EM   .        .        .        .        .
        22250.  C        .        .        .        .        .   IE   .        .        .        .        .
        22300.  C        .        .        .        .        .   IE   .        .        .        .        .
        22350.  C        .        .        .        .        .  IEM   .        .        .        .        .
   4.24 22400.  C        .        .        .        .        .   EM   .        .        .        .        .
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T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE:  1A.H2I
T3      WASH "1A" - CHOLLA WASH - TRIBUTARY TO WASH "1"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0     1248.91     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0


1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 *PROF 2
0

 CCHV=     .300 CEHV=     .500
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*SECNO  .000

3470 ENCROACHMENT STATIONS=     9964.3   10102.8  TYPE=      1  TARGET=      138.480

        BEGIN WSEL AT 1249.07 FROM WASH "1" - BEARDSLEY CANAL WASH - X1=1.556
        CONFLUENCE WITH WASH "1"

        Q @ X1 = 0.000 TO X1 = 1.233 EQUALS Q AT 1I-CP10
        Q = 3816 CFS

     .000      7.91   1248.91       .00   1249.07   1250.10      1.19       .00       .00 100000.00
   3816.0        .0    3625.2     190.8        .0     405.3      45.2        .0        .0   1246.00
     .00       .00      8.94      4.22      .000      .035      .030      .000   1241.00   9965.90
  .005156        0.        0.        0.         0         0         0       .00    130.50  10096.40


CCHV=     .100 CEHV=     .300
*SECNO  .095

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41


3470 ENCROACHMENT STATIONS=     9800.0   10084.5  TYPE=      1  TARGET=      284.510
     .095      4.14   1251.64       .00   1251.45   1251.94       .30      1.75       .09   1248.30
   3816.0    2123.1    1675.9      17.0     508.6     355.5      13.3       7.5       2.3   1250.00
     .03      4.17      4.71      1.28      .040      .035      .055      .000   1247.50   9800.00
 .002582      490.      500.      400.         2         0         0       .00    284.51  10084.51


*SECNO  .188

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
  01JUN92      09:01:43                                                                                    PAGE   23


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9846.8   10100.0  TYPE=      1  TARGET=      253.210
     .188      3.47   1254.97   1254.97   1254.88   1255.98      1.01      2.35       .21   1253.00
   3816.0    1572.0    1833.3     410.7     230.6     191.3      96.9      15.0       5.2   1253.00
     .05      6.82      9.58      4.24      .040      .035      .055      .000   1251.50   9846.79
  .013343      450.      490.      520.        20        15         0       .00    253.21  10100.00


*SECNO  .278

3301 HV CHANGED MORE THAN HVINS
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3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.57

3470 ENCROACHMENT STATIONS= 9725.4 10053.9 TYPE= 1 TARGET= 328.480

.278	3.92	1259.42	.00	1259.29	1259.87	.44	3.83	.06	1258.00
3816.0	2780.4	997.9	37.7	559.6	158.1	22.5	21.9	8.3	1258.00
.07	4.97	6.31	1.68	.040	.035	.055	.000	1255.50	9725.38
.005442	470.	480.	450.	4	0	0	.00	328.48	10053.86

CCHV= .100 CEHV= .300
*SECNO .373

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9790.4 10055.8 TYPE= 1 TARGET= 265.400

.373	5.28	1265.08	1265.08	1265.08	1266.23	1.15	3.30	.21	1264.00
3816.0	1018.9	2787.9	9.2	282.4	283.8	5.9	28.9	11.5	1264.00
.09	3.61	9.82	1.57	.060	.035	.060	.000	1259.80	9790.43
.009186	450.	500.	490.	20	11	0	.00	265.40	10055.83

*SECNO .466
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9905.6 10044.4 TYPE= 1 TARGET= 138.820

.466	4.44	1270.44	1270.44	1270.44	1272.03	1.58	5.41	.13	1267.00
3816.0	983.3	2831.6	1.1	152.2	255.6	1.0	34.1	13.6	1270.00
.10	6.46	11.08	1.10	.060	.035	.060	.000	1266.00	9905.59
.014526	430.	490.	520.	3	15	0	.00	138.82	10044.41

*SECNO .560

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3470 ENCROACHMENT STATIONS= 9820.7 10031.6 TYPE= 1 TARGET= 210.920

.560	4.56	1275.86	.00	1275.86	1276.44	.58	4.31	.10	1273.00
3816.0	1714.9	2101.1	.0	386.9	291.4	.0	39.9	15.5	100000.00
.12	4.43	7.21	.00	.060	.035	.000	.000	1271.30	9820.71
.006203	430.	500.	520.	4	0	0	.00	210.89	10031.61

*SECNO .680

3301 HV CHANGED MORE THAN HVINS

MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9884.8 10055.3 TYPE= 1 TARGET= 170.430

.680	3.73	1282.73	1282.73	1282.15	1284.08	1.35	5.39	.23	1280.50
3816.0	596.3	3219.7	.0	124.7	324.4	.0	47.9	18.2	100000.00
.14	4.78	9.93	.00	.060	.035	.000	.000	1279.00	9884.83
.013028	600.	630.	510.	2	15	0	.00	170.40	10055.23

*SECNO .765
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9900.0 10130.0 TYPE= 1 TARGET= 230.000

.765	5.02	1288.72	1288.72	1288.63	1289.89	1.18	4.78	.02	1286.00
3816.0	652.4	2446.0	717.5	166.1	233.1	196.5	53.2	20.2	1286.00
.16	3.93	10.49	3.65	.060	.035	.060	.000	1283.70	9900.00
.008972	410.	450.	480.	2	11	0	.00	230.00	10130.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .848
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9959.9 10160.0 TYPE= 1 TARGET= 200.100

.848	4.88	1295.88	1295.88	1295.35	1297.18	1.30	3.94	.04	1294.00
3816.0	31.4	2918.7	865.8	12.2	284.3	231.3	58.8	22.4	1292.00
.17	2.57	10.27	3.74	.060	.035	.060	.000	1291.00	9959.90
.009074	400.	440.	440.	20	8	0	.00	200.10	10160.00

*SECNO .951
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9879.1 10192.8 TYPE= 1 TARGET= 313.670

.951	6.05	1303.05	1303.05	1303.01	1304.13	1.08	4.79	.02	1300.00
3816.0	216.9	1735.3	1863.8	84.7	151.4	419.8	66.2	25.5	1298.00
.19	2.56	11.46	4.44	.060	.035	.060	.000	1297.00	9879.09
.008528	480.	540.	560.	4	11	0	.00	313.67	10192.76

*SECNO 1.044
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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3470 ENCROACHMENT STATIONS=     9860.0   10172.3  TYPE=      1  TARGET=      312.340
    1.044      4.85   1308.35   1308.35   1308.41   1309.37      1.02      4.49       .01   1304.00
   3816.0     899.0    1612.0    1304.9     206.4     142.3     291.9      73.1      28.9   1306.00
      .21      4.36     11.33      4.47      .060      .035      .060      .000   1303.50   9868.88
  .011030      570.      490.      400.         3        15         0       .00    301.68  10170.56


*SECNO 1.138
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9705.0   10020.0  TYPE=      1  TARGET=      314.990
    1.138      4.96   1313.96   1313.96   1314.00   1314.92       .95      5.23       .01   1310.00
   3816.0    2406.7    1333.4      75.9     570.2     111.6      19.6      80.3      32.2   1310.00
      .23      4.22     11.95      3.87      .060      .035      .060      .000   1309.00   9705.00
  .010836      450.      500.      500.         3         8         0       .00    314.90  10019.90


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.233
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9845.0   10110.0  TYPE=      1  TARGET=      265.000
    1.233      6.24   1321.74   1321.74   1321.29   1322.96      1.22      4.46       .08   1316.00
   3816.0    1155.8    2414.3     245.9     286.1     224.6      99.2      87.7      35.4   1320.00
      .25      4.04     10.75      2.48      .060      .035      .060      .000   1315.50   9845.00
  .007612      490.      500.      480.         5        11         0       .00    265.00  10110.00


*SECNO 1.328
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9921.5   10200.0  TYPE=      1  TARGET=      278.460

          Q @ X1 = 1.328 TO X1 = 2.078 EQUALS (Q AT I1-CP10 + Q AT CP9)/2
          Q = (3816 + 3227)/2 = 3522 CFS

    1.328      5.76   1329.26   1329.26   1328.89   1330.23       .98      3.57       .02   1326.00
   3522.0     211.5    2133.1    1177.4      76.3     216.5     349.7      94.9      38.5   1326.00
      .27      2.77      9.85      3.37      .060      .035      .060      .000   1323.50   9921.54
  .006701      550.      500.      450.        20        10         0       .00    278.46  10200.00


*SECNO 1.419
     MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9675.0   10020.9  TYPE=      1  TARGET=      345.900
    1.419      4.12   1335.12   1335.12   1335.18   1335.93       .81      5.03       .02   1334.00
   3522.0    3070.1     451.9        .0     440.9      51.9        .0     100.4      41.5 100000.00
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      .28      6.96      8.71       .00      .060      .035      .000      .000   1331.00   9675.00
   .025681     380.      480.      450.        13        13         0       .00    345.62  10020.62


CNO 1.509

3265 DIVIDED FLOW

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57


3470 ENCROACHMENT STATIONS=     9604.2   10053.7  TYPE=      1  TARGET=      449.500
     1.509      4.65   1343.65       .00   1343.58   1344.08       .42      8.11       .04   1342.00
    3522.0    2718.1     712.6      91.3     608.6      93.7      34.5     107.8      46.1   1342.50
       .31      4.47      7.61      2.65      .060      .035      .060      .000   1339.00   9604.20
   .010429      530.      480.      470.         5         0         0       .00    431.35  10053.70


*SECNO 1.604

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9630.0   10030.0  TYPE=      1  TARGET=      400.000
     1.604      4.49   1352.49   1352.49   1351.64   1353.22       .73      6.55       .09   1350.00
    3522.0    2532.6     989.4        .0     510.4      97.0        .0     115.2      50.7 100000.00
       .33      4.96     10.20       .00      .060      .035      .000      .000   1348.00   9630.00
   .018135      480.      500.      500.         5        10         0       .00    398.98  10030.00


*SECNO 1.697
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9925.0   10160.6  TYPE=      1  TARGET=      235.640
     1.697      4.77   1361.77   1361.77   1361.42   1362.89      1.12      7.85       .12   1358.00
    3522.0     534.4    1833.9    1153.8     110.3     168.3     248.1     122.0      54.5   1360.00
       .35      4.84     10.89      4.65      .060      .035      .060      .000   1357.00   9929.08
   .013102      550.      490.      470.         3         8         0       .00    231.56  10160.64


*SECNO 1.790

5 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9800.0 10170.0 TYPE= 1 TARGET= 370.000

1.790	5.71	1370.71	1370.71	1370.70	1371.70	.99	5.24	.01	1368.00
3522.0	1296.3	2111.0	114.7	333.5	214.0	68.5	128.4	57.7	1370.00
.37	3.89	9.86	1.67	.060	.035	.060	.000	1365.00	9800.00
.008961	510.	490.	450.	9	11	0	.00	348.19	10158.37

*SECNO 1.886

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9850.0 10185.0 TYPE= 1 TARGET= 335.000

1.886	4.71	1382.71	1382.71	1382.44	1383.74	1.02	4.97	.01	1380.00
3522.0	648.7	1773.7	1099.6	151.5	167.1	257.1	135.2	61.4	1380.00
.39	4.28	10.61	4.28	.060	.035	.060	.000	1378.00	9850.00
.010923	480.	510.	520.	20	12	0	.00	285.72	10185.00

*SECNO 1.977
3280 CROSS SECTION 1.98 EXTENDED .07 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9880.0 10327.7 TYPE= 1 TARGET= 447.710

1.977	3.27	1395.07	1395.07	1394.71	1395.69	.63	7.86	.04	1394.00
3522.0	1143.7	509.5	1868.8	177.5	69.6	310.1	141.2	65.2	1395.00
.41	6.44	7.32	6.03	.060	.035	.060	.000	1391.80	9880.00
.029926	480.	480.	440.	13	18	0	.00	447.71	10327.71

*SECNO 2.078

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9806.9 10170.0 TYPE= 1 TARGET= 363.060

2.078	5.59	1411.59	1411.59	1411.08	1412.77	1.18	6.89	.17	1410.00
3522.0	607.1	2458.5	456.4	205.0	239.6	152.7	148.1	69.7	1408.00
.42	2.96	10.26	2.99	.060	.035	.060	.000	1406.00	9806.94
.007395	510.	530.	520.	4	14	0	.00	294.53	10170.00

CCHV= .100 CEHV= .300
*SECNO 2.155

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9819.5 10122.0 TYPE= 1 TARGET= 302.540

Q @ X1 = 2.155 TO X1 = 3.508 EQUALS Q AT CP9
Q = 3227 CFS

2.155	2.85	1422.35	1422.35	1422.34	1423.21	.87	5.20	.03	1423.00
3227.0	844.4	1816.3	566.3	160.9	209.8	94.0	153.1	72.3	1420.50
.44	5.25	8.66	6.03	.070	.045	.070	.000	1419.50	9819.51
.029187	420.	410.	390.	20	8	0	.00	276.21	10122.05

*SECNO 2.250

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9958.4 10071.5 TYPE= 1 TARGET= 113.051

2.250	7.50	1433.50	1433.50	1433.47	1435.30	1.80	9.18	.28	1430.00
3227.0	69.1	2828.0	329.9	20.4	247.6	88.5	157.8	74.6	1430.00
.45	3.38	11.42	3.73	.070	.045	.070	.000	1426.00	9958.43
.012603	500.	500.	500.	5	20	0	.00	113.05	10071.48

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.345
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible] PROBABLE MINIMUM SPECIFIC ENERGY
[illegible] CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9927.9 10064.8 TYPE= 1 TARGET= 136.870

2.345	5.00	1448.50	1448.50	1448.47	1449.90	1.41	7.60	.04	1447.00
3227.0	154.4	3071.1	1.4	40.5	315.9	1.2	161.9	76.0	1448.00
.47	3.81	9.72	1.18	.070	.045	.070	.000	1443.50	9927.88

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   .018776      410.      500.      540.        20        14         0       .00    136.87  10064.75


*SECNO 2.426
3693 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.7   10059.0  TYPE=      1  TARGET=      138.369
     2.426       5.36   1459.86   1459.86   1459.87   1461.28      1.42      7.76       .00   1458.00
    3227.0      208.8    3018.2        .0      63.0     306.2        .0     165.5      77.4 100000.00
       .48       3.31      9.86       .00      .070      .045      .000      .000   1454.50   9920.70
   .017272       450.      430.      350.        11         8         0       .00    138.25  10058.95


*SECNO 2.500
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9970.0   10095.0  TYPE=      1  TARGET=      125.000
     2.500       5.94   1471.94   1471.94   1471.59   1473.42      1.47      6.91       .02   1471.00
    3227.0         .0    2867.0     360.0        .0     280.6      83.8     168.7      78.5   1470.00
       .49        .00     10.22      4.30      .000      .045      .070      .000   1466.00   9970.00
   .018432       310.      390.      390.        20         8         0       .00    125.00  10095.00


*SECNO 2.560

3301 HV CHANGED MORE THAN HVINS

3693 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.3   10062.2  TYPE=      1  TARGET=       80.940
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


     2.560       6.11   1479.11   1479.11   1479.11   1481.10      1.99      5.88       .16 100000.00
    3227.0         .0    3215.0      12.0        .0     283.4       6.1     171.0      79.2   1478.00
       .50        .00     11.35      1.96      .000      .045      .070      .000   1473.00   9981.29
   .018759       350.      320.      250.         3         8         0       .00     79.80  10061.09


*SECNO 2.629

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9944.5   10090.5  TYPE=      1  TARGET=      146.000
     2.629       3.91   1491.41   1491.41   1491.40   1492.76      1.35      6.97       .06   1490.00
    3227.0       17.8    2672.4     536.8       7.5     267.7     104.1     173.8      80.1   1488.00
       .51       2.37      9.98      5.16      .070      .045      .070      .000   1487.50   9944.50
   .019812       290.      360.      380.        12        14         0       .00    146.00  10090.50
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*SECNO 2.727
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9930.6   10024.7  TYPE=      1  TARGET=       94.101
    2.727      6.35   1505.85   1505.85   1505.88   1507.65      1.80      9.57       .14   1502.00
   3227.0     763.7    2463.3        .0     132.5     207.0        .0     178.0      81.5 100000.00
      .52      5.76     11.90       .00      .070      .045      .000      .000   1499.50   9930.75
  .017440      510.      520.      480.        11        14         0       .00     93.87  10024.62


*SECNO 2.826

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9825.9   10021.3  TYPE=      1  TARGET=      195.360
    2.826      6.10   1524.10   1524.10   1524.10   1525.18      1.08     12.12       .07   1525.00
   3227.0    2463.4     763.6        .0     300.4      87.0        .1     182.5      83.2   1524.00
      .54      8.20      8.77       .04      .070      .045      .070      .000   1518.00   9825.92
  .030586      550.      520.      440.        17        10         0       .00    172.85  10021.28


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 2.920

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9853.7   10039.5  TYPE=      1  TARGET=      185.830
    2.920      5.81   1539.31   1539.31   1539.27   1540.74      1.43     11.44       .11   1540.00
   3227.0     955.6    2256.6       14.8     163.4     208.3       6.4     186.6      84.9   1538.00
      .56      5.85     10.83       2.30      .070      .045      .070      .000   1533.50   9853.67
  .019962      440.      500.      520.         4        11         0       .00    141.50  10039.50


*SECNO 3.019
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9935.4   10076.4  TYPE=      1  TARGET=      140.970
    3.019      5.92   1558.92   1558.92   1558.91   1560.37      1.45     10.40       .01   1555.00
   3227.0    1058.6    2009.1      159.4     146.2     182.0      47.3     191.1      86.5   1558.50
      .57      7.24     11.04       3.37      .070      .045      .070      .000   1553.00   9935.44
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   .020293      510.      520.      510.        18         5         0       .00    140.97  10076.41


*SECNO 3.116
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.3   10069.6  TYPE=      1  TARGET=      149.300
     3.116       4.96   1579.96   1579.96   1579.96   1581.32      1.36     10.13       .01   1577.00
    3227.0      766.3    2293.5     167.2     125.4     218.5      44.8     195.4      88.2   1578.50
       .59       6.11     10.50      3.73      .070      .045      .070      .000   1575.00   9920.32
   .020192       470.      510.      540.        17        15         0       .00    149.26  10069.58


*SECNO 3.214
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9965.0   10063.7  TYPE=      1  TARGET=       98.710
     3.214       6.00   1597.00   1597.00   1596.99   1598.82      1.82      9.00       .14   1594.00
    3227.0       23.1    2911.6     292.3       7.5     257.4      71.8     199.7      89.7   1594.00
       .60       3.09     11.31      4.07      .070      .045      .070      .000   1591.00   9965.01
   .015110       520.      520.      490.        15        11         0       .00     98.71  10063.72


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   01JUN92      09:01:43                                                                          PAGE    33


    SECNO      DEPTH      CWSEL      CRIWS      WSELK         EG         HV         HL      OLOSS   L-BANK ELEV
        Q       QLOB        QCH       QROB       ALOB        ACH       AROB        VOL        TWA   R-BANK ELEV
     TIME       VLOB        VCH       VROB        XNL       XNCH        XNR        WTN      ELMIN       SSTA
    SLOPE      XLOBL       XLCH      XLOBR     ITRIAL        IDC      ICONT      CORAR     TOPWID      ENDST


CCHV=      .100 CEHV=      .300
*SECNO 3.312
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9928.4   10040.5  TYPE=      1  TARGET=      112.030
     3.312       6.87   1622.87   1622.87   1622.87   1624.42      1.54     10.60       .03   1620.00
    3227.0      415.2    2699.4     112.4      75.6     253.7      23.5     203.8      90.9   1620.00
       .62       5.49     10.64      4.78      .070      .070      .070      .000   1616.00   9928.43
   .029360       520.      520.      480.        20         8         0       .00    112.03  10040.46


*SECNO 3.407
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9978.3   10061.4  TYPE=      1  TARGET=       83.110
     3.407       7.16   1641.16   1641.16   1641.14   1643.08      1.92     16.89       .11   1640.00
    3227.0        2.6    3054.6     169.8       1.0     269.5      28.3     207.5      92.0   1638.00
       .63       2.60     11.33      6.00      .070      .070      .070      .000   1634.00   9978.29
   .039433       480.      500.      510.        10         8         0       .00     83.11  10061.40


*SECNO 3.508

3470 ENCROACHMENT STATIONS=     9954.0   10038.8  TYPE=      1  TARGET=       84.800
```

3.508	7.49	1660.49	.00	1660.51	1661.96	1.47	18.84	.04	1660.00
3227.0	.3	3225.3	1.3	.2	331.6	.9	211.4	93.0	1660.00
.64	1.38	9.73	1.48	.070	.070	.070	.000	1653.00	9954.02
.032199	520.	530.	530.	5	0	0	.00	84.64	10038.66

*SECNO 3.587

3470 ENCROACHMENT STATIONS= 9949.3 10029.4 TYPE= 1 TARGET= 80.021

3.587	6.33	1675.83	1675.75	1675.80	1677.68	1.86	15.61	.12	1675.00
3227.0	5.8	3221.2	.0	2.4	294.4	.0	214.4	93.8	100000.00
.65	2.46	10.94	.00	.070	.070	.000	.000	1669.50	9949.34
.043379	400.	420.	400.	6	15	0	.00	80.02	10029.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.678
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9970.5 10081.2 TYPE= 1 TARGET= 110.640
Q @ X1 = 3.587 TO X1 = 4.242 EQUALS Q AT I1-CP9
Q = 2527 CFS

3.678	6.12	1701.12	1701.12	1701.12	1702.48	1.36	18.25	.05	1700.00
2527.0	6.5	2340.3	180.2	2.5	242.5	45.7	217.6	94.8	1700.00
.67	2.57	9.65	3.94	.070	.070	.070	.000	1695.00	9970.53
.032795	550.	480.	420.	14	8	0	.00	110.64	10081.17

*SECNO 3.773

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9965.3 10024.6 TYPE= 1 TARGET= 59.230

3.773	7.85	1719.85	1719.73	1719.86	1721.71	1.86	19.08	.15	100000.00
2527.0	.0	2527.0	.0	.0	231.0	.0	220.6	95.8	100000.00
.68	.00	10.94	.00	.000	.070	.000	.000	1712.00	9965.66
.044949	500.	500.	500.	6	11	0	.00	58.87	10024.53

*SECNO 3.864
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9971.0 10024.3 TYPE= 1 TARGET= 53.311

3.864	6.68	1747.68	1747.68	1747.71	1749.77	2.10	22.30	.07	100000.00
2527.0	.0	2527.0	.0	.0	217.5	.0	223.1	96.4	100000.00
.69	.00	11.62	.00	.000	.070	.000	.000	1741.00	9971.08
.048046	480.	480.	480.	13	15	0	.00	53.11	10024.19

*SECNO 3.956

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9968.5 10056.0 TYPE= 1 TARGET= 87.480

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.956	5.61	1770.61	1770.49	1770.60	1772.05	1.44	22.21	.07	1770.00
2527.0	.9	2522.2	3.9	.5	262.1	1.9	225.8	97.2	1770.00
.71	1.94	9.62	2.05	.070	.070	.070	.000	1765.00	9968.50
.042829	480.	490.	500.	8	15	0	.00	87.48	10055.98

*SECNO 4.049

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9902.7 10023.5 TYPE= 1 TARGET= 120.780

4.049	5.79	1795.29	1795.29	1795.28	1796.58	1.29	20.59	.01	1796.00
2527.0	732.0	1392.4	402.6	96.0	138.8	49.0	228.8	98.3	1790.00
.72	7.62	10.03	8.21	.070	.070	.070	.000	1789.50	9902.70
.042990	420.	490.	490.	9	8	0	.00	108.40	10023.48

*SECNO 4.100
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9906.0 10014.7 TYPE= 1 TARGET= 108.690

4.100	5.89	1809.89	1809.89	1809.90	1811.18	1.28	10.71	.00	1808.00
2527.0	702.4	1824.6	.0	106.1	184.6	.0	230.5	98.9	100000.00
.73	6.62	9.88	.00	.070	.070	.000	.000	1804.00	9906.08
.039092	240.	270.	270.	10	5	0	.00	108.65	10014.73

*SECNO 4.150
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9909.5 10015.7 TYPE= 1 TARGET= 106.210

4.150	5.14	1825.14	1825.14	1825.13	1826.49	1.35	11.89	.02	1825.00
2527.0	.0	2516.2	10.8	.0	269.1	3.3	232.2	99.6	1824.00
.74	.05	9.35	3.31	.070	.070	.070	.000	1820.00	9909.46
.052432	290.	260.	150.	15	15	0	.00	106.21	10015.67

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.242

3470 ENCROACHMENT STATIONS= 9970.7 10053.9 TYPE= 1 TARGET= 83.250

4.242	5.61	1843.11	.00	1843.11	1844.51	1.41	18.00	.02	1840.00
2527.0	65.6	2323.8	137.6	14.5	236.5	28.7	235.3	100.6	1840.00
.75	4.53	9.82	4.79	.070	.070	.070	.000	1837.50	9970.68
.027214	430.	490.	500.	6	0	0	.00	83.14	10053.82

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THIS RUN EXECUTED 01JUN92 09:02:53

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WASH "1A" - CHOLLA WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	3816.00	1249.07	9964.30	9955.00	10045.00	10102.80	.00	138.50	8.07	1241.00	46.93	8.60
	.000	3816.00	1248.91	9965.90	9955.00	10045.00	10096.40	.00	130.50	7.91	1241.00	51.56	8.94
*	.095	3816.00	1251.45	9563.73	9960.00	10070.00	10084.51	2.38	520.77	3.95	1247.50	17.99	3.78
*	.095	3816.00	1251.64	9800.00	9960.00	10070.00	10084.51	2.73	284.51	4.14	1247.50	25.82	4.71
*	.188	3816.00	1254.88	9846.79	9970.00	10040.00	10222.71	3.43	375.92	3.38	1251.50	119.49	8.88
*	.188	3816.00	1254.97	9846.79	9970.00	10040.00	10100.00	3.32	253.21	3.47	1251.50	133.43	9.58
	.278	3816.00	1259.29	9725.38	9970.00	10025.00	10053.86	4.41	328.48	3.79	1255.50	65.80	6.72
*	.278	3816.00	1259.42	9725.38	9970.00	10025.00	10053.86	4.46	328.48	3.92	1255.50	54.42	6.31
*	.373	3816.00	1265.08	9790.43	9970.00	10045.00	10055.83	5.80	265.40	5.28	1259.80	91.95	9.83
*	.373	3816.00	1265.08	9790.43	9970.00	10045.00	10055.83	5.66	265.40	5.28	1259.80	91.86	9.82
*	.466	3816.00	1270.44	9905.59	9960.00	10040.00	10044.41	5.36	138.82	4.44	1266.00	145.77	11.09
	.466	3816.00	1270.44	9905.59	9960.00	10040.00	10044.41	5.36	138.82	4.44	1266.00	145.26	11.08
*	.560	3816.00	1275.86	9820.70	9940.00	10045.00	10031.62	5.42	210.92	4.56	1271.30	61.91	7.21
*	.560	3816.00	1275.86	9820.71	9940.00	10045.00	10031.61	5.41	210.89	4.56	1271.30	62.03	7.21
*	.680	3816.00	1282.15	9884.83	9945.00	10060.00	10341.48	6.29	280.45	3.15	1279.00	151.96	9.40

*	.680	3816.00	1282.73	9884.83	9945.00	10060.00	10055.23	6.87	170.40	3.73	1279.00	130.28	9.93
*	.765	3816.00	1288.63	9820.25	9975.00	10030.00	10184.75	6.49	364.51	4.93	1283.70	80.32	9.80
*	.765	3816.00	1288.72	9900.00	9975.00	10030.00	10130.00	5.99	230.00	5.02	1283.70	89.72	10.49
*	.848	3816.00	1295.35	9959.90	9970.00	10040.00	10260.19	6.71	300.29	4.35	1291.00	101.27	9.87
*	.848	3816.00	1295.88	9959.90	9970.00	10040.00	10160.00	7.17	200.10	4.88	1291.00	90.74	10.27
*	.951	3816.00	1303.01	9879.09	9980.00	10010.00	10192.76	7.67	313.66	6.01	1297.00	88.67	11.63
*	.951	3816.00	1303.05	9879.09	9980.00	10010.00	10192.76	7.16	313.67	6.05	1297.00	85.28	11.46

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	1.044	3816.00	1308.41	9781.77	9990.00	10025.00	10172.34	5.40	379.93	4.91	1303.50	101.07	10.95
*	1.044	3816.00	1308.35	9868.88	9990.00	10025.00	10170.56	5.31	301.68	4.85	1303.50	110.30	11.33
*	1.138	3816.00	1314.00	9650.08	9985.00	10010.00	10019.99	5.59	369.91	5.00	1309.00	97.32	11.39
*	1.138	3816.00	1313.96	9705.00	9985.00	10010.00	10019.90	5.61	314.90	4.96	1309.00	108.36	11.95
*	1.233	3816.00	1321.29	9723.58	9985.00	10030.00	10250.77	7.30	527.19	5.79	1315.50	69.93	9.68
*	1.233	3816.00	1321.74	9845.00	9985.00	10030.00	10110.00	7.78	265.00	6.24	1315.50	76.12	10.75
*	1.328	3522.00	1328.89	9921.54	9980.00	10025.00	10313.88	7.60	387.65	5.39	1323.50	72.10	9.69
*	1.328	3522.00	1329.26	9921.54	9980.00	10025.00	10200.00	7.52	278.46	5.76	1323.50	67.01	9.85
*	1.419	3522.00	1335.18	9619.44	9985.00	10025.00	10020.90	6.29	401.46	4.18	1331.00	221.96	8.27
	1.419	3522.00	1335.12	9675.00	9985.00	10025.00	10020.62	5.87	345.62	4.12	1331.00	256.81	8.71
	1.509	3522.00	1343.58	9604.20	9980.00	10020.00	10053.70	8.40	427.47	4.58	1339.00	116.70	7.88
*	1.509	3522.00	1343.65	9604.20	9980.00	10020.00	10053.70	8.53	431.35	4.65	1339.00	104.29	7.61
*	1.604	3522.00	1351.64	9501.66	9990.00	10030.00	10062.01	8.06	411.07	3.64	1348.00	267.11	9.87
*	1.604	3522.00	1352.49	9630.00	9990.00	10030.00	10030.00	8.83	398.98	4.49	1348.00	181.35	10.20
*	1.697	3522.00	1361.42	9703.00	9990.00	10040.00	10160.64	9.78	421.33	4.42	1357.00	129.13	10.06
*	1.697	3522.00	1361.77	9929.08	9990.00	10040.00	10160.64	9.28	231.56	4.77	1357.00	131.02	10.89
*	1.790	3522.00	1370.70	9751.78	9970.00	10025.00	10303.32	9.28	520.01	5.70	1365.00	77.75	9.17
*	1.790	3522.00	1370.71	9800.00	9970.00	10025.00	10158.37	8.94	348.19	5.71	1365.00	89.61	9.86
*	1.886	3522.00	1382.44	9803.67	9970.00	10015.00	10258.70	11.74	382.01	4.44	1378.00	113.11	10.25
*	1.886	3522.00	1382.71	9850.00	9970.00	10015.00	10185.00	12.01	285.72	4.71	1378.00	109.23	10.61
*	1.977	3522.00	1394.71	9770.20	9975.00	10045.00	10327.71	12.27	494.84	2.91	1391.80	331.05	6.37
*	1.977	3522.00	1395.07	9880.00	9975.00	10045.00	10327.71	12.35	447.71	3.27	1391.80	299.26	7.32
*	2.078	3522.00	1411.08	9806.94	9990.00	10040.00	10253.83	16.37	342.19	5.08	1406.00	81.86	10.00
*	2.078	3522.00	1411.59	9806.94	9990.00	10040.00	10170.00	16.53	294.53	5.59	1406.00	73.95	10.26
*	2.155	3227.00	1422.34	9819.51	9955.00	10075.00	10122.05	11.27	276.01	2.84	1419.50	294.29	8.68
*	2.155	3227.00	1422.35	9819.51	9955.00	10075.00	10122.05	10.75	276.21	2.85	1419.50	291.87	8.66
	2.250	3227.00	1433.47	9958.43	9970.00	10015.00	10071.48	11.13	113.05	7.47	1426.00	128.94	11.51
*	2.250	3227.00	1433.50	9958.43	9970.00	10015.00	10071.48	11.16	113.05	7.50	1426.00	126.03	11.42
*	2.345	3227.00	1448.47	9927.88	9960.00	10060.00	10064.75	15.00	136.88	4.97	1443.50	192.45	9.80
*	2.345	3227.00	1448.50	9927.88	9960.00	10060.00	10064.75	14.99	136.87	5.00	1443.50	187.76	9.72

*	2.426	3227.00	1459.87	9920.65	9970.00	10060.00	10059.02	11.39	138.36	5.37	1454.50	171.19	9.83
*	2.426	3227.00	1459.86	9920.70	9970.00	10060.00	10058.95	11.36	138.25	5.36	1454.50	172.72	9.86
*	2.500	3227.00	1471.59	9927.06	9970.00	10050.00	10154.26	11.72	227.20	5.59	1466.00	179.89	9.47
	2.500	3227.00	1471.94	9970.00	9970.00	10050.00	10095.00	12.09	125.00	5.94	1466.00	184.32	10.22

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.560	3227.00	1479.11	9977.23	9980.00	10050.00	10061.09	7.52	83.86	6.11	1473.00	182.60	11.27
*	2.560	3227.00	1479.11	9981.29	9980.00	10050.00	10061.09	7.16	79.80	6.11	1473.00	187.59	11.35
*	2.629	3227.00	1491.40	9944.50	9955.00	10040.00	10090.50	12.29	146.00	3.90	1487.50	201.43	10.03
*	2.629	3227.00	1491.41	9944.50	9955.00	10040.00	10090.50	12.31	146.00	3.91	1487.50	198.12	9.98
*	2.727	3227.00	1505.88	9930.60	9980.00	10035.00	10024.70	14.48	94.10	6.38	1499.50	170.44	11.80
*	2.727	3227.00	1505.85	9930.75	9980.00	10035.00	10024.62	14.43	93.87	6.35	1499.50	174.40	11.90
*	2.826	3227.00	1524.10	9825.90	9965.00	10020.00	10021.57	18.22	173.28	6.10	1518.00	304.15	8.76
*	2.826	3227.00	1524.10	9825.92	9965.00	10020.00	10021.28	18.25	172.85	6.10	1518.00	305.86	8.77
*	2.920	3227.00	1539.27	9853.66	9970.00	10030.00	10039.51	15.16	140.59	5.77	1533.50	208.46	11.00
*	2.920	3227.00	1539.31	9853.67	9970.00	10030.00	10039.50	15.21	141.50	5.81	1533.50	199.62	10.83
*	3.019	3227.00	1558.91	9935.44	9980.00	10030.00	10076.41	19.65	140.98	5.91	1553.00	203.46	11.05
*	3.019	3227.00	1558.92	9935.44	9980.00	10030.00	10076.41	19.60	140.97	5.92	1553.00	202.93	11.04
	3.116	3227.00	1579.96	9920.30	9970.00	10035.00	10069.60	21.05	149.31	4.96	1575.00	201.39	10.49
*	3.116	3227.00	1579.96	9920.32	9970.00	10035.00	10069.58	21.04	149.26	4.96	1575.00	201.92	10.50
*	3.214	3227.00	1596.99	9965.01	9970.00	10025.00	10063.72	17.03	98.71	5.99	1591.00	151.85	11.33
*	3.214	3227.00	1597.00	9965.01	9970.00	10025.00	10063.72	17.04	98.71	6.00	1591.00	151.10	11.31
*	3.312	3227.00	1622.87	9928.37	9970.00	10020.00	10040.86	25.88	112.49	6.87	1616.00	294.79	10.66
*	3.312	3227.00	1622.87	9928.43	9970.00	10020.00	10040.46	25.87	112.03	6.87	1616.00	293.60	10.64
*	3.407	3227.00	1641.14	9978.29	9980.00	10040.00	10061.40	18.27	83.12	7.14	1634.00	400.25	11.39
*	3.407	3227.00	1641.16	9978.29	9980.00	10040.00	10061.40	18.29	83.11	7.16	1634.00	394.33	11.33
	3.508	3227.00	1660.51	9953.99	9955.00	10035.00	10038.79	19.36	84.80	7.51	1653.00	317.73	9.69
	3.508	3227.00	1660.49	9954.02	9955.00	10035.00	10038.66	19.33	84.64	7.49	1653.00	321.99	9.73
	3.587	3227.00	1675.80	9949.34	9955.00	10030.00	10029.36	15.30	80.03	6.30	1669.50	439.30	10.99
	3.587	3227.00	1675.83	9949.34	9955.00	10030.00	10029.36	15.34	80.02	6.33	1669.50	433.79	10.94
*	3.678	2527.00	1701.12	9970.53	9975.00	10035.00	10081.17	25.31	110.64	6.12	1695.00	330.30	9.68
*	3.678	2527.00	1701.12	9970.53	9975.00	10035.00	10081.17	25.30	110.64	6.12	1695.00	327.95	9.65
	3.773	2527.00	1719.86	9965.61	9965.00	10025.00	10024.57	18.74	58.96	7.86	1712.00	445.68	10.90
	3.773	2527.00	1719.85	9965.66	9965.00	10025.00	10024.53	18.73	58.87	7.85	1712.00	449.49	10.94
*	3.864	2527.00	1747.71	9970.97	9970.00	10025.00	10024.28	27.85	53.31	6.71	1741.00	469.81	11.52
*	3.864	2527.00	1747.68	9971.08	9970.00	10025.00	10024.19	27.82	53.11	6.68	1741.00	480.46	11.62
	3.956	2527.00	1770.60	9968.50	9970.00	10050.00	10055.98	22.89	87.47	5.60	1765.00	437.95	9.69
	3.956	2527.00	1770.61	9968.50	9970.00	10050.00	10055.98	22.94	87.48	5.61	1765.00	428.29	9.62
*	4.049	2527.00	1795.28	9902.70	9960.00	10005.00	10023.48	24.68	108.17	5.78	1789.50	435.51	10.09
*	4.049	2527.00	1795.29	9902.70	9960.00	10005.00	10023.48	24.68	108.40	5.79	1789.50	429.90	10.03

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	4.100	2527.00	1809.90	9906.05	9965.00	10015.00	10014.74	14.62	108.69	5.90	1804.00	389.61	9.87
*	4.100	2527.00	1809.89	9906.08	9965.00	10015.00	10014.73	14.60	108.65	5.89	1804.00	390.92	9.88
*	4.150	2527.00	1825.13	9909.46	9910.00	10010.00	10015.67	15.24	106.21	5.13	1820.00	528.44	9.37
*	4.150	2527.00	1825.14	9909.46	9910.00	10010.00	10015.67	15.25	106.21	5.14	1820.00	524.32	9.35
	4.242	2527.00	1843.11	9970.66	9980.00	10030.00	10053.91	17.98	83.25	5.61	1837.50	270.71	9.81
	4.242	2527.00	1843.11	9970.68	9980.00	10030.00	10053.82	17.97	83.14	5.61	1837.50	272.14	9.82

WASH "1A" - CHOLLA WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1249.07	.00	1250.17	138.50	.00	3594.68	221.32	.00	.00	9955.00	10045.00	.00
	.000	1248.91	-.16	1250.10	130.50	.00	3625.19	190.81	138.48	9964.30	9955.00	10045.00	10102.78
	.095	1251.45	.00	1251.61	520.77	2541.99	1264.30	9.70	.00	.00	9960.00	10070.00	.00
*	.095	1251.64	.19	1251.94	284.51	2123.11	1675.90	16.99	284.51	9800.00	9960.00	10070.00	10084.51
*	.188	1254.88	.00	1255.67	375.92	1383.40	1646.17	786.43	.00	.00	9970.00	10040.00	.00
*	.188	1254.97	.08	1255.98	253.21	1572.01	1833.28	410.71	253.21	9846.79	9970.00	10040.00	10100.00
	.278	1259.29	.00	1259.79	328.48	2774.35	1011.50	30.15	.00	.00	9970.00	10025.00	.00
*	.278	1259.42	.14	1259.87	328.48	2780.40	997.86	37.74	328.48	9725.38	9970.00	10025.00	10053.86
*	.373	1265.08	.00	1266.23	265.40	1018.58	2788.19	9.22	.00	.00	9970.00	10045.00	.00
*	.373	1265.08	.00	1266.23	265.40	1018.88	2787.88	9.24	265.40	9790.43	9970.00	10045.00	10055.83
*	.466	1270.44	.00	1272.03	138.82	983.32	2831.62	1.06	.00	.00	9960.00	10040.00	.00
*	.466	1270.44	.00	1272.03	138.82	983.34	2831.58	1.08	138.82	9905.59	9960.00	10040.00	10044.41
*	.560	1275.86	.00	1276.44	210.92	1714.88	2101.12	.00	.00	.00	9940.00	10045.00	.00
*	.560	1275.86	.00	1276.44	210.89	1714.86	2101.14	.00	210.92	9820.70	9940.00	10045.00	10031.62
*	.680	1282.15	.00	1283.15	280.45	387.62	2452.87	975.51	.00	.00	9945.00	10060.00	.00
*	.680	1282.73	.58	1284.08	170.40	596.34	3219.66	.00	170.43	9884.83	9945.00	10060.00	10055.26
*	.765	1288.63	.00	1289.57	364.51	756.16	2240.65	819.20	.00	.00	9975.00	10030.00	.00
*	.765	1288.72	.08	1289.89	230.00	652.45	2446.01	717.54	230.00	9900.00	9975.00	10030.00	10130.00
*	.848	1295.35	.00	1296.39	300.29	12.93	2434.82	1368.25	.00	.00	9970.00	10040.00	.00
*	.848	1295.88	.54	1297.18	200.10	31.43	2918.74	865.83	200.10	9959.90	9970.00	10040.00	10160.00
*	.951	1303.01	.00	1304.13	313.66	209.55	1748.65	1857.80	.00	.00	9980.00	10010.00	.00
*	.951	1303.05	.04	1304.13	313.67	216.94	1735.30	1863.76	313.67	9879.09	9980.00	10010.00	10192.76
*	1.044	1308.41	.00	1309.34	379.93	929.92	1580.80	1305.27	.00	.00	9990.00	10025.00	.00
*	1.044	1308.35	-.06	1309.37	301.68	899.03	1612.03	1304.94	312.34	9860.00	9990.00	10025.00	10172.34

*	1.138	1314.00	.00	1314.83	369.91	2461.99	1280.31	73.69	.00	.00	9985.00	10010.00	.00
*	1.138	1313.96	-.04	1314.92	314.90	2406.70	1333.36	75.94	314.99	9705.00	9985.00	10010.00	10019.99
	1.233	1321.29	.00	1322.12	527.19	882.24	1978.48	955.28	.00	.00	9985.00	10030.00	.00
*	1.233	1321.74	.45	1322.96	265.00	1155.80	2414.28	245.92	265.00	9845.00	9985.00	10030.00	10110.00
*	1.328	1328.89	.00	1329.76	387.65	141.73	1937.95	1442.31	.00	.00	9980.00	10025.00	.00
*	1.328	1329.26	.37	1330.23	278.46	211.46	2133.12	1177.42	278.46	9921.54	9980.00	10025.00	10200.00
*	1.419	1335.18	.00	1335.85	401.46	3076.50	445.50	.00	.00	.00	9985.00	10025.00	.00
*	1.419	1335.12	-.06	1335.93	345.62	3070.07	451.93	.00	345.90	9675.00	9985.00	10025.00	10020.90

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	1.509	1343.58	.00	1344.04	427.47	2721.80	714.43	85.77	.00	.00	9980.00	10020.00	.00
*	1.509	1343.65	.07	1344.08	431.35	2718.10	712.55	91.34	449.50	9604.20	9980.00	10020.00	10053.70
*	1.604	1351.64	.00	1352.37	411.07	2893.75	627.57	.68	.00	.00	9990.00	10030.00	.00
*	1.604	1352.49	.85	1353.22	398.98	2532.63	989.37	.00	400.00	9630.00	9990.00	10030.00	10030.00
*	1.697	1361.42	.00	1362.23	421.33	1156.64	1517.94	847.42	.00	.00	9990.00	10040.00	.00
*	1.697	1361.77	.35	1362.89	231.56	534.36	1833.89	1153.75	235.64	9925.00	9990.00	10040.00	10160.64
*	1.790	1370.70	.00	1371.50	520.01	1206.09	1958.32	357.59	.00	.00	9970.00	10025.00	.00
*	1.790	1370.71	.01	1371.70	348.19	1296.31	2110.99	114.70	370.00	9800.00	9970.00	10025.00	10170.00
*	1.886	1382.44	.00	1383.31	382.01	544.94	1584.42	1392.64	.00	.00	9970.00	10015.00	.00
*	1.886	1382.71	.28	1383.74	285.72	648.65	1773.74	1099.61	335.00	9850.00	9970.00	10015.00	10185.00
*	1.977	1394.71	.00	1395.31	494.84	1877.39	292.11	1352.49	.00	.00	9975.00	10045.00	.00
*	1.977	1395.07	.36	1395.69	447.71	1143.69	509.48	1868.83	447.71	9880.00	9975.00	10045.00	10327.71
*	2.078	1411.08	.00	1412.09	342.19	357.49	2138.80	1025.71	.00	.00	9990.00	10040.00	.00
*	2.078	1411.59	.52	1412.77	294.53	607.09	2458.51	456.40	363.06	9806.94	9990.00	10040.00	10170.00
*	2.155	1422.34	.00	1423.21	276.01	843.90	1816.66	566.44	.00	.00	9955.00	10075.00	.00
*	2.155	1422.35	.01	1423.21	276.21	844.36	1816.31	566.33	302.54	9819.51	9955.00	10075.00	10122.05
*	2.250	1433.47	.00	1435.30	113.05	67.97	2834.18	324.85	.00	.00	9970.00	10015.00	.00
*	2.250	1433.50	.03	1435.30	113.05	69.06	2828.00	329.94	113.05	9958.43	9970.00	10015.00	10071.48
*	2.345	1448.47	.00	1449.90	136.88	152.46	3073.27	1.27	.00	.00	9960.00	10060.00	.00
*	2.345	1448.50	.02	1449.90	136.87	154.42	3071.13	1.45	136.87	9927.88	9960.00	10060.00	10064.75
*	2.426	1459.87	.00	1461.28	138.36	210.28	3016.72	.00	.00	.00	9970.00	10060.00	.00
*	2.426	1459.86	-.01	1461.28	138.25	208.80	3018.20	.00	138.37	9920.65	9970.00	10060.00	10059.02
*	2.500	1471.59	.00	1472.68	227.20	225.27	2386.21	615.52	.00	.00	9970.00	10050.00	.00
*	2.500	1471.94	.36	1473.42	125.00	.00	2867.04	359.96	125.00	9970.00	9970.00	10050.00	10095.00
*	2.560	1479.11	.00	1481.07	83.86	2.83	3212.29	11.87	.00	.00	9980.00	10050.00	.00
	2.560	1479.11	.00	1481.10	79.80	.00	3214.98	12.02	80.94	9981.29	9980.00	10050.00	10062.23
*	2.629	1491.40	.00	1492.77	146.00	17.36	2674.16	535.48	.00	.00	9955.00	10040.00	.00
*	2.629	1491.41	.01	1492.76	146.00	17.80	2672.42	536.78	146.00	9944.50	9955.00	10040.00	10090.50
*	2.727	1505.88	.00	1507.65	94.10	767.98	2459.02	.00	.00	.00	9980.00	10035.00	.00

*	2.727	1505.85	-.03	1507.65	93.87	763.73	2463.27	.00	94.10	9930.60	9980.00	10035.00	10024.70
*	2.826	1524.10	.00	1525.18	173.28	2462.79	764.20	.00	.00	.00	9965.00	10020.00	.00
*	2.826	1524.10	.00	1525.18	172.85	2463.40	763.60	.00	195.36	9825.92	9965.00	10020.00	10021.28
*	2.920	1539.27	.00	1540.75	140.59	950.64	2262.81	13.55	.00	.00	9970.00	10030.00	.00
*	2.920	1539.31	.04	1540.74	141.50	955.57	2256.62	14.81	185.83	9853.67	9970.00	10030.00	10039.50

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	3.019	1558.91	.00	1560.37	140.98	1058.72	2009.31	158.97	.00	.00	9980.00	10030.00	.00
*	3.019	1558.92	.00	1560.37	140.97	1058.59	2009.05	159.35	140.97	9935.44	9980.00	10030.00	10076.41
*	3.116	1579.96	.00	1581.32	149.31	766.33	2293.24	167.42	.00	.00	9970.00	10035.00	.00
*	3.116	1579.96	.00	1581.32	149.26	766.29	2293.52	167.19	149.30	9920.30	9970.00	10035.00	10069.60
*	3.214	1596.99	.00	1598.82	98.71	23.05	2912.45	291.50	.00	.00	9970.00	10025.00	.00
*	3.214	1597.00	.01	1598.82	98.71	23.13	2911.56	292.31	98.71	9965.01	9970.00	10025.00	10063.72
*	3.312	1622.87	.00	1624.42	112.49	414.34	2700.83	111.83	.00	.00	9970.00	10020.00	.00
*	3.312	1622.87	.00	1624.42	112.03	415.20	2699.41	112.38	112.03	9928.43	9970.00	10020.00	10040.46
*	3.407	1641.14	.00	1643.08	83.12	2.52	3056.53	167.94	.00	.00	9980.00	10040.00	.00
*	3.407	1641.16	.02	1643.08	83.11	2.62	3054.57	169.81	83.11	9978.29	9980.00	10040.00	10061.40
	3.508	1660.51	.00	1661.96	84.80	.36	3225.21	1.44	.00	.00	9955.00	10035.00	.00
	3.508	1660.49	-.02	1661.96	84.64	.33	3225.35	1.32	84.80	9953.99	9955.00	10035.00	10038.79
	3.587	1675.80	.00	1677.67	80.03	5.54	3221.46	.00	.00	.00	9955.00	10030.00	.00
	3.587	1675.83	.02	1677.68	80.02	5.84	3221.16	.00	80.02	9949.34	9955.00	10030.00	10029.36
*	3.678	1701.12	.00	1702.48	110.64	6.41	2341.82	178.77	.00	.00	9975.00	10035.00	.00
*	3.678	1701.12	.01	1702.48	110.64	6.51	2340.30	180.19	110.64	9970.53	9975.00	10035.00	10081.17
	3.773	1719.86	.00	1721.70	58.96	.00	2527.00	.00	.00	.00	9965.00	10025.00	.00
	3.773	1719.85	.00	1721.71	58.87	.00	2527.00	.00	59.23	9965.34	9965.00	10025.00	10024.57
*	3.864	1747.71	.00	1749.77	53.31	.00	2527.00	.00	.00	.00	9970.00	10025.00	.00
*	3.864	1747.68	-.03	1749.77	53.11	.00	2527.00	.00	53.31	9970.97	9970.00	10025.00	10024.28
	3.956	1770.60	.00	1772.05	87.47	.84	2522.61	3.54	.00	.00	9970.00	10050.00	.00
	3.956	1770.61	.02	1772.05	87.48	.93	2522.15	3.92	87.48	9968.50	9970.00	10050.00	10055.98
*	4.049	1795.28	.00	1796.58	108.17	729.88	1394.99	402.13	.00	.00	9960.00	10005.00	.00
*	4.049	1795.29	.01	1796.58	108.40	732.02	1392.36	402.61	120.78	9902.70	9960.00	10005.00	10023.48
*	4.100	1809.90	.00	1811.18	108.69	703.02	1823.98	.00	.00	.00	9965.00	10015.00	.00
*	4.100	1809.89	.00	1811.18	108.65	702.37	1824.62	.00	108.69	9906.05	9965.00	10015.00	10014.74
*	4.150	1825.13	.00	1826.49	106.21	.00	2516.37	10.62	.00	.00	9910.00	10010.00	.00
*	4.150	1825.14	.01	1826.49	106.21	.00	2516.23	10.77	106.21	9909.46	9910.00	10010.00	10015.67
	4.242	1843.11	.00	1844.51	83.25	65.81	2323.04	138.15	.00	.00	9980.00	10030.00	.00
	4.242	1843.11	-.01	1844.51	83.14	65.62	2323.78	137.60	83.25	9970.66	9980.00	10030.00	10053.91

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .095  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .095  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .188  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .188  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .188  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .188  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .188  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .188  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .278  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .373  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .373  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .373  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .373  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .373  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .373  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .466  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .466  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .466  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .466  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .560  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .560  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .680  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .680  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, WASH "1A" - CHOLLA WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	131.	451.	8.5	1248.9	1249.1	-.2
.095	285.	877.	4.3	1251.7	1251.5	.2
.188	253.	519.	7.4	1255.0	1254.9	.1
.278	328.	740.	5.2	1259.4	1259.3	.1
.373	265.	572.	6.7	1265.1	1265.1	.0
.466	139.	409.	9.3	1270.4	1270.4	.0
.560	211.	678.	5.6	1275.9	1275.9	.0
.680	170.	449.	8.5	1282.7	1282.1	.6
.765	230.	596.	6.4	1288.7	1288.6	.1
.848	200.	528.	7.2	1295.8	1295.3	.5
.951	314.	656.	5.8	1303.0	1303.0	.0
1.044	302.	641.	6.0	1308.3	1308.4	-.1
1.138	315.	701.	5.4	1314.0	1314.0	.0
1.233	265.	610.	6.3	1321.7	1321.3	.4
1.328	278.	643.	5.5	1329.3	1328.9	.4
1.419	346.	493.	7.1	1335.1	1335.2	-.1
1.509	449.	737.	4.8	1343.7	1343.6	.1
1.604	400.	607.	5.8	1352.4	1351.6	.8
1.697	232.	527.	6.7	1361.7	1361.4	.3
1.790	358.	616.	5.7	1370.7	1370.7	.0
1.886	335.	576.	6.1	1382.7	1382.4	.3
1.977	448.	557.	6.3	1395.1	1394.7	.4
2.078	363.	597.	5.9	1411.6	1411.1	.5
2.155	303.	465.	6.9	1422.3	1422.3	.0
2.250	113.	357.	9.1	1433.5	1433.5	.0
2.345	137.	358.	9.0	1448.5	1448.5	.0
2.426	138.	369.	8.7	1459.9	1459.9	.0
2.500	125.	364.	8.9	1472.0	1471.6	.4
2.560	80.	290.	11.1	1479.1	1479.1	.0
2.629	146.	379.	8.5	1491.4	1491.4	.0
2.727	94.	339.	9.5	1505.9	1505.9	.0
2.826	195.	388.	8.3	1524.1	1524.1	.0
2.920	186.	378.	8.5	1539.3	1539.3	.0
3.019	141.	376.	8.6	1558.9	1558.9	.0
3.116	149.	389.	8.3	1580.0	1580.0	.0
3.214	99.	337.	9.6	1597.0	1597.0	.0
3.312	112.	353.	9.1	1622.9	1622.9	.0
3.407	83.	299.	10.8	1641.1	1641.1	.0
3.508	85.	333.	9.7	1660.5	1660.5	.0
3.587	80.	297.	10.9	1675.8	1675.8	.0
3.678	111.	291.	8.7	1701.1	1701.1	.0
3.773	59.	231.	10.9	1719.9	1719.9	.0

1

FLOODWAY DATA, WASH "1A" - CHOLLA WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE

3.864	53.	218.	11.6	1747.7	1747.7	.0
3.956	87.	264.	9.6	1770.6	1770.6	.0
4.049	121.	284.	8.9	1795.3	1795.3	.0
4.100	109.	291.	8.7	1809.9	1809.9	.0
4.150	106.	272.	9.3	1825.1	1825.1	.0
4.242	83.	280.	9.0	1843.1	1843.1	.0

```
1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    01JUN92    TIME   08:54:01 *
*****************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
```

1A1.H2O - NORTH FORK CHOLLA WASH
Latest Version
w/ Floodway

```
X     X  XXXXXXX   XXXXX            XXXXX
X     X  X       X     X          X     X
X     X  X       X                      X
XXXXXXX  XXXX    X         XXXXX   XXXXX
X     X  X       X                X
X     X  X       X     X          X
X     X  XXXXXXX   XXXXX           XXXXXXX
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1

01JUN92 08:54:01 PAGE 1

THIS RUN EXECUTED 01JUN92 08:54:01

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
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```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN       FILE:  1A1.H2I
T3      WASH "1A1" - NORTH FORK CHOLLA WASH - TRIBUTARY TO WASH "1A"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0        0        0        0        0    1675.80     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43        1       53       21       22       54       51        4        8
     42        5       26        0      110        0      200

NC     .07      .07      .07       .3       .5
QT       2     3227     3227
F                        9.1                                                   9949.4   10029.33

          BEGIN WSEL = 1675.80 FROM X1=3.587 OF WASH "1A" - CHOLLA WASH
          CONFLUENCE WITH CHOLLA WASH

          Q @ X1 = 0.000 TO X1 = 0.100 EQUALS Q AT CROSS SECTION 3.587
          ON WASH "1A"          Q = 3227 CFS
```

```
X1    0.000      18    9920   10050       0       0       0
GR     1695    9800    1694    9825    1690    9850  1681.5    9875  1682.5    9900
GR     1682    9910    1680    9920    1670    9990  1669.5   10000    1670   10010
GR     1676   10030    1678   10050    1680   10090    1682   10120    1683   10145
GR     1682   10170    1684   10185    1685   10205

NC      .10     .10     .07      .1      .3
QT        2     704     704
ET                     9.1                                            9975.42  10022.42

          Q @ X1 = 0.100 TO X1 = 0.525 EQUALS Q AT SUB-8
          Q = 704 CFS
1
   01JUN92      08:54:01                                                                    PAGE    2


X1    0.100       8    9940   10045     430     600     530
GR     1723    9910    1720    9940    1710    9985    1709   10000    1710   10010
GR     1716   10045    1718   10065    1724   10100

ET                     9.1                                            9985.92  10017.60
X1    0.195       5    9980   10025     500     470     500
GR     1760    9890    1750    9980    1743   10000    1750   10025    1760   10070

ET                     9.1                                            9980.87  10014.35
X1    0.286       7    9980   10015     460     480     480
GR     1812    9920    1810    9945    1800    9980    1795   10000    1800   10015
GR     1810   10030    1820   10045

ET                     9.1                                            9979.37  10020.63
X1    0.381       5    9950   10050     510     450     500
GR     1870    9905    1860    9950    1850   10000    1860   10050    1870   10070

ET                     9.1                                            9975.45  10028.06
X1    0.447       5    9965   10040     360     320     350
GR     1980    9935    1900    9965    1895   10000    1900   10040    1910   10060

ET                     9.1                                            9979.22  10030.94
X1    0.525       5    9980   10030     370     420     410
GR     1960    9955    1950    9980    1947   10000    1950   10030    1960   10060
1
   01JUN92      08:54:01                                                                    PAGE    3


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 *PROF 1
0

CONV=     .300 CEHV=     .500
 SECNO  .000

          BEGIN WSEL = 1675.80 FROM X1=3.587 OF WASH "1A" - CHOLLA WASH
          CONFLUENCE WITH CHOLLA WASH

          Q @ X1 = 0.000 TO X1 = 0.100 EQUALS Q AT CROSS SECTION 3.587
```

ON WASH "1A" Q = 3227 CFS

.000	6.30	1675.80	1675.78	1675.80	1677.66	1.86	.00	.00	1680.00
3227.0	.0	3227.0	.0	.0	294.8	.0	.0	.0	1678.00
.00	.00	10.95	.00	.000	.070	.000	.000	1669.50	9949.40
.047658	0.	0.	0.	0	4	0	.00	79.93	10029.33

CCHV= .100 CEHV= .300
*SECNO .100

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 0.100 TO X1 = 0.525 EQUALS Q AT SUB-8
Q = 704 CFS

.100	3.13	1712.13	1712.13	.00	1713.10	.97	26.26	.09	1720.00
704.0	.0	704.0	.0	.0	89.1	.0	2.3	.8	1716.00
.02	.00	7.90	.00	.000	.070	.000	.000	1709.00	9975.42
.059819	430.	530.	600.	20	8	0	.00	46.99	10022.42

*SECNO .195
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.195	4.93	1747.93	1747.93	.00	1749.19	1.26	29.38	.09	1750.00
704.0	.0	704.0	.0	.0	78.0	.0	3.3	1.2	1750.00
.03	.00	9.02	.00	.000	.070	.000	.000	1743.00	9985.92
.057732	500.	500.	470.	12	14	0	.00	31.68	10017.60

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .286
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.286	4.78	1799.78	1799.78	.00	1800.98	1.20	27.43	.01	1800.00
704.0	.0	704.0	.0	.0	80.1	.0	4.2	1.6	1800.00
.05	.00	8.79	.00	.000	.070	.000	.000	1795.00	9980.87
.056552	460.	480.	480.	12	8	0	.00	33.48	10014.35

*SECNO .381
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.381	4.13	1854.13	1854.13	.00	1855.19	1.06	28.96	.01	1860.00
704.0	.0	704.0	.0	.0	85.1	.0	5.1	2.0	1860.00
.07	.00	8.27	.00	.000	.070	.000	.000	1850.00	9979.37
.059340	510.	500.	450.	11	15	0	.00	41.26	10020.63

```
*SECNO  .447
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   .447      3.51   1898.51   1898.51       .00   1899.41       .90     21.20       .02   1900.00
  704.0        .0     704.0        .0        .0      92.2        .0       5.8       2.4   1900.00
    .08       .00      7.63       .00      .000      .070      .000      .000   1895.00   9975.45
 .061841      360.      350.      320.        11        15         0       .00     52.61  10028.06


*SECNO  .525
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   .525      3.31   1950.31   1950.31       .00   1951.25       .94     25.20       .01   1950.00
  704.0        .1     703.7        .2        .1      90.7        .1       6.7       2.9   1950.00
    .09      1.02      7.76      1.03      .100      .070      .100      .000   1947.00   9979.22
 .061080      370.      410.      420.        10        11         0       .00     51.72  10030.94


1
PROFILE FOR STREAM  WASH "1A1" - NORTH FORK


PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1670.     1720.     1770.     1820.     1870.     1920.     1970.     2020.     2070.     2120.
   SECNO   CUMDIS

   .00      0.  IWEM      .         .         .         .         .         .         .         .         .
            50. .IELM     .         .         .         .         .         .         .         .         .
           100. .I ELM    .         .         .         .         .         .         .         .         .
           150. . IWEM    .         .         .         .         .         .         .         .         .
           200. .  IELM   .         .         .         .         .         .         .         .         .
           250. .   IELM  .         .         .         .         .         .         .         .         .
           300. .   IWEL  .         .         .         .         .         .         .         .         .
           350. .    IELM .         .         .         .         .         .         .         .         .
           400. .     IELM.         .         .         .         .         .         .         .         .
           450. .      WELM         .         .         .         .         .         .         .         .
           500. .      IERL         .         .         .         .         .         .         .         .
   .10     550. .       IELM        .         .         .         .         .         .         .         .
           600. .        ERL        .         .         .         .         .         .         .         .
           650. .        IELM       .         .         .         .         .         .         .         .
           700. .         IELM      .         .         .         .         .         .         .         .
           750. .         .WELM     .         .         .         .         .         .         .         .
           800. .         .IELM     .         .         .         .         .         .         .         .
           850. .         . IELM    .         .         .         .         .         .         .         .
           900. .         .  IE M   .         .         .         .         .         .         .         .
           950. .         .  IEL M  .         .         .         .         .         .         .         .
          1000. .         .   IELM  .         .         .         .         .         .         .         .
   .19    1050. .         .    IE M .         .         .         .         .         .         .         .
          1100. .         .     IE M.         .         .         .         .         .         .         .
          1150. .         .      IE M         .         .         .         .         .         .         .
          1200. .         .       IE.M        .         .         .         .         .         .         .
          1250. .         .        IE M       .         .         .         .         .         .         .
          1300. .         .         IE  M     .         .         .         .         .         .         .
          1350. .         .         .IE  M    .         .         .         .         .         .         .
          1400. .         .         . IE  M   .         .         .         .         .         .         .
          1450. .         .         .  IWE M  .         .         .         .         .         .         .
          1500. .         .         .   IWE M .         .         .         .         .         .         .
```

```
     .29  1550.  .         .         .    IE  M.         .         .         .         .         .         .         .
          1600.  .         .         .     IE  M         .         .         .         .         .         .         .
          1650.  .         .         .      IEL.M        .         .         .         .         .         .         .
          1700.  .         .         .       IWE M       .         .         .         .         .         .         .
          1750.  .         .         .         WE M      .         .         .         .         .         .         .
          1800.  .         .         .         .WE M     .         .         .         .         .         .         .
          1850.  .         .         .         . IE M    .         .         .         .         .         .         .
          1900.  .         .         .         .  IEL M  .         .         .         .         .         .         .
          1950.  .         .         .         .   IEL M .         .         .         .         .         .         .
          2000.  .         .         .         .    IEL M.         .         .         .         .         .         .
     .38  2050.  .         .         .         .     IEL M         .         .         .         .         .         .
          2100.  .         .         .         .      IEL.M        .         .         .         .         .         .
          2150.  .         .         .         .        WE M       .         .         .         .         .         .
          2200.  .         .         .         .         IEL M     .         .         .         .         .         .
          2250.  .         .         .         .         .IEL M    .         .         .         .         .         .
          2300.  .         .         .         .         .  EL M   .         .         .         .         .         .
          2350.  .         .         .         .         .   IE M  .         .         .         .         .         .
     .45  2400.  .         .         .         .         .    IE M .         .         .         .         .         .
          2450.  .         .         .         .         .     IE M.         .         .         .         .         .
          2500.  .         .         .         .         .       WE.M        .         .         .         .         .
          2550.  .         .         .         .         .        IE M       .         .         .         .         .
          2600.  .         .         .         .         .         IE M      .         .         .         .         .
          2650.  .         .         .         .         .         .IE M     .         .         .         .         .
          2700.  .         .         .         .         .         .  WEM    .         .         .         .         .
          2750.  .         .         .         .         .         .   IE M  .         .         .         .         .
     .52  2800.  .         .         .         .         .         .    E M .         .         .         .         .
1
   01JUN92      08:54:01                                                                                          PAGE    5
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```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN       FILE:  1A1.H2I
T3      WASH "1A1" - NORTH FORK CHOLLA WASH - TRIBUTARY TO WASH "1A"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0     1675.80     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0


1
   01JUN92      08:54:01                                                                                          PAGE    6


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 2
0

CCHV=     .300 CEHV=     .500
*SECNO  .000

3470 ENCROACHMENT STATIONS=     9949.4   10029.3  TYPE=      1  TARGET=       79.930
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          BEGIN WSEL = 1675.80 FROM X1=3.587 OF WASH "1A" - CHOLLA WASH
          CONFLUENCE WITH CHOLLA WASH

          Q @ X1 = 0.000 TO X1 = 0.100 EQUALS Q AT CROSS SECTION 3.587
          ON WASH "1A"          Q = 3227 CFS

     .000      6.30   1675.80   1675.78   1675.80   1677.66      1.86       .00       .00 100000.00
   3227.0        .0    3227.0        .0        .0     294.8        .0        .0        .0 100000.00
     .00       .00     10.95       .00      .000      .070      .000      .000   1669.50   9949.40
  .047657        0.        0.        0.         0         4         0       .00     79.93  10029.33


CCHV=     .100 CEHV=     .300
*SECNO  .100

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.4   10022.4  TYPE=      1  TARGET=       47.000

          Q @ X1 = 0.100 TO X1 = 0.525 EQUALS Q AT SUB-8
          Q = 704 CFS

     .100      3.12   1712.12   1712.12   1712.13   1713.10       .98     26.30       .09 100000.00
    704.0        .0     704.0        .0        .0      88.8        .0       2.3        .8 100000.00
     .02       .00      7.93       .00      .000      .070      .000      .000   1709.00   9975.45
   60421      430.      530.      600.        20         8         0       .00     46.92  10022.38


*SECNO  .195
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
   01JUN92      08:54:01                                                                          PAGE     7


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9985.9   10017.6  TYPE=      1  TARGET=       31.680
     .195      4.92   1747.92   1747.92   1747.93   1749.19      1.28     29.71       .09 100000.00
    704.0        .0     704.0        .0        .0      77.7        .0       3.3       1.2 100000.00
     .03       .00      9.06       .00      .000      .070      .000      .000   1743.00   9985.95
  .058452      500.      500.      470.        12        14         0       .00     31.60  10017.56


*SECNO  .286
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.9   10014.3  TYPE=      1  TARGET=       33.479
     .286      4.78   1799.78   1799.78   1799.78   1800.98      1.20     27.59       .01 100000.00
    704.0        .0     704.0        .0        .0      80.1        .0       4.2       1.6 100000.00
     .05       .00      8.79       .00      .000      .070      .000      .000   1795.00   9980.87
```

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   .056528      460.      480.      480.        13         8         0       .00     33.48  10014.35


*SECNO  .381
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.4   10020.6  TYPE=      1  TARGET=       41.260
     .381      4.12   1854.12   1854.12   1854.13   1855.19      1.07     29.13       .01 100000.00
    704.0        .0     704.0        .0        .0      84.7        .0       5.1       2.0 100000.00
      .07       .00      8.31       .00      .000      .070      .000      .000   1850.00   9979.42
   .060056      510.      500.      450.        11        15         0       .00     41.17  10020.58


*SECNO  .447
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.5   10028.1  TYPE=      1  TARGET=       52.609
     .447      3.50   1898.50   1898.50   1898.51   1899.41       .91     21.42       .02 100000.00
    704.0        .0     704.0        .0        .0      91.9        .0       5.8       2.4 100000.00
      .08       .00      7.66       .00      .000      .070      .000      .000   1895.00   9975.49
   .062398      360.      350.      320.        11        15         0       .00     52.52  10028.01


*SECNO  .525
7185 MINIMUM SPECIFIC ENERGY
1
   01JUN92      08:54:01                                                                          PAGE    8


    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.2   10030.9  TYPE=      1  TARGET=       51.721
     .525      3.31   1950.31   1950.31   1950.31   1951.25       .93     25.29       .01   1950.00
    704.0        .1     703.7        .2        .1      90.7        .1       6.7       2.9   1950.00
      .09      1.02      7.76      1.03      .100      .070      .100      .000   1947.00   9979.22
   .060984      370.      410.      420.        10        11         0       .00     51.72  10030.94


1
   01JUN92      08:54:01                                                                          PAGE    9


                                                                    THIS RUN EXECUTED 01JUN92     08:54:08
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST
```

WASH "1A1" - NORTH FORK

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	3227.00	1675.80	9949.40	9920.00	10050.00	10029.33	.00	79.93	6.30	1669.50	476.58	10.95
	.000	3227.00	1675.80	9949.40	9920.00	10050.00	10029.33	.00	79.93	6.30	1669.50	476.57	10.95
*	.100	704.00	1712.13	9975.42	9940.00	10045.00	10022.42	36.33	46.99	3.13	1709.00	598.19	7.90
*	.100	704.00	1712.12	9975.45	9940.00	10045.00	10022.38	36.32	46.92	3.12	1709.00	604.21	7.93
*	.195	704.00	1747.93	9985.92	9980.00	10025.00	10017.60	35.80	31.68	4.93	1743.00	577.32	9.02
*	.195	704.00	1747.92	9985.95	9980.00	10025.00	10017.56	35.79	31.60	4.92	1743.00	584.52	9.06
*	.286	704.00	1799.78	9980.87	9980.00	10015.00	10014.35	51.86	33.48	4.78	1795.00	565.52	8.79
*	.286	704.00	1799.78	9980.87	9980.00	10015.00	10014.35	51.87	33.48	4.78	1795.00	565.28	8.79
*	.381	704.00	1854.13	9979.37	9950.00	10050.00	10020.63	54.34	41.26	4.13	1850.00	593.40	8.27
*	.381	704.00	1854.12	9979.42	9950.00	10050.00	10020.58	54.33	41.17	4.12	1850.00	600.56	8.31
*	.447	704.00	1898.51	9975.45	9965.00	10040.00	10028.06	44.38	52.61	3.51	1895.00	618.41	7.63
*	.447	704.00	1898.50	9975.49	9965.00	10040.00	10028.01	44.38	52.52	3.50	1895.00	623.98	7.66
*	.525	704.00	1950.31	9979.22	9980.00	10030.00	10030.94	51.81	51.72	3.31	1947.00	610.80	7.76
*	.525	704.00	1950.31	9979.22	9980.00	10030.00	10030.94	51.81	51.72	3.31	1947.00	609.84	7.76

1

WASH "1A1" - NORTH FORK

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1675.80	.00	1677.66	79.93	.00	3227.00	.00	.00	.00	9920.00	10050.00	.00
	.000	1675.80	.00	1677.66	79.93	.00	3227.00	.00	79.93	9949.40	9920.00	10050.00	10029.33
*	.100	1712.13	.00	1713.10	46.99	.00	704.00	.00	.00	.00	9940.00	10045.00	.00
*	.100	1712.12	-.01	1713.10	46.92	.00	704.00	.00	47.00	9975.42	9940.00	10045.00	10022.42
*	.195	1747.93	.00	1749.19	31.68	.00	704.00	.00	.00	.00	9980.00	10025.00	.00
*	.195	1747.92	-.01	1749.19	31.60	.00	704.00	.00	31.68	9985.92	9980.00	10025.00	10017.60
*	.286	1799.78	.00	1800.98	33.48	.00	704.00	.00	.00	.00	9980.00	10015.00	.00
*	.286	1799.78	.00	1800.98	33.48	.00	704.00	.00	33.48	9980.87	9980.00	10015.00	10014.35
*	.381	1854.13	.00	1855.19	41.26	.00	704.00	.00	.00	.00	9950.00	10050.00	.00
*	.381	1854.12	-.01	1855.19	41.17	.00	704.00	.00	41.26	9979.37	9950.00	10050.00	10020.63
*	.447	1898.51	.00	1899.41	52.61	.00	704.00	.00	.00	.00	9965.00	10040.00	.00
	.447	1898.50	-.01	1899.41	52.52	.00	704.00	.00	52.61	9975.45	9965.00	10040.00	10028.06
*	.525	1950.31	.00	1951.25	51.72	.12	703.72	.15	.00	.00	9980.00	10030.00	.00
*	.525	1950.31	.00	1951.25	51.72	.13	703.72	.15	51.72	9979.22	9980.00	10030.00	10030.94

1

MARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      .100  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .100  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .100  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .100  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .100  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .100  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .195  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .195  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .195  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .195  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .286  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .286  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .286  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .286  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .381  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .381  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .381  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .381  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .447  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .447  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .447  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .447  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .525  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .525  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .525  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .525  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

1

FLOODWAY DATA, WASH "1A1" - NORTH FORK
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	80.	295.	10.9	1675.8	1675.8	.0
.100	47.	89.	7.9	1712.1	1712.1	.0
.195	32.	78.	9.1	1747.9	1747.9	.0
.286	33.	80.	8.8	1799.8	1799.8	.0
.381	41.	85.	8.3	1854.1	1854.1	.0
.447	53.	92.	7.7	1898.5	1898.5	.0
.525	52.	91.	7.7	1950.3	1950.3	.0

```
*****************************************
*  HEC-2 WATER SURFACE PROFILES         *
*                                       *
*  Version   4.6.2;  May 1991           *
*                                       *
*  RUN DATE    31OCT91    TIME   08:37:10 *
*****************************************
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*****************************************
*  U.S. ARMY CORPS OF ENGINEERS         *
*  HYDROLOGIC ENGINEERING CENTER        *
*  609 SECOND STREET, SUITE D           *
*  DAVIS, CALIFORNIA 95616-4687         *
*          (916) 756-1104               *
*****************************************
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X     X  XXXXXXX  XXXXX            XXXXX
X     X  X       X    X           X    X
X     X  X       X                     X
XXXXXXX  XXXX    X         XXXXX   XXXXX
X     X  X       X                X
X     X  X       X    X           X
X     X  XXXXXXX  XXXXX            XXXXXXX
```

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THIS RUN EXECUTED 31OCT91 08:37:11

1B.H2O - WATERFALL WASH
Latest Version
w/ Floodway

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*****************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*****************************************
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T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODPLAIN RUN FILE: 1B.H2I
T3 WASH "1B" - WATERFALL WASH - TRIBUTARY TO WASH "1"

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	0	1278.10	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	0	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	53	21	22	54	51	4	8
42	5	26	0	110	0	200			

NC	.07	.07	.035	.3	.5		
QT	2	2245	2245				
ET			9.1			9910	10518.25

BEGIN WSEL = 1278.10 FROM X1=2.186 ON WASH "1" - BEARDSLEY CANAL WASH. CONFLUENCE WITH BEARDSLEY CANAL WASH.

Q @ X1 = 0.000 TO X1 = 0.680 EQUALS Q AT CP3 (BEFORE DIVERSION)
Q = 2245 CFS

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE
CAPACITY IS EXCEEDED.

APPROXIMATELY 490 CFS BREAKS OUT EAST OVER BEARDSLEY CANAL.

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF THE OLIVE AVE.
CULVERTS. THIS WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT
TWO UPSTREAM CROSS SECTIONS. NO VOLUME LOSS IS REQUIRED BECAUSE
OF BREAKOUT TO THE EAST

X1	0.000	18	9955	10075	0	0	0			
GR	1277	9910	1276.5	9920	1276	9930	1274	9940	1272	9955
GR	1270	9980	1269.5	10000	1270	10010	1270.5	10030	1270	10045
GR	1272	10075	1274	10100	1275.5	10130	1275	10225	1276	10315
GR	1277.5	10410	1278	10515	1280	10580				

1

ET			9.1						9755	10346.91

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE
CAPACITY IS EXCEEDED.

X1	0.055	18	9970	10050	320	210	290			
GR	1277.6	9755	1276	9765	1272	9775	1270.7	9785	1272	9795
GR	1274	9805	1274.8	9870	1273.2	9920	1274.3	9970	1274	9985
GR	1272.6	10000	1274	10010	1276	10050	1275.5	10075	1277.7	10155
	1277.5	10230	1278	10340	1279.2	10390				
NC	.07	.07	.035	.1	.3					
ET			9.1						9395	10036.56
X1	0.131	25	9960	10055	480	340	400			
GR	1282.9	9230	1282	9235	1280	9250	1276	9260	1275.4	9275
GR	1276	9280	1278	9295	1279.3	9395	1278	9400	1277.4	9420
GR	1278	9510	1279.4	9650	1280	9780	1279.5	9835	1278.8	9875
GR	1279.6	9960	1278	9985	1276	9995	1275.9	10000	1276	10005
GR	1278	10015	1280	10055	1285	10105	1281.4	10155	1282.7	10205
ET			9.1						9550	10225.3
X1	0.206	22	9980	10035	300	380	400			
GR	1282.6	9260	1282	9280	1281	9325	1280	9380	1279	9400
GR	1280	9410	1281	9465	1280	9520	1282	9620	1282.6	9650
GR	1281.7	9720	1282.5	9785	1281.4	9850	1283	9890	1282	9980
GR	1280.3	10000	1282	10035	1282.6	10080	1282	10180	1284	10320
GR	1286	10410	1288	10465						
ET			9.1						9735	10103.21
X1	0.282	23	9985	10105	410	330	400			
GR	1286.1	9400	1286	9435	1286.4	9470	1283.7	9550	1284.2	9570
GR	1284	9590	1284.2	9610	1282.6	9625	1284.8	9660	1284.2	9705
GR	1285.1	9735	1283.8	9755	1286.1	9805	1285.7	9830	1286.3	9860
GR	1285.5	9895	1286.7	9945	1286	9985	1284	10000	1285.1	10055
	1284.3	10085	1286	10105	1288.2	10220				
ET			9.1						9725	10030.85
X1	.358	17	9970	10035	470	330	400			
GR	1294	9310	1292	9390	1291.2	9520	1290	9650	1287.8	9690
GR	1290.5	9725	1289.6	9755	1290.6	9800	1288.4	9865	1290	9880
GR	1290.5	9970	1290	9980	1288	9990	1287.2	10000	1288	10010

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GR    1290      10020     1291.5    10035

ET                        9.1                                                  9725     10026.07
X1    .434        19      9970      10030     380       440       400
GR    1296.4    9585      1296      9620      1294      9650      1292      9675     1291.6    9685
GR    1292      9690      1294.5    9725      1293.6    9790      1294      9820     1293      9840
GR    1294.7    9880      1293.7    9900      1294.8    9940      1294      9970     1292      9990
GR    1290.4    10000     1292      10015     1296      10030     1298.3    10075
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ET                        9.1                                                  9770     10047.16
X1    .509        23      9970      10020     380       380       400
GR    1300.4    9520      1300      9550      1298      9605      1297.2    9620     1298      9625
GR    1298.3    9640      1298      9655      1296      9670      1295.9    9675     1296      9680
GR    1298      9760      1298.4    9900      1298.2    9945      1299.2    9970     1298      9985
GR    1296      9995      1295.6    10000     1296      10005     1298      10020    1299.8    10060
GR    1300      10100     1302      10135     1304      10165

ET                        9.1                                                  9750     10025.18
X1    .585        20      9965      10035     360       410       400
GR    1306.5    9635      1306      9680      1304      9690      1302      9700     1300      9715
GR    1299.4    9730      1300.3    9750      1299.1    9770      1300      9780     1302      9805
GR    1303.2    9865      1304.3    9955      1304      9965      1302      9975     1300      9990
GR    1299.8    10000     1300      10010     1302      10020     1304      10030    1304.5    10035

ET                        9.1                                                  9730     10039.78
X1    .680        16      9985      10020     490       530       500
GR    1310      9600      1308.5    9670      1308      9685      1306.3    9700     1308      9730
GR    1306      9780      1305.7    9790      1306      9800      1308      9880     1308.7    9900
GR    1308      9985      1306      9995      1304.5    10000     1306      10010    1308      10020
GR    1309      10045

QT    2         2284      2284
ET                        9.1                                                  9874.40  10076.81

          Q @ X1 = 0.773 TO X1 = 2.083 EQUALS Q  AT CP2
          Q = 2284 CFS

X1    .773        17      9980      10030     490       490       490
GR    1316      9850      1314      9870      1312      9890      1311.6    9905     1312      9925
GR    1314      9965      1312      9980      1310      9990      1307.2    10000    1308      10010
GR    1310      10020     1312      10030     1314      10090     1313.7    10130    1314      10150
GR    1314.3    10205     1315.2    10265

NC    .07       .07       .035      .3        .5
ET                        9.1                                                  9983.47  10122.43
X1    .847        13      9990      10080     400       380       390
GR    1323      9840      1322      9875      1320      9960      1318      9980     1316      9990
GR    1314.3    10000     1316      10015     1314      10035     1312.2    10045    1314      10060
GR    1316      10080     1318      10145     1320.7    10210

ET                        9.1                                                  9906.63  10250

          RIGHT OVERBANK FLOW IS EFFECTIVE FOR THE NEXT 5 UPSTREAM CROSS
          SECTIONS DUE TO UPSTREAM INFLOW AT X1=1.352.

X1    .873        14      9950      10100     250       200       135
GR    1326      9665      1324      9720      1322      9880      1320      9950     1319.5    10000
GR    1319.5    10100     1320      10160     1322      10310     1324      10450    1326      10560
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GR	1324	10590	1320	10630	1324	10650	1326	10710		

1

ET			9.1						9778.87	10120.81
X1	.945	22	9950	10065	330	400	385			
GR	1327.5	9590	1326	9670	1324	9765	1322	9780	1320	9795
GR	1318	9820	1316	9830	1314	9840	1314	9950	1312	9955
GR	1312	10000	1314	10065	1316	10080	1318	10090	1320	10105
GR	1322	10120	1324	10130	1326	10200	1324	10260	1320	10300
GR	1324	10320	1326	10380						
ET			9.1						9515.14	10040
X1	1.049	29	9950	10040	480	550	550			
GR	1335	9415	1334	9475	1332	9545	1331.7	9560	1333	9600
GR	1330.7	9630	1334	9715	1334.1	9740	1334	9750	1332.7	9775
GR	1334	9855	1334.1	9910	1334	9950	1332	9990	1331.4	10000
GR	1332	10010	1334	10040	1335	10080	1334	10130	1332	10150
GR	1332	10165	1333	10200	1332	10230	1330	10260	1330	10280
GR	1332	10310	1332	10350	1334	10380	1335	10450		
NC	.07	.07	.035	.1	.3					
ET			9.1						9548.39	10090
X1	1.144	27	9955	10030	510	480	500			
GR	1344	9440	1342	9500	1340	9625	1338.5	9650	1341.5	9685
GR	1339.8	9720	1342	9760	1342.3	9780	1342	9830	1341	9885
GR	1341.7	9955	1340	9990	1338.9	10000	1340	10015	1342	10030
GR	1343.3	10080	1341.7	10150	1344.6	10245	1344	10305	1342	10335
	1340	10350	1338	10370	1336.3	10385	1338	10400	1340	10505
GR	1342	10580	1343.1	10630						
ET			9.1						9686.89	10090
X1	1.223	27	9965	10040	410	490	420			
GR	1350	9640	1348	9725	1346	9750	1348	9770	1350	9790
GR	1350	9810	1348	9825	1346.9	9850	1348	9870	1349.7	9920
GR	1348	9965	1346	9985	1344.8	10000	1346	10015	1348	10040
GR	1350	10135	1351.2	10170	1349.2	10240	1350	10260	1351.1	10305
GR	1350	10330	1348	10350	1347	10360	1348	10375	1350	10390
GR	1352	10540	1353	10590						
ET			9.1						9802.91	10100
X1	1.352	14	9980	10100	640	560	680			
GR	1361.7	9720	1360	9790	1358	9810	1356	9820	1355.1	9835
GR	1356	9845	1358	9855	1360	9880	1358	9980	1356.3	10000
GR	1357	10050	1358	10100	1359	10210	1359.7	10315		
ET			9.1						9542.90	10049.20
X1	1.479	16	9940	10070	620	630	670			
GR	1372	9520	1370	9545	1368	9560	1366	9565	1365.6	9575
GR	1366	9590	1368	9605	1370	9635	1368	9690	1369.7	9735
GR	1369.3	9760	1370	9770	1370.7	9860	1370	9940	1368.2	10000
GR	1371	10070								

1

ET			9.1						9748.09	10021.91
X1	1.585	10	9955	10050	440	600	560			
GR	1380	9720	1378	9770	1376	9820	1375.2	9845	1376	9870

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GR    1378      9915      1379      9955      1378      10000     1380      10050     1382      10100

ET                        9.1                                                           9961.4    10049
X1    1.706     11        9965      10040     600       550       640
      1390.5    9930      1390      9955      1388      9965      1386      9980      1384      9990
      1383.8    10000     1384      10010     1386      10020     1388      10040     1390      10065
GR    1390.2    10095

NC    .07       .07       .045      .3        .5
ET                        9.1                                                           9968.24   10021.42
X1    1.803     7         9975      10025     500       500       510
GR    1400.1    9950      1398      9975      1392      9995      1391      10000     1392      10005
GR    1400      10025     1402      10050

ET                        9.1                                                           9902.76   10036.85
X1    1.850     10        9975      10020     190       280       250
GR    1404      9895      1402      9925      1400      9940      1399      9950      1400.3    9975
GR    1398      10000     1400      10010     1402      10020     1404.2    10045     1404      10065

ET                        9.1                                                           9942.99   10081.35
X1    1.926     9         9950      10035     400       240       400
GR    1412      9920      1410      9935      1408      9950      1406      9980      1404      10000
GR    1406      10020     1408      10035     1408      10065     1410      10100

ET                        9.1                                                           9978.08   10050.12
X1    2.013     11        9970      10045     480       460       460
GR    1420      9865      1418      9925      1419      9955      1418      9970      1416      9980
GR    1412      9990      1411      10000     1412      10025     1414      10035     1416      10045
GR    1417.5    10065

                          9.1                                                           9964.17   10020.83
X1    2.083     15        9960      10025     380       360       370
GR    1428      9550      1426      9610      1426      9820      1424.2    9850      1425.5    9860
GR    1424      9900      1425      9940      1424      9960      1420      9970      1418      9985
GR    1416      10000     1418      10010     1420      10015     1424      10025     1424.8    10065

QT    2         1813      1813
ET                        9.1                                                           9944.58   10013.62

          Q @ X1 = 2.169 TO X1= 3.555 EQUALS (Q  AT CP2+ Q AT CP1)/2
          Q = (2284 + 1342)/2 = 1813 CFS

X1    2.169     17        9950      10020     430       460       450
GR    1437      9810      1436      9830      1434      9850      1433      9860      1434      9885
GR    1434.2    9905      1434      9915      1432      9935      1430      9950      1428      9965
GR    1426      9985      1425.5    10000     1430      10010     1432      10020     1434      10050
GR    1436      10080     1437      10130
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ET                        9.1                                                           9950      10015.83
X1    2.263     13        9950      10020     410       530       500
GR    1447      9815      1446      9870      1440      9905      1438      9915      1437      9930
      1438      9950      1436      9970      1434      9985      1432      10000     1440      10020
      1446      10040     1448      10055     1450      10090

ET                        9.1                                                           9975.9    10135.68
X1    2.313     18        9980      10045     170       230       260
GR    1449      9845      1448      9935      1446      9950      1444      9980      1440      9990
GR    1439      10000     1440      10010     1442      10025     1444      10045     1446      10060
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GR	1447	10075	1446	10090	1444	10115	1443.5	10125	1444	10135
GR	1450	10150	1452	10170	1453	10210				
ET			9.1						9981.58	10218.82
X1	2.360	16	9980	10060	340	80	250			
GR	1453	9875	1452	9970	1450	9980	1448	9990	1447.5	10000
GR	1448	10030	1450	10060	1448	10105	1447	10120	1448	10135
GR	1449	10160	1448	10190	1446	10205	1450	10220	1452	10235
GR	1453	10280								
ET			9.1						9951.41	10109.29
X1	2.403	17	9950	10040	250	150	230			
GR	1460	9840	1458	9895	1456	9910	1454	9950	1452	9970
GR	1450	9990	1449.5	10000	1450	10010	1452	10025	1454	10040
GR	1455	10060	1454	10075	1452	10100	1454	10110	1456	10125
GR	1458	10150	1459	10175						
ET			9.1						9944.48	10017.63
X1	2.456	12	9935	10020	260	250	280			
GR	1462.5	9865	1462	9890	1460	9935	1458	9955	1456	9980
GR	1454	9995	1453.5	10000	1454	10005	1460	10020	1462	10030
GR	1464	10040	1465	10060						
ET			9.1						9968.6	10042.79
X1	2.551	12	9960	10060	480	480	500			
GR	1474	9930	1470	9960	1468	9975	1464	9990	1463.8	10000
GR	1464	10005	1466	10020	1468	10030	1470	10060	1476	10100
GR	1476	10140	1480	10190						
ET			9.1						9981.57	10063.71
X1	2.646	11	9980	10040	570	470	500			
GR	1491	9815	1490	9825	1488	9870	1486	9930	1484	9960
GR	1480	9980	1476	9995	1474.5	10000	1476	10020	1478	10040
GR	1480	10070								
ET			9.1						9957.41	10023.07
X1	2.742	10	9945	10040	260	570	510			
GR	1495.5	9915	1494	9945	1490	9980	1488	9990	1487	10000
GR	1488	10005	1490	10015	1498	10040	1500	10115	1501	10160

NC	.10	.10	.05	.1	.3					
ET			9.1						9970.68	10070.78
X1	2.837	12	9960	10040	490	490	500			
GR	1507	9930	1506	9960	1500	9985	1499	10000	1500	10020
GR	1502	10035	1503	10040	1502	10060	1504	10075	1506	10090
GR	1510	10120	1511	10130						
ET			9.1						9972.43	10039.17
X1	2.934	12	9965	10080	570	460	510			
GR	1524	9920	1522	9955	1520	9965	1510	9975	1508	9995
GR	1507	10000	1508	10010	1510	10025	1520	10080	1522	10110
GR	1524	10125	1525	10170						
ET			9.1						9986.29	10081.62
X1	3.030	13	9980	10060	470	440	510			
GR	1539	9885	1538	9920	1538.5	9940	1538	9960	1530	9980
GR	1522	9990	1521	10000	1522	10025	1524	10060	1524	10080
GR	1530	10090	1538	10120	1540	10160				

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ET                          9.1                                                          9907.17    10025.89
X1    3.125        13      9960     10045      430      510      500
GR     1556      9865      1550      9890     1540     9910     1538      9920      1540      9940
       1541      9960      1540      9975     1538     9990     1537     10000      1538     10010
GR     1540     10020      1546     10045     1547    10060

ET                          9.1                                                          9979.17    10030.78
X1    3.220         9      9970     10030      510      430      500
GR     1563      9955      1562      9970     1560     9985     1556      9990    1555.5     10000
GR     1556     10010      1560     10030     1570    10040     1577     10100

ET                          9.1                                                          9974.60    10016.94
X1    3.314         7      9970     10020      480      550      500
GR     1600      9920      1590      9940     1580     9970     1571     10000      1580     10020
GR     1590     10120      1600     10205

ET                          9.1                                                          9961.77    10016.39
X1    3.409         9      9965     10015      480      430      500
GR     1620      9835      1610      9930     1600     9965     1595     10000      1600     10015
GR     1610     10030      1616     10050     1618    10090     1620     10120

ET                          9.1                                                          9934.42    10011.68
X1    3.479         7      9910     10030      370      370      370
GR     1640      9860      1630      9910     1621     9950     1622      9980      1621     10000
GR     1630     10030      1640     10045

ET                          9.1                                                          9975.77    10036.34
X1    3.555         5      9960     10060      410      390      400
GR     1660      9855      1650      9960     1640    10000     1650     10060      1660     10080
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


*PROF 1
0

CCHV=     .300 CEHV=     .500
*SECNO  .000
3280 CROSS SECTION       .00 EXTENDED      1.10 FEET
```

BEGIN WSEL = 1278.10 FROM X1=2.186 ON WASH "1" - BEARDSLEY CANAL WASH. CONFLUENCE WITH BEARDSLEY CANAL WASH.

Q @ X1 = 0.000 TO X1 = 0.680 EQUALS Q AT CP3 (BEFORE DIVERSION)
Q = 2245 CFS

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE CAPACITY IS EXCEEDED.

APPROXIMATELY 490 CFS BREAKS OUT EAST OVER BEARDSLEY CANAL.

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF THE OLIVE AVE. CULVERTS. THIS WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT TWO UPSTREAM CROSS SECTIONS. NO VOLUME LOSS IS REQUIRED BECAUSE

OF BREAKOUT TO THE EAST

.000	8.60	1278.10	.00	1278.10	1278.14	.04	.00	.00	1272.00
2245.0	81.5	1732.7	430.8	139.5	915.7	897.9	.0	.0	1272.00
.00	.58	1.89	.48	.070	.035	.070	.000	1269.50	9910.00
.000132	0.	0.	0.	0	0	0	.00	608.25	10518.25

*SECNO .055
3280 CROSS SECTION .05 EXTENDED .57 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .47

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE
CAPACITY IS EXCEEDED.

.055	7.47	1278.17	.00	.00	1278.22	.05	.07	.00	1274.30
2245.0	1287.7	785.1	172.2	917.1	308.5	274.4	10.8	3.4	1276.00
.05	1.40	2.54	.63	.070	.035	.070	.000	1270.70	9755.00
.000596	320.	290.	210.	2	0	0	.00	591.91	10346.91

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO .131

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.131	3.68	1279.08	1279.08	.00	1279.56	.48	.79	.13	1279.60
2245.0	1515.0	730.0	.0	373.4	93.5	.0	20.8	8.6	1280.00
.07	4.06	7.80	.00	.070	.035	.000	.000	1275.40	9252.31
.022461	480.	400.	340.	20	9	0	.00	461.34	10036.56

*SECNO .206

3265 DIVIDED FLOW

3280 CROSS SECTION .21 EXTENDED .05 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.04

.206	3.65	1282.65	.00	.00	1282.76	.10	3.16	.04	1282.00
2245.0	1859.4	336.0	49.6	836.3	82.3	65.0	26.1	13.7	1282.00
.11	2.22	4.08	.76	.070	.035	.070	.000	1279.00	9260.00
.005408	300.	400.	380.	6	0	0	.00	924.71	10225.30

*SECNO .282

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

.282	3.25	1285.85	.00	.00	1286.11	.26	3.30	.05	1286.00
2245.0	1532.7	712.3	.0	464.7	132.7	.0	33.4	20.1	1286.00
.13	3.30	5.37	.00	.070	.035	.000	.000	1282.60	9486.36
.013546	410.	400.	330.	4	0	0	.00	476.62	10103.21

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .358

.358	3.89	1291.09	.00	.00	1291.47	.38	5.32	.04	1290.50
2245.0	1357.6	887.4	.0	500.9	125.7	.0	39.8	25.2	1291.50
.16	2.71	7.06	.00	.070	.035	.000	.000	1287.20	9532.41
.010640	470.	400.	330.	4	0	0	.00	498.45	10030.85

*SECNO .434

.434	4.55	1294.95	.00	.00	1295.55	.60	4.02	.07	1294.00
2245.0	1038.5	1206.5	.0	388.3	149.2	.0	45.0	29.1	1296.00
.18	2.67	8.09	.00	.070	.035	.000	.000	1290.40	9635.73
.010012	380.	400.	440.	4	0	0	.00	390.34	10026.07

*SECNO .509

.509	3.62	1299.22	.00	.00	1299.53	.31	3.95	.03	1299.20
2245.0	1548.0	671.3	25.8	526.7	99.1	16.6	50.2	32.9	1298.00
.21	2.94	6.77	1.55	.070	.035	.070	.000	1295.60	9571.39
.010330	380.	400.	380.	4	0	0	.00	475.77	10047.16

*SECNO .585

3265 DIVIDED FLOW

.585	3.93	1303.03	.00	.00	1303.52	.49	3.93	.05	1304.00
2245.0	1379.5	865.5	.0	326.4	119.0	.0	54.8	35.8	1304.50
.23	4.23	7.27	.00	.070	.035	.000	.000	1299.10	9694.82
.010713	360.	400.	410.	2	0	0	.00	217.38	10025.18

*SECNO .680

.680	4.29	1308.79	.00	.00	1309.33	.55	5.80	.02	1308.00
2245.0	1446.3	788.5	10.2	421.9	88.9	7.8	60.2	39.2	1308.00
.25	3.43	8.87	1.30	.070	.035	.070	.000	1304.50	9656.42
.012926	490.	500.	530.	4	0	0	.00	383.36	10039.78

*SECNO .773

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 0.773 TO X1 = 2.083 EQUALS Q AT CP2
Q = 2284 CFS

.773	6.36	1313.56	1313.56	.00	1314.82	1.26	4.90	.21	1312.00
2284.0	243.5	1981.8	58.7	107.3	206.0	36.5	65.1	42.5	1312.00
.27	2.27	9.62	1.61	.070	.035	.070	.000	1307.20	9874.40
.007981	490.	490.	490.	4	15	0	.00	190.32	10076.81

CCHV= .300 CEHV= .500
SECNO .847

.847	5.11	1317.31	1317.28	.00	1318.50	1.20	3.67	.02	1316.00
2284.0	7.1	2230.0	46.9	4.3	251.3	27.7	67.9	43.9	1316.00
.28	1.67	8.88	1.69	.070	.035	.070	.000	1312.20	9983.47
.011232	400.	390.	380.	4	16	0	.00	138.96	10122.43

*SECNO .873

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

RIGHT OVERBANK FLOW IS EFFECTIVE FOR THE NEXT 5 UPSTREAM CROSS
SECTIONS DUE TO UPSTREAM INFLOW AT X1=1.352.

.873	1.74	1321.24	1321.24	.00	1321.91	.67	1.84	.16	1320.00
2284.0	50.6	1801.6	431.9	26.9	248.4	158.4	69.2	44.9	1319.50
.29	1.88	7.25	2.73	.070	.035	.070	.000	1319.50	9906.63
.014903	250.	135.	200.	20	17	0	.00	364.88	10636.20

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV

Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .945

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 16.78

.945	10.15	1322.15	.00	.00	1322.17	.02	.07	.19	1314.00
2284.0	653.8	1521.5	108.6	1115.6	1097.3	258.0	81.4	48.1	1314.00
.38	.59	1.39	.42	.070	.035	.070	.000	1312.00	9778.87
.000053	330.	385.	400.	3	0	0	.00	374.13	10310.75

*SECNO 1.049

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.049	2.85	1332.85	1332.85	.00	1333.35	.50	.10	.24	1334.00
2284.0	563.1	246.4	1474.5	139.1	35.8	247.9	98.7	53.0	1334.00
.41	4.05	6.89	5.95	.070	.035	.070	.000	1330.00	9515.14
.041002	480.	550.	550.	20	14	0	.00	437.86	10362.79

CCHV= .100 CEHV= .300
*SECNO 1.144

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.16

1.144	4.93	1341.23	.00	.00	1341.43	.20	8.05	.03	1341.70
2284.0	392.9	278.0	1613.1	183.0	65.5	434.3	104.9	58.3	1342.00
.45	2.15	4.24	3.71	.070	.035	.070	.000	1336.30	9548.39
.008823	510.	500.	480.	8	0	0	.00	493.25	10550.96

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.223

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible]3 PROBABLE MINIMUM SPECIFIC ENERGY
[illegible]20 CRITICAL DEPTH ASSUMED

1.223	4.10	1348.90	1348.90	.00	1349.70	.81	4.45	.18	1348.00
2284.0	547.1	1603.3	133.6	197.0	190.3	61.1	110.7	62.5	1348.00
.47	2.78	8.43	2.19	.070	.035	.070	.000	1344.80	9686.89
.011443	410.	420.	490.	20	9	0	.00	352.20	10381.73

*SECNO 1.352

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.352	3.61	1358.71	1358.71	.00	1359.53	.82	9.67	.00	1358.00
2284.0	666.8	1576.5	40.7	131.4	194.6	27.7	116.7	67.2	1358.00
.49	5.07	8.10	1.47	.070	.035	.070	.000	1355.10	9802.91
.019122	640.	680.	560.	13	15	0	.00	294.46	10178.03

*SECNO 1.479

3265 DIVIDED FLOW

1.479	4.57	1370.17	.00	.00	1370.52	.35	10.94	.05	1370.00
2284.0	1683.8	600.2	.0	374.1	112.5	.0	122.9	72.1	1371.00
.53	4.50	5.34	.00	.070	.035	.000	.000	1365.60	9542.90
.015192	620.	670.	630.	6	0	0	.00	377.09	10049.20

*SECNO 1.585

3265 DIVIDED FLOW

1.585	3.67	1378.87	.00	.00	1379.40	.53	8.83	.06	1379.00
2284.0	2179.5	104.5	.0	367.1	26.9	.0	127.5	75.6	1380.00
.55	5.94	3.89	.00	.070	.035	.000	.000	1375.20	9748.09
.025201	440.	560.	600.	3	0	0	.00	263.32	10021.91

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.706

[illegible] HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

1.706	4.91	1388.71	1388.71	.00	1390.22	1.51	10.53	.29	1388.00

2284.0	1.5	2278.7	3.8	1.3	231.0	3.2	131.9	78.1	1388.00
.57	1.17	9.87	1.18	.070	.035	.070	.000	1383.80	9961.40
.012184	600.	640.	550.	6	11	0	.00	87.59	10049.00

CEHV= .300 CEHV= .500

*SECNO 1.803

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.803	7.57	1398.57	1398.57	.00	1400.67	2.10	7.74	.30	1398.00
2284.0	2.5	2281.5	.0	1.9	196.0	.0	134.5	78.9	1400.00
.58	1.28	11.64	.00	.070	.045	.000	.000	1391.00	9968.23
.019443	500.	510.	500.	3	14	0	.00	53.19	10021.42

*SECNO 1.850

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

1.850	5.48	1403.48	.00	.00	1404.20	.72	3.12	.41	1400.30
2284.0	852.7	1410.4	20.9	189.3	177.9	12.5	136.0	79.4	1402.00
.59	4.50	7.93	1.68	.070	.045	.070	.000	1398.00	9902.77
.009351	190.	250.	280.	2	0	0	.00	134.07	10036.84

*SECNO 1.926
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.926	4.93	1408.93	1408.93	.00	1410.13	1.20	5.02	.24	1408.00
2284.0	5.6	2188.9	89.5	3.3	244.4	35.6	139.0	80.5	1408.00
.60	1.71	8.96	2.51	.070	.045	.070	.000	1404.00	9943.00
.018110	400.	400.	240.	3	15	0	.00	138.34	10081.34

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.013

2.013	5.39	1416.39	.00	.00	1417.76	1.37	7.54	.09	1418.00
2284.0	.0	2283.1	.9	.0	242.9	1.0	141.8	81.6	1416.00
.62	.00	9.40	.86	.000	.045	.070	.000	1411.00	9978.08
.014899	480.	460.	460.	4	0	0	.00	72.05	10050.13

*SECNO 2.083

2.083	6.33	1422.33	1422.25	.00	1424.11	1.78	6.15	.20	1424.00
2284.0	.0	2284.0	.0	.0	213.5	.0	143.7	82.2	1424.00
.63	.00	10.70	.00	.000	.045	.000	.000	1416.00	9964.17
.018640	380.	370.	360.	4	8	0	.00	56.66	10020.83

*SECNO 2.169

1 HV CHANGED MORE THAN HVINS

Q @ X1 = 2.169 TO X1= 3.555 EQUALS (Q AT CP2+ Q AT CP1)/2
Q = (2284 + 1342)/2 = 1813 CFS

2.169	5.22	1430.72	.00	.00	1431.92	1.20	7.64	.17	1430.00
1813.0	2.6	1810.4	.0	2.0	206.0	.0	145.9	82.8	1432.00
.64	1.32	8.79	.00	.070	.045	.000	.000	1425.50	9944.57
.015189	430.	450.	460.	4	0	0	.00	69.04	10013.62

*SECNO 2.263

2.263	6.33	1438.33	.00	.00	1439.40	1.07	7.44	.04	1438.00
1813.0	66.4	1746.6	.0	29.4	206.7	.0	148.4	83.8	1440.00
.66	2.26	8.45	.00	.070	.045	.000	.000	1432.00	9913.34
.014694	410.	500.	530.	4	0	0	.00	102.49	10015.83

*SECNO 2.313

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.313	5.27	1444.27	1444.27	.00	1445.60	1.33	4.30	.13	1444.00
1813.0	.4	1792.1	20.4	.6	192.7	11.3	149.7	84.3	1444.00
.67	.78	9.30	1.81	.070	.045	.070	.000	1439.00	9975.91
.019031	170.	260.	230.	3	15	0	.00	95.24	10135.68

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.360

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

2.360	3.68	1449.68	.00	.00	1450.17	.49	4.32	.25	1450.00
1813.0	.0	707.6	1105.4	.0	105.8	228.3	150.7	84.9	1450.00
.68	.00	6.69	4.84	.000	.045	.070	.000	1446.00	9981.58
.025470	340.	250.	80.	2	0	0	.00	225.41	10218.82

*SECNO 2.403

3265 DIVIDED FLOW

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    2.403      4.36   1453.86   1453.79      .00   1454.85      .99      4.43      .25   1454.00
   1813.0        .0    1729.7      83.3       .0     212.5     30.2     152.0     85.6   1454.00
      .68       .00      8.14      2.76     .000      .045     .070      .000  1449.50   9951.41
  .018768      250.      230.      150.        5         8        0       .00    120.05  10109.29


*SECNO 2.456
    2.456      5.55   1459.05       .00       .00   1460.29     1.24      5.32      .13   1460.00
   1813.0        .0    1813.0        .0        .0     202.6       .0     153.5     86.2   1460.00
      .69       .00      8.95       .00      .000      .045     .000      .000  1453.50   9944.47
  .019329      260.      280.      250.        3         0        0       .00     73.16  10017.63


*SECNO 2.551
    2.551      5.05   1468.85       .00       .00   1470.11     1.26      9.81      .01   1470.00
   1813.0        .0    1813.0        .0        .0     201.5       .0     155.8     87.1   1470.00
      .71       .00      9.00       .00      .000      .045     .000      .000  1463.80   9968.61
  .019903      480.      500.      480.        4         0        0       .00     74.18  10042.78


*SECNO 2.646
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.646      5.08   1479.58   1479.58      .00   1480.98     1.40      9.63      .07   1480.00
   1813.0        .0    1766.6      46.4       .0     183.9     18.7     158.1     88.0   1478.00
      .72       .00      9.61      2.48     .000      .045     .070      .000  1474.50   9981.57
  .018692      570.      500.      470.        4         5        0       .00     82.14  10063.71


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 10CT91      08:37:11                                                                          PAGE   17

   SECNO     DEPTH     CWSEL     CRIWS    WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB     ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB     XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR    ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 2.742
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.742      5.58   1492.58   1492.58      .00   1494.03     1.45     10.26      .03   1494.00
   1813.0        .0    1813.0        .0        .0     187.4       .0     160.4     88.9   1498.00
      .74       .00      9.67       .00      .000      .045     .000      .000  1487.00   9957.41
  .021659      260.      510.      570.       14         8        0       .00     65.66  10023.07


CCHV=     .100 CEHV=     .300
*SECNO 2.837
    2.837      4.44   1503.44   1503.30      .00   1504.57     1.13     10.50      .03   1506.00
   1813.0        .0    1761.8      51.2       .0     203.7     26.5     162.8     89.8   1503.00
      .75       .00      8.65      1.93     .000      .050     .100      .000  1499.00   9970.68
  .020398      490.      500.      490.        6        19        0       .00    100.10  10070.78


CNO 2.934
    2.934      5.57   1512.57       .00       .00   1513.60     1.03      9.02      .01   1520.00
   1813.0        .0    1813.0        .0        .0     222.8       .0     165.4     90.8   1520.00
      .77       .00      8.14       .00      .000      .050     .000      .000  1507.00   9972.42
  .015527      570.      510.      460.        5         0        0       .00     66.74  10039.16
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*SECNO 3.030
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.030	3.97	1524.97	1524.97	.00	1526.20	1.23	9.97	.06	1530.00
1813.0	.0	1766.7	46.3	.0	196.1	20.2	168.0	91.7	1524.00
.79	.00	9.01	2.29	.000	.050	.100	.000	1521.00	9986.28
.025464	470.	510.	440.	20	19	0	.00	95.34	10081.62

*SECNO 3.125
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.125	4.41	1541.41	1541.41	.00	1542.49	1.08	13.65	.02	1541.00
1813.0	382.7	1430.3	.0	92.7	156.5	.0	170.6	92.9	1546.00
.80	4.13	9.14	.00	.100	.050	.000	.000	1537.00	9907.17
.030231	430.	500.	510.	20	8	0	.00	118.72	10025.89

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.220

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.220	5.28	1560.78	1560.78	.00	1562.50	1.72	13.98	.19	1562.00
1813.0	.0	1812.7	.3	.0	172.3	.3	173.0	93.9	1560.00
.82	.00	10.52	1.01	.000	.050	.100	.000	1555.50	9979.16
.025822	510.	500.	430.	17	11	0	.00	51.62	10030.78

*SECNO 3.314
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.314	7.62	1578.62	1578.62	.00	1580.58	1.96	12.99	.07	1580.00
1813.0	.0	1813.0	.0	.0	161.3	.0	174.9	94.4	1580.00
.83	.00	11.24	.00	.000	.050	.000	.000	1571.00	9974.60
.026131	480.	500.	550.	10	14	0	.00	42.34	10016.93

*SECNO 3.409
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.409	5.92	1600.92	1600.92	.00	1602.66	1.73	12.85	.02	1600.00
1813.0	2.1	1810.1	.8	1.5	171.2	.6	176.8	95.0	1600.00
.84	1.38	10.57	1.25	.100	.050	.100	.000	1595.00	9961.77
.025293	480.	500.	430.	16	19	0	.00	54.62	10016.39

*SECNO 3.479

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.479	3.50	1624.50	1624.50	.00	1625.81	1.30	9.76	.04	1630.00
1813.0	.0	1813.0	.0	.0	198.0	.0	178.4	95.5	1630.00
.85	.00	9.16	.00	.000	.050	.000	.000	1621.00	9934.42
.027515	370.	370.	370.	20	14	0	.00	77.26	10011.68

*SECNO 3.555
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.555	6.06	1646.06	1646.06	.00	1647.57	1.52	10.68	.06	1650.00
1813.0	.0	1813.0	.0	.0	183.4	.0	180.2	96.2	1650.00
.86	.00	9.88	.00	.000	.050	.000	.000	1640.00	9975.77
.025936	410.	400.	390.	17	14	0	.00	60.57	10036.34

1
PROFILE FOR STREAM WASH "1B" - WATERFALL WA

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1270.	1320.	1370.	1420.	1470.	1520.	1570.	1620.	1670.	1720.
SECNO	CUMDIS									
.00	0. ILE	.	.	.	.	.	.	.	.	.
	50. ILE	.	.	.	.	.	.	.	.	.
	100. ILE	.	.	.	.	.	.	.	.	.
	150. ILE	.	.	.	.	.	.	.	.	.
	200. ILE	.	.	.	.	.	.	.	.	.
	250. ILE	.	.	.	.	.	.	.	.	.
.05	300. ILE	.	.	.	.	.	.	.	.	.
	350. ILE	.	.	.	.	.	.	.	.	.
	400. ILE	.	.	.	.	.	.	.	.	.
	450. CIE	.	.	.	.	.	.	.	.	.
	500. CIE	.	.	.	.	.	.	.	.	.
	550. CIE	.	.	.	.	.	.	.	.	.
	600. CIE	.	.	.	.	.	.	.	.	.
	650. CIEM	.	.	.	.	.	.	.	.	.
.13	700. .IEM	.	.	.	.	.	.	.	.	.
	750. CIEM	.	.	.	.	.	.	.	.	.
	800. CIEM	.	.	.	.	.	.	.	.	.
	850. CIEM	.	.	.	.	.	.	.	.	.
	900. C EM	.	.	.	.	.	.	.	.	.
	950. C EM	.	.	.	.	.	.	.	.	.
	1000. C EM	.	.	.	.	.	.	.	.	.
	1050. C IE	.	.	.	.	.	.	.	.	.

.21	1100.	C	IE	.	.	.	.	.	.	.	.	.	.
	1150.	C	IE	.	.	.	.	.	.	.	.	.	.
	1200.	C	IE	.	.	.	.	.	.	.	.	.	.
	1250.	C	IE	.	.	.	.	.	.	.	.	.	.
	1300.	C	IE	.	.	.	.	.	.	.	.	.	.
	1350.	C	IE	.	.	.	.	.	.	.	.	.	.
	1400.	C	IE	.	.	.	.	.	.	.	.	.	.
	1450.	C	E	.	.	.	.	.	.	.	.	.	.
.28	1500.	C	E	.	.	.	.	.	.	.	.	.	.
	1550.	C	E	.	.	.	.	.	.	.	.	.	.
	1600.	C	IE	.	.	.	.	.	.	.	.	.	.
	1650.	C	IE	.	.	.	.	.	.	.	.	.	.
	1700.	C	IE	.	.	.	.	.	.	.	.	.	.
	1750.	C	IE	.	.	.	.	.	.	.	.	.	.
	1800.	C	IE	.	.	.	.	.	.	.	.	.	.
	1850.	C	IE	.	.	.	.	.	.	.	.	.	.
.36	1900.	C	E	.	.	.	.	.	.	.	.	.	.
	1950.	C	ER	.	.	.	.	.	.	.	.	.	.
	2000.	C	IE	.	.	.	.	.	.	.	.	.	.
	2050.	C	IE	.	.	.	.	.	.	.	.	.	.
	2100.	C	IE	.	.	.	.	.	.	.	.	.	.
	2150.	C	IE	.	.	.	.	.	.	.	.	.	.
	2200.	C	IE	.	.	.	.	.	.	.	.	.	.
	2250.	C	IE	.	.	.	.	.	.	.	.	.	.
.43	2300.	C	IE	.	.	.	.	.	.	.	.	.	.
	2350.	C	IE	.	.	.	.	.	.	.	.	.	.
	2400.	C	IEM	.	.	.	.	.	.	.	.	.	.
	2450.	C	WE	.	.	.	.	.	.	.	.	.	.
	2500.	C	IE	.	.	.	.	.	.	.	.	.	.
	2550.	C	IE	.	.	.	.	.	.	.	.	.	.
	2600.	C	IE	.	.	.	.	.	.	.	.	.	.
	2650.	C	IE	.	.	.	.	.	.	.	.	.	.
.51	2700.	C	IE	.	.	.	.	.	.	.	.	.	.
	2750.	C	IE	.	.	.	.	.	.	.	.	.	.
	2800.	C	IE	.	.	.	.	.	.	.	.	.	.
	2850.	C	IE	.	.	.	.	.	.	.	.	.	.
	2900.	C	EM	.	.	.	.	.	.	.	.	.	.
	2950.	C	WE	.	.	.	.	.	.	.	.	.	.
	3000.	C	IE	.	.	.	.	.	.	.	.	.	.
	3050.	C	IE	.	.	.	.	.	.	.	.	.	.
.58	3100.	C	IE	.	.	.	.	.	.	.	.	.	.
	3150.	C	IE	.	.	.	.	.	.	.	.	.	.
	3200.	C	IE	.	.	.	.	.	.	.	.	.	.
	3250.	C	IE	.	.	.	.	.	.	.	.	.	.
	3300.	C	IE	.	.	.	.	.	.	.	.	.	.
	3350.	C	IE	.	.	.	.	.	.	.	.	.	.
	3400.	C	WE	.	.	.	.	.	.	.	.	.	.
	3450.	C	IE	.	.	.	.	.	.	.	.	.	.
	3500.	C	IE	.	.	.	.	.	.	.	.	.	.
	3550.	C	IE	.	.	.	.	.	.	.	.	.	.
.68	3600.	C	IE	.	.	.	.	.	.	.	.	.	.
	3650.	C	IE	.	.	.	.	.	.	.	.	.	.
	3700.	C	IE	.	.	.	.	.	.	.	.	.	.
	3750.	C	IE	.	.	.	.	.	.	.	.	.	.
	3800.	C	IE	.	.	.	.	.	.	.	.	.	.
	3850.	C	IWE.	.	.	.	.	.	.	.	.	.	.
	3900.	C	IWE.	.	.	.	.	.	.	.	.	.	.
	3950.	C	ILE.	.	.	.	.	.	.	.	.	.	.
	4000.	C	ILE.	.	.	.	.	.	.	.	.	.	.
	4050.	C	ILE.	.	.	.	.	.	.	.	.	.	.
.77	4100.	.	IE.	.	.	.	.	.	.	.	.	.	.
	4150.	.	IE.	.	.	.	.	.	.	.	.	.	.

	4200.	.		IE.	.	.	.	.	.	.	.	.	.	.
	4250.	.		IEM	.	.	.	.	.	.	.	.	.	.
	4300.	.		IEM	.	.	.	.	.	.	.	.	.	.
	4350.	.		IWE	.	.	.	.	.	.	.	.	.	.
	4400.	.		IWE	.	.	.	.	.	.	.	.	.	.
	4450.	.		IWE	.	.	.	.	.	.	.	.	.	.
.85	4500.	.		IE	.	.	.	.	.	.	.	.	.	.
	4550.	.		IEM	.	.	.	.	.	.	.	.	.	.
	4600.	.		EM	.	.	.	.	.	.	.	.	.	.
.87	4650.	.		EM	.	.	.	.	.	.	.	.	.	.
	4700.	C		EM	.	.	.	.	.	.	.	.	.	.
	4750.	C		EM	.	.	.	.	.	.	.	.	.	.
	4800.	C		IWE	.	.	.	.	.	.	.	.	.	.
	4850.	C		IWE	.	.	.	.	.	.	.	.	.	.
	4900.	C		IWE	.	.	.	.	.	.	.	.	.	.
	4950.	C		IWE	.	.	.	.	.	.	.	.	.	.
.94	5000.	C		I.E	.	.	.	.	.	.	.	.	.	.
	5050.	C		I.E	.	.	.	.	.	.	.	.	.	.
	5100.	C		ILEM	.	.	.	.	.	.	.	.	.	.
	5150.	C		ILEM	.	.	.	.	.	.	.	.	.	.
	5200.	C		IEM	.	.	.	.	.	.	.	.	.	.
	5250.	C		ILE	.	.	.	.	.	.	.	.	.	.
	5300.	C		ILE	.	.	.	.	.	.	.	.	.	.
	5350.	C		.IE	.	.	.	.	.	.	.	.	.	.
	5400.	C		.IEM	.	.	.	.	.	.	.	.	.	.
	5450.	C		.IEM	.	.	.	.	.	.	.	.	.	.
	5500.	C		. WE	.	.	.	.	.	.	.	.	.	.
1.05	5550.	.		. IE	.	.	.	.	.	.	.	.	.	.
	5600.	C		. IE	.	.	.	.	.	.	.	.	.	.
	5650.	C		. IE	.	.	.	.	.	.	.	.	.	.
	5700.	C		. IEM	.	.	.	.	.	.	.	.	.	.
	5750.	C		. EL	.	.	.	.	.	.	.	.	.	.
	5800.	C		. IE	.	.	.	.	.	.	.	.	.	.
	5850.	C		. IE	.	.	.	.	.	.	.	.	.	.
	5900.	C		. IE	.	.	.	.	.	.	.	.	.	.
	5950.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6000.	C		. IEM	.	.	.	.	.	.	.	.	.	.
1.14	6050.	C		. IER	.	.	.	.	.	.	.	.	.	.
	6100.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6150.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6200.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6250.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6300.	C		. IEM	.	.	.	.	.	.	.	.	.	.
	6350.	C		. WE	.	.	.	.	.	.	.	.	.	.
	6400.	C		. IE	.	.	.	.	.	.	.	.	.	.
	6450.	.	C	. IE	.	.	.	.	.	.	.	.	.	.
1.22	6500.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6550.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6600.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6650.	.		. EM	.	.	.	.	.	.	.	.	.	.
	6700.	.		. WE	.	.	.	.	.	.	.	.	.	.
	6750.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6800.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6850.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6900.	.		. IE	.	.	.	.	.	.	.	.	.	.
	6950.	.		. IE	.	.	.	.	.	.	.	.	.	.
	7000.	.		. EM	.	.	.	.	.	.	.	.	.	.
	7050.	.		. WE	.	.	.	.	.	.	.	.	.	.
	7100.	.		. IE	.	.	.	.	.	.	.	.	.	.
1.35	7150.	.		. IE	.	.	.	.	.	.	.	.	.	.
	7200.	C		. IE	.	.	.	.	.	.	.	.	.	.
	7250.	C		. IE	.	.	.	.	.	.	.	.	.	.

	7300.	C	.	EM.	.	.	.	.	.	.	.	.
	7350.	C	.	IE.	.	.	.	.	.	.	.	.
	7400.	C	.	IE.	.	.	.	.	.	.	.	.
	7450.	C	.	IE.	.	.	.	.	.	.	.	.
	7500.	C	.	IE.	.	.	.	.	.	.	.	.
	7550.	C	.	IE.	.	.	.	.	.	.	.	.
	7600.	C	.	EM	.	.	.	.	.	.	.	.
	7650.	C	.	IE	.	.	.	.	.	.	.	.
	7700.	C	.	IE	.	.	.	.	.	.	.	.
	7750.	C	.	IE	.	.	.	.	.	.	.	.
	7800.	C	.	IE	.	.	.	.	.	.	.	.
1.48	7850.	C	.	IE	.	.	.	.	.	.	.	.
	7900.	C	.	IE	.	.	.	.	.	.	.	.
	7950.	C	.	WE	.	.	.	.	.	.	.	.
	8000.	C	.	IE	.	.	.	.	.	.	.	.
	8050.	C	.	IE	.	.	.	.	.	.	.	.
	8100.	C	.	IE	.	.	.	.	.	.	.	.
	8150.	C	.	IE	.	.	.	.	.	.	.	.
	8200.	C	.	IE	.	.	.	.	.	.	.	.
	8250.	C	.	.ER	.	.	.	.	.	.	.	.
	8300.	C	.	.IE	.	.	.	.	.	.	.	.
	8350.	C	.	.IE	.	.	.	.	.	.	.	.
1.59	8400.	C	.	.IE	.	.	.	.	.	.	.	.
	8450.	C	.	.IE	.	.	.	.	.	.	.	.
	8500.	C	.	.IE	.	.	.	.	.	.	.	.
	8550.	C	.	. EM	.	.	.	.	.	.	.	.
	8600.	C	.	. WE	.	.	.	.	.	.	.	.
	8650.	C	.	. IE	.	.	.	.	.	.	.	.
	8700.	C	.	. IE	.	.	.	.	.	.	.	.
	8750.	C	.	. IE	.	.	.	.	.	.	.	.
	8800.	C	.	. IE	.	.	.	.	.	.	.	.
	8850.	C	.	. IWE	.	.	.	.	.	.	.	.
	8900.	C	.	. IWE	.	.	.	.	.	.	.	.
	8950.	C	.	. IE	.	.	.	.	.	.	.	.
	9000.	.	C .	. IE	.	.	.	.	.	.	.	.
1.71	9050.	.	.	. IE	.	.	.	.	.	.	.	.
	9100.	.	.	. IE	.	.	.	.	.	.	.	.
	9150.	.	.	. IWE	.	.	.	.	.	.	.	.
	9200.	.	.	. IWE	.	.	.	.	.	.	.	.
	9250.	.	.	. ILE	.	.	.	.	.	.	.	.
	9300.	.	.	. IE	.	.	.	.	.	.	.	.
	9350.	.	.	. IE	.	.	.	.	.	.	.	.
	9400.	.	.	. IWE	.	.	.	.	.	.	.	.
	9450.	.	.	. IWE	.	.	.	.	.	.	.	.
	9500.	.	.	. ILE	.	.	.	.	.	.	.	.
1.80	9550.	.	.	. I E	.	.	.	.	.	.	.	.
	9600.	C	.	. IE	.	.	.	.	.	.	.	.
	9650.	C	.	. IWE	.	.	.	.	.	.	.	.
	9700.	C	.	. IWE	.	.	.	.	.	.	.	.
	9750.	C	.	. ILE	.	.	.	.	.	.	.	.
1.85	9800.	C	.	. IE	.	.	.	.	.	.	.	.
	9850.	C	.	. IE	.	.	.	.	.	.	.	.
	9900.	C	.	. IE	.	.	.	.	.	.	.	.
	9950.	C	.	. IE	.	.	.	.	.	.	.	.
	10000.	C	.	. IWE	.	.	.	.	.	.	.	.
	10050.	C	.	. IWE	.	.	.	.	.	.	.	.
	10100.	C	.	. IE	.	.	.	.	.	.	.	.
	10150.	C	.	. IE	.	.	.	.	.	.	.	.
1.93	10200.	.	.	. IE	.	.	.	.	.	.	.	.
	10250.	C	.	. IE	.	.	.	.	.	.	.	.
	10300.	C	.	. IE	.	.	.	.	.	.	.	.
	10350.	C	.	. IWE.	.	.	.	.	.	.	.	.

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     10400.  C        .        .      IE.        .        .        .        .        .        .        .
     10450.  C        .        .      IE.        .        .        .        .        .        .        .
     10500.  C        .        .      IE.        .        .        .        .        .        .        .
     10550.  C        .        .      IE.        .        .        .        .        .        .        .
     10600.  C        .        .      IE.        .        .        .        .        .        .        .
2.01 10650.  C        .        .      IWE        .        .        .        .        .        .        .
     10700.  C        .        .      I E        .        .        .        .        .        .        .
     10750.  C        .        .       IE        .        .        .        .        .        .        .
     10800.  C        .        .       IE        .        .        .        .        .        .        .
     10850.  C        .        .       IE        .        .        .        .        .        .        .
     10900.  C        .        .       IWE       .        .        .        .        .        .        .
     10950.  C        .        .       IWE       .        .        .        .        .        .        .
2.08 11000.  .        .        .       I.E       .        .        .        .        .        .        .
     11050.  C        .        .        IE       .        .        .        .        .        .        .
     11100.  C        .        .        IEM      .        .        .        .        .        .        .
     11150.  C        .        .        IEM      .        .        .        .        .        .        .
     11200.  C        .        .        IWE      .        .        .        .        .        .        .
     11250.  C        .        .        IWE      .        .        .        .        .        .        .
     11300.  C        .        .        .IEM     .        .        .        .        .        .        .
     11350.  C        .        .        .IEM     .        .        .        .        .        .        .
     11400.  C        .        .        .IEM     .        .        .        .        .        .        .
2.17 11450.  C        .        .        .IERM    .        .        .        .        .        .        .
     11500.  C        .        .        .IWEM    .        .        .        .        .        .        .
     11550.  C        .        .        .ILEM    .        .        .        .        .        .        .
     11600.  C        .        .        . IEM    .        .        .        .        .        .        .
     11650.  C        .        .        . IEM    .        .        .        .        .        .        .
     11700.  C        .        .        . IE M   .        .        .        .        .        .        .
     11750.  C        .        .        . IE M   .        .        .        .        .        .        .
     11800.  C        .        .        . IWEM   .        .        .        .        .        .        .
     11850.  C        .        .        . IWEM   .        .        .        .        .        .        .
     11900.  C        .        .        . I EM   .        .        .        .        .        .        .
2.26 11950.  C        .        .        .  IE M  .        .        .        .        .        .        .
     12000.  C        .        .        .  IE M  .        .        .        .        .        .        .
     12050.  C        .        .        .  IE M  .        .        .        .        .        .        .
     12100.  C        .        .        .  IWEM  .        .        .        .        .        .        .
     12150.  C        .        .        .   IEM  .        .        .        .        .        .        .
     12200.  .        .        .   C    .   IEM  .        .        .        .        .        .        .
2.31 12250.  .        .        .        .   IEM  .        .        .        .        .        .        .
     12300.  C        .        .        .   IEM  .        .        .        .        .        .        .
     12350.  C        .        .        .   IWE  .        .        .        .        .        .        .
     12400.  C        .        .        .    IE  .        .        .        .        .        .        .
     12450.  C        .        .        .    IEM .        .        .        .        .        .        .
2.36 12500.  C        .        .        .    IEM .        .        .        .        .        .        .
     12550.  C        .        .        .    IEM .        .        .        .        .        .        .
     12600.  C        .        .        .     WE .        .        .        .        .        .        .
     12650.  C        .        .        .     IE .        .        .        .        .        .        .
2.40 12700.  .        .        .        .     IEM.        .        .        .        .        .        .
     12750.  C        .        .        .     IEM.        .        .        .        .        .        .
     12800.  C        .        .        .     IEM.        .        .        .        .        .        .
     12850.  C        .        .        .     IWE.        .        .        .        .        .        .
     12900.  C        .        .        .      IE.        .        .        .        .        .        .
     12950.  C        .        .        .      IEM.       .        .        .        .        .        .
2.46 13000.  C        .        .        .      IEM.       .        .        .        .        .        .
     13050.  C        .        .        .      IEM.       .        .        .        .        .        .
     13100.  C        .        .        .      IWE.       .        .        .        .        .        .
     13150.  C        .        .        .      IWE.       .        .        .        .        .        .
     13200.  C        .        .        .       IEM       .        .        .        .        .        .
     13250.  C        .        .        .       IEM       .        .        .        .        .        .
     13300.  C        .        .        .       IEM       .        .        .        .        .        .
     13350.  C        .        .        .       IWE       .        .        .        .        .        .
     13400.  C        .        .        .       IWE       .        .        .        .        .        .
     13450.  C        .        .        .        IEM      .        .        .        .        .        .
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2.55 13500.  C     .     .     .    IEM    .     .     .     .     .     .
     13550.  C     .     .     .    IEM    .     .     .     .     .     .
     13600.  C     .     .     .    IWE    .     .     .     .     .     .
     13650.  C     .     .     .     IE    .     .     .     .     .     .
     13700.  C     .     .     .     IE    .     .     .     .     .     .
     13750.  C     .     .     .    IEM    .     .     .     .     .     .
     13800.  C     .     .     .    IEM    .     .     .     .     .     .
     13850.  C     .     .     .    IWE    .     .     .     .     .     .
     13900.  C     .     .     .    .IE    .     .     .     .     .     .
     13950.  .     . C   .     .    .IE    .     .     .     .     .     .
2.65 14000.  .     .     .     .    .IE    .     .     .     .     .     .
     14050.  .     .     .     .    .IWE   .     .     .     .     .     .
     14100.  .     .     .     .    .IRE   .     .     .     .     .     .
     14150.  .     .     .     .    . IE   .     .     .     .     .     .
     14200.  .     .     .     .    . IE   .     .     .     .     .     .
     14250.  .     .     .     .    . IWE  .     .     .     .     .     .
     14300.  .     .     .     .    . I E  .     .     .     .     .     .
     14350.  .     .     .     .    .  IE  .     .     .     .     .     .
     14400.  .     .     .     .    .  IER .     .     .     .     .     .
     14450.  .     .     .     .    .  IWE .     .     .     .     .     .
2.74 14500.  .     .     .     .    .   IER .     .     .     .     .     .
     14550.  .     .     .     .    .   IER .     .     .     .     .     .
     14600.  .     .     .     .    .   IER .     .     .     .     .     .
     14650.  .     .     .     .    .   IWE .     .     .     .     .     .
     14700.  .     .     .     .    .   IWE .     .     .     .     .     .
     14750.  .     .     .     .    .    IE .     .     .     .     .     .
     14800.  .     .     .     .    .    IEM .     .     .     .     .     .
     14850.  .     .     .     .    .    IEL .     .     .     .     .     .
     14900.  .     .     .     .    .    IWE .     .     .     .     .     .
     14950.  .     .     .     .    .     IE .     .     .     .     .     .
2.84 15000.  .     .     .     .    .     IEM .     .     .     .     .     .
     15050.  .     .     C     .    .     IEL .     .     .     .     .     .
     15100.  C     .     .     .    .     IEL .     .     .     .     .     .
     15150.  C     .     .     .    .     IWEM.     .     .     .     .     .
     15200.  C     .     .     .    .      IEM.     .     .     .     .     .
     15250.  C     .     .     .    .      IEL.     .     .     .     .     .
     15300.  C     .     .     .    .      IELM     .     .     .     .     .
     15350.  C     .     .     .    .      IELM     .     .     .     .     .
     15400.  C     .     .     .    .      IELM     .     .     .     .     .
     15450.  C     .     .     .    .      IWELM    .     .     .     .     .
2.93 15500.  C     .     .     .    .       IELM    .     .     .     .     .
     15550.  C     .     .     .    .       IELM    .     .     .     .     .
     15600.  C     .     .     .    .       IELM    .     .     .     .     .
     15650.  C     .     .     .    .       IWELM   .     .     .     .     .
     15700.  C     .     .     .    .        IELM   .     .     .     .     .
     15750.  C     .     .     .    .        IELM   .     .     .     .     .
     15800.  C     .     .     .    .        IEL M  .     .     .     .     .
     15850.  C     .     .     .    .        IWE M  .     .     .     .     .
     15900.  C     .     .     .    .         IELM  .     .     .     .     .
     15950.  .     .     C     .    .         IEL M .     .     .     .     .
3.03 16000.  .     .     .     .    .         IEL M .     .     .     .     .
     16050.  .     .     .     .    .         .WE M .     .     .     .     .
     16100.  .     .     .     .    .         .IELM .     .     .     .     .
     16150.  .     .     .     .    .         .IELM .     .     .     .     .
     16200.  .     .     .     .    .         . WE M .     .     .     .     .
     16250.  .     .     .     .    .         . IE M .     .     .     .     .
     16300.  .     .     .     .    .         . IERM .     .     .     .     .
     16350.  .     .     .     .    .         .  WEM .     .     .     .     .
     16400.  .     .     .     .    .         .  IEM .     .     .     .     .
     16450.  .     .     .     .    .         .  IER .     .     .     .     .
3.13 16500.  .     .     .     .    .         .   WEM .     .     .     .     .
     16550.  .     .     .     .    .         .   IER .     .     .     .     .
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      16600.  .         .         .         .         .         .  IER   .         .         .         .         .
      16650.  .         .         .         .         .         .  IE    .         .         .         .         .
      16700.  .         .         .         .         .         .  IEM   .         .         .         .         .
      16750.  .         .         .         .         .         .  IWE   .         .         .         .         .
      16800.  .         .         .         .         .         .   IE   .         .         .         .         .
      16850.  .         .         .         .         .         .   IEM  .         .         .         .         .
      16900.  .         .         .         .         .         .   IWE  .         .         .         .         .
      16950.  .         .         .         .         .         .    IE  .         .         .         .         .
 3.22 17000.  .         .         .         .         .         .    IWE.         .         .         .         .
      17050.  .         .         .         .         .         .     IE.         .         .         .         .
      17100.  .         .         .         .         .         .     IEM         .         .         .         .
      17150.  .         .         .         .         .         .     IWEM        .         .         .         .
      17200.  .         .         .         .         .         .     I E M       .         .         .         .
      17250.  .         .         .         .         .         .      IE M       .         .         .         .
      17300.  .         .         .         .         .         .      IWE M      .         .         .         .
      17350.  .         .         .         .         .         .      I.E  M     .         .         .         .
      17400.  .         .         .         .         .         .       IE   M    .         .         .         .
      17450.  .         .         .         .         .         .       IWE  M    .         .         .         .
 3.31 17500.  .         .         .         .         .         .       I E   M   .         .         .         .
      17550.  .         .         .         .         .         .       .IWE   M  .         .         .         .
      17600.  .         .         .         .         .         .       .I E   M  .         .         .         .
      17650.  .         .         .         .         .         .       . IWE  M  .         .         .         .
      17700.  .         .         .         .         .         .       . I E   M .         .         .         .
      17750.  .         .         .         .         .         .       .  IE   M .         .         .         .
      17800.  .         .         .         .         .         .       .  I E   M.         .         .         .
      17850.  .         .         .         .         .         .       .   IE   M.         .         .         .
      17900.  .         .         .         .         .         .       .   IWE  M.         .         .         .
      17950.  .         .         .         .         .         .       .    IE   M         .         .         .
 3.41 18000.  .         .         .         .         .         .       .    IWE  M         .         .         .
      18050.  .         .         .         .         .         .       .     IE  .M        .         .         .
      18100.  .         .         .         .         .         .       .      IE .M        .         .         .
      18150.  .         .         .         .         .         .       .      IWE. M       .         .         .
      18200.  .         .         .         .         .         .       .       IE. M       .         .         .
      18250.  .         .         .         .         .         .       .        WE  M      .         .         .
      18300.  .         .         .         .         .         .       .        IEL M      .         .         .
      18350.  .         .         .         .         .         .       .         IEL M     .         .         .
 3.48 18400.  .         .         .         .         .         .       .         IEL M     .         .         .
      18450.  .         .         .         .         .         .       .         .IEL M    .         .         .
      18500.  .         .         .         .         .         .       .         .IEL M    .         .         .
      18550.  .         .         .         .         .         .       .         . IEL M   .         .         .
      18600.  .         .         .         .         .         .       .         . IEL M   .         .         .
      18650.  .         .         .         .         .         .       .         .  IEL M  .         .         .
      18700.  .         .         .         .         .         .       .         .  IWE M  .         .         .
      18750.  .         .         .         .         .         .       .         .   IEL M .         .         .
 3.56 18800.  .         .         .         .         .         .       .         .   IWE M .         .         .
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T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE:  1B.H2I
T3      WASH "1B" - WATERFALL WASH - TRIBUTARY TO WASH "1"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0    1278.10      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2
0

CCHV= .300 CEHV= .500
*SECNO .000

3470 ENCROACHMENT STATIONS= 9910.0 10518.3 TYPE= 1 TARGET= 608.250

BEGIN WSEL = 1278.10 FROM X1=2.186 ON WASH "1" - BEARDSLEY CANAL WASH. CONFLUENCE WITH BEARDSLEY CANAL WASH.

Q @ X1 = 0.000 TO X1 = 0.680 EQUALS Q AT CP3 (BEFORE DIVERSION)
Q = 2245 CFS

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE CAPACITY IS EXCEEDED.

APPROXIMATELY 490 CFS BREAKS OUT EAST OVER BEARDSLEY CANAL.

PONDING OCCURS IN THE RIGHT OVERBANK UPSTREAM OF THE OLIVE AVE. CULVERTS. THIS WILL PRECLUDE ESTABLISHING A FLOODWAY FOR THE NEXT TWO UPSTREAM CROSS SECTIONS. NO VOLUME LOSS IS REQUIRED BECAUSE OF BREAKOUT TO THE EAST

.000	8.60	1278.10	.00	1278.10	1278.14	.04	.00	.00	1272.00
2245.0	81.5	1732.7	430.8	139.5	915.7	897.9	.0	.0	1272.00
.00	.58	1.89	.48	.070	.035	.070	.000	1269.50	9910.00
.000132	0.	0.	0.	0	0	0	.00	608.25	10518.25

*SECNO .055

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .47

3470 ENCROACHMENT STATIONS= 9755.0 10346.9 TYPE= 1 TARGET= 591.910

CROSS SECTION EXTENDED - FLOW WILL BREAK OUT TO THE EAST BECAUSE CAPACITY IS EXCEEDED.

.055	7.47	1278.17	.00	1278.17	1278.22	.05	.07	.00	1274.30
2245.0	1287.7	785.1	172.2	917.1	308.5	274.4	10.8	3.4	1276.00
.05	1.40	2.54	.63	.070	.035	.070	.000	1270.70	9755.00
.000596	320.	290.	210.	2	0	0	.00	591.90	10346.90

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

CCHV=     .100 CEHV=     .300
*SECNO  .131

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9395.0   10036.6  TYPE=      1  TARGET=      641.560
     .131      4.12   1279.52   1279.52   1279.08   1280.08       .55       .76       .15   1279.60
   2245.0    1232.6    1012.4        .0     364.0     125.4        .0      20.9       8.7 100000.00
     .07      3.39      8.07       .00      .070      .035      .000      .000   1275.40   9395.00
  .018610      480.      400.      340.        20        11         0       .00    475.84  10036.56


*SECNO  .206

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.72


3470 ENCROACHMENT STATIONS=     9550.0   10225.3  TYPE=      1  TARGET=      675.300
     .206      4.38   1283.38       .00   1282.65   1283.59       .20      3.48       .03   1282.00
   2245.0    1183.7     703.0     358.3     564.6     122.4     203.5      26.1      13.0   1282.00
     .10      2.10      5.74      1.76      .070      .035      .070      .000   1279.00   9550.00
  .006319      300.      400.      380.         4         0         0       .00    675.30  10225.30


*SECNO  .282

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69


3470 ENCROACHMENT STATIONS=     9735.0   10103.2  TYPE=      1  TARGET=      368.210
     .282      4.00   1286.60   1286.56   1285.85   1287.25       .65      3.53       .13   1286.00
   2245.0     610.9    1634.1        .0     220.4     221.2        .0      32.2      17.6 100000.00
     .12      2.77      7.39       .00      .070      .035      .000      .000   1282.60   9735.00
  .013266      410.      400.      330.         6        12         0       .00    358.08  10103.21


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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
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*SECNO  .358
3280 CROSS SECTION        .36 EXTENDED        .01 FEET


3470 ENCROACHMENT STATIONS=     9725.0   10030.8  TYPE=      1  TARGET=      305.850
      .358      4.30   1291.50       .00   1291.09   1292.01       .51      4.75       .01   1290.50
    2245.0    1106.8    1138.2        .0     386.1     151.5        .0      37.2      21.1 100000.00
      .14      2.87      7.51       .00      .070      .035      .000      .000   1287.20   9725.00
   .009464      470.      400.      330.         4         0         0       .00    305.85  10030.85


*SECNO  .434
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9725.0   10026.1  TYPE=      1  TARGET=      301.070
      .434      4.89   1295.29   1295.29   1294.95   1296.09       .80      3.81       .09   1294.00
    2245.0     779.3    1465.7        .0     308.9     168.2        .0      41.7      23.7 100000.00
      .16      2.52      8.72       .00      .070      .035      .000      .000   1290.40   9725.00
   .009986      380.      400.      440.         3        11         0       .00    301.07  10026.07


*SECNO  .509

3470 ENCROACHMENT STATIONS=     9770.0   10047.2  TYPE=      1  TARGET=      277.160
      .509      4.22   1299.82       .00   1299.22   1300.57       .75      4.47       .01   1299.20
    2245.0     982.3    1173.5      89.1     304.9     128.9      32.8      45.8      26.3   1298.00
      .17      3.22      9.10      2.72      .070      .035      .070      .000   1295.60   9770.00
   .013133      380.      400.      380.         4         0         0       .00    277.16  10047.16


*SECNO  .585

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     9750.0   10025.2  TYPE=      1  TARGET=      275.180
      .585      4.76   1303.86       .00   1303.03   1304.40       .54      3.81       .02   1304.00
    2245.0    1026.2    1218.8        .0     290.9     166.2        .0      49.8      28.4 100000.00
      .19      3.53      7.33       .00      .070      .035      .000      .000   1299.10   9750.00
   .007829      360.      400.      410.         3         0         0       .00    228.30  10025.18


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .680

3470 ENCROACHMENT STATIONS=     9730.0   10039.8  TYPE=      1  TARGET=      309.780
      .680      4.38   1308.88       .00   1308.79   1309.56       .68      5.12       .04   1308.00
    2245.0    1352.7     877.4      14.8     360.1      92.0       9.5      55.0      31.5   1308.00
      .21      3.76      9.54      1.56      .070      .035      .070      .000   1304.50   9730.00
   .014310      490.      500.      530.         3         0         0       .00    309.78  10039.78
```

*SECNO .773

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9874.4 10076.8 TYPE= 1 TARGET= 202.409

Q @ X1 = 0.773 TO X1 = 2.083 EQUALS Q AT CP2
Q = 2284 CFS

.773	6.43	1313.63	1313.63	1313.56	1314.81	1.19	4.91	.15	1312.00
2284.0	254.4	1964.8	64.9	113.6	209.4	39.6	59.6	34.3	1312.00
.23	2.24	9.38	1.64	.070	.035	.070	.000	1307.20	9874.40
.007435	490.	490.	490.	3	11	0	.00	192.15	10076.81

CCHV= .300 CEHV= .500
*SECNO .847
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9983.5 10122.4 TYPE= 1 TARGET= 138.960

.847	5.09	1317.29	1317.29	1317.31	1318.50	1.21	3.56	.01	1316.00
2284.0	7.0	2231.1	45.9	4.2	250.0	27.1	62.5	35.8	1316.00
.24	1.67	8.93	1.70	.070	.035	.070	.000	1312.20	9983.54
.011440	400.	390.	380.	4	15	0	.00	138.42	10121.96

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .873

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9906.6 10250.0 TYPE= 1 TARGET= 343.370

RIGHT OVERBANK FLOW IS EFFECTIVE FOR THE NEXT 5 UPSTREAM CROSS
SECTIONS DUE TO UPSTREAM INFLOW AT X1=1.352.

.873	1.77	1321.27	1321.27	1321.24	1321.92	.65	1.82	.17	1320.00
2284.0	53.4	1809.7	420.8	28.2	253.0	151.5	63.8	36.7	1319.50
.25	1.89	7.15	2.78	.070	.035	.070	.000	1319.50	9906.63
.014134	250.	135.	200.	20	17	0	.00	343.37	10250.00

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 16.33

3470 ENCROACHMENT STATIONS= 9778.9 10120.8 TYPE= 1 TARGET= 341.939

.945	10.16	1322.16	.00	1322.15	1322.18	.02	.07	.19	1314.00
2284.0	655.7	1524.9	103.5	1117.6	1098.6	224.0	75.9	39.7	1314.00
.34	.59	1.39	.46	.070	.035	.070	.000	1312.00	9778.87
.000053	330.	385.	400.	3	0	0	.00	341.94	10120.81

*SECNO 1.049

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9515.1 10040.0 TYPE= 1 TARGET= 524.860

1.049	3.69	1333.69	1333.69	1332.85	1334.26	.58	.10	.28	1334.00
2284.0	1545.1	738.9	.0	327.8	89.5	.0	92.7	43.7	100000.00
.37	4.71	8.26	.00	.070	.035	.000	.000	1330.00	9515.14
.032126	480.	550.	550.	20	17	0	.00	350.44	10035.29

CCHV= .100 CEHV= .300
*SECNO 1.144

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.81

3470 ENCROACHMENT STATIONS= 9548.4 10090.0 TYPE= 1 TARGET= 541.610

1.144	5.93	1342.23	.00	1341.23	1342.54	.31	8.25	.03	1341.70
2284.0	1435.9	847.6	.5	491.0	135.9	1.0	98.8	48.5	1342.00
.40	2.92	6.24	.49	.070	.035	.070	.000	1336.30	9548.39
.009817	510.	500.	480.	8	0	0	.00	472.85	10038.67

*SECNO 1.223

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0 ENCROACHMENT STATIONS= 9686.9 10090.0 TYPE= 1 TARGET= 403.110

1.223	4.22	1349.02	1349.02	1348.90	1349.81	.80	4.19	.15	1348.00
2284.0	602.4	1647.7	33.9	221.3	199.4	24.7	103.9	52.3	1348.00
.42	2.72	8.26	1.38	.070	.035	.070	.000	1344.80	9686.89
.010331	410.	420.	490.	3	16	0	.00	326.28	10088.40

*SECNO 1.352

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9802.9 10100.0 TYPE= 1 TARGET= 297.090

1.352	3.58	1358.68	1358.68	1358.71	1359.57	.90	9.57	.03	1358.00
2284.0	685.1	1598.9	.0	128.3	190.7	.0	109.7	56.3	100000.00
.44	5.34	8.38	.00	.070	.035	.000	.000	1355.10	9803.23
.021199	640.	680.	560.	19	15	0	.00	214.07	10100.00

*SECNO 1.479

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9542.9 10049.2 TYPE= 1 TARGET= 506.300

1.479	4.61	1370.21	.00	1370.17	1370.54	.33	10.90	.06	1370.00
2284.0	1667.3	616.7	.0	387.0	117.6	.0	115.7	60.8	100000.00
.48	4.31	5.24	.00	.070	.035	.000	.000	1365.60	9542.90
.013826	620.	670.	630.	5	0	0	.00	388.54	10049.20

*SECNO 1.585

3265 DIVIDED FLOW

70 ENCROACHMENT STATIONS= 9748.1 10021.9 TYPE= 1 TARGET= 273.820

1.585	3.60	1378.80	.00	1378.87	1379.39	.58	8.77	.08	1379.00
2284.0	2194.7	89.3	.0	353.6	22.9	.0	120.4	64.2	100000.00
.50	6.21	3.90	.00	.070	.035	.000	.000	1375.20	9749.77
.028200	440.	560.	600.	4	0	0	.00	254.22	10020.22

*SECNO 1.706

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.57

3470 ENCROACHMENT STATIONS= 9961.4 10049.0 TYPE= 1 TARGET= 87.600

1.706	4.98	1388.78	1388.73	1388.71	1390.22	1.45	10.58	.26	1388.00
2284.0	1.9	2277.3	4.8	1.5	235.5	3.8	124.8	66.6	1388.00
.52	1.24	9.67	1.26	.070	.035	.070	.000	1383.80	9961.40
.011404	600.	640.	550.	9	11	0	.00	87.60	10049.00

CCHV= .300 CEHV= .500
*SECNO 1.803

3301 HV CHANGED MORE THAN HVINS

[illegible]5 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9968.2 10021.4 TYPE= 1 TARGET= 53.180

1.803	7.57	1398.57	1398.57	1398.57	1400.67	2.10	7.45	.32	1398.00
2284.0	2.5	2281.5	.0	2.0	196.3	.0	127.3	67.5	100000.00
.53	1.29	11.62	.00	.070	.045	.000	.000	1391.00	9968.24
.019353	500.	510.	500.	3	14	0	.00	53.18	10021.42

*SECNO 1.850

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

3470 ENCROACHMENT STATIONS= 9902.8 10036.8 TYPE= 1 TARGET= 134.090

1.850	5.48	1403.48	.00	1403.48	1404.20	.72	3.12	.41	1400.30
2284.0	852.6	1410.6	20.8	189.0	177.8	12.4	128.9	67.9	1402.00
.54	4.51	7.94	1.68	.070	.045	.070	.000	1398.00	9902.83
.009384	190.	250.	280.	2	0	0	.00	133.97	10036.80

[illegible]ECNO 1.926
[illegible]5 MINIMUM SPECIFIC ENERGY
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV

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   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9943.0   10081.3  TYPE=      1  TARGET=      138.359
    1.926      4.95   1408.95   1408.95   1408.93   1410.13      1.18      4.99       .23   1408.00
   2284.0       5.8    2186.7      91.4       3.4     245.7      36.3     131.8      69.1   1408.00
      .56      1.73      8.90      2.52      .070      .045      .070      .000   1404.00   9942.99
  .017762      400.      400.      240.         3        15         0       .00    138.36  10081.35

*SECNO 2.013

3470 ENCROACHMENT STATIONS=     9978.1   10050.1  TYPE=      1  TARGET=       72.040
    2.013      5.37   1416.37       .00   1416.39   1417.75      1.38      7.52       .10 100000.00
   2284.0        .0    2283.2        .8        .0     241.8        .9     134.6      70.2   1416.00
      .57       .00      9.44       .84      .000      .045      .070      .000   1411.00   9978.15
  .015090      480.      460.      460.         3         0         0       .00     71.77  10049.92

*SECNO 2.083

3470 ENCROACHMENT STATIONS=     9964.2   10020.8  TYPE=      1  TARGET=       56.660
    2.083      6.34   1422.34       .00   1422.33   1424.11      1.77      6.17       .19 100000.00
   2284.0        .0    2284.0        .0        .0     213.9        .0     136.5      70.7 100000.00
      .58       .00     10.68       .00      .000      .045      .000      .000   1416.00   9964.17
  .018523      380.      370.      360.         2         0         0       .00     56.66  10020.83

*SECNO 2.169

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9944.6   10013.6  TYPE=      1  TARGET=       69.040

          Q @ X1 = 2.169 TO X1= 3.555 EQUALS (Q  AT CP2+ Q AT CP1)/2
          Q = (2284 + 1342)/2 = 1813 CFS

    2.169      5.22   1430.72       .00   1430.72   1431.92      1.20      7.64       .17   1430.00
   1813.0       2.5    1810.5        .0       1.9     205.5        .0     138.7      71.4 100000.00
      .59      1.32      8.81       .00      .070      .045      .000      .000   1425.50   9944.62
  .015282      430.      450.      460.         4         0         0       .00     68.96  10013.58

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 2.263

3470 ENCROACHMENT STATIONS=     9950.0   10015.8  TYPE=      1  TARGET=       65.830
    2.263      6.38   1438.38       .00   1438.33   1439.54      1.16      7.60       .01   1438.00
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  1813.0       .0    1813.0       .0       .0     210.1       .0     141.1      72.2 100000.00
     .61       .00      8.63      .00     .000      .045     .000      .000   1432.00   9950.00
 .015139      410.      500.      530.        4         0        0       .00     65.83  10015.83


CNO 2.313

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.9   10135.7  TYPE=      1  TARGET=      159.779
   2.313      5.28   1444.28   1444.28   1444.27   1445.60      1.32      4.38       .08   1444.00
  1813.0        .5    1791.7      20.8        .6     193.1      11.5     142.4      72.6   1444.00
     .62       .79      9.28      1.81      .070      .045      .070      .000   1439.00   9975.90
 .018890      170.      260.      230.         9        15         0       .00     95.36  10135.68


*SECNO 2.360

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9981.6   10218.8  TYPE=      1  TARGET=      237.240
   2.360      3.68   1449.68       .00   1449.68   1450.18       .50      4.34       .25 100000.00
  1813.0        .0     707.5    1105.5        .0     105.1     227.0     143.4      73.2   1450.00
     .63       .00      6.73      4.87      .000      .045      .070      .000   1446.00   9981.62
 .025915      340.      250.       80.         2         0         0       .00    224.99  10218.78


*SECNO 2.403

3265 DIVIDED FLOW

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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9951.4   10109.3  TYPE=      1  TARGET=      157.880
   2.403      4.37   1453.87   1453.79   1453.86   1454.84       .98      4.42       .24 100000.00
  1813.0        .0     1728.8      84.2        .0     213.6      30.7     144.7      73.9   1454.00
     .64       .00      8.09      2.75      .000      .045      .070      .000   1449.50   9951.41
 .018441      250.      230.      150.         5         8         0       .00    120.32  10109.29


CNO 2.456

3470 ENCROACHMENT STATIONS=     9944.5   10017.6  TYPE=      1  TARGET=       73.149
   2.456      5.54   1459.04       .00   1459.05   1460.29      1.26      5.31       .14 100000.00
  1813.0        .0     1813.0        .0        .0     201.5        .0     146.1      74.5 100000.00
     .64       .00      9.00       .00      .000      .045      .000      .000   1453.50   9944.62
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 .019613     260.     280.     250.        3        0        0      .00    72.97  10017.59


*SECNO 2.551

 0 ENCROACHMENT STATIONS=     9968.6   10042.8  TYPE=       1  TARGET=       74.190
    2.551      5.06  1468.86      .00  1468.85  1470.11     1.25     9.81      .00 100000.00
   1813.0        .0   1813.0       .0       .0    202.4       .0    148.5     75.4 100000.00
      .66       .00     8.96      .00     .000     .045     .000     .000  1463.80   9968.60
 .019632      480.     500.     480.        4        0        0      .00    74.19  10042.79


*SECNO 2.646
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.6   10063.7  TYPE=       1  TARGET=       82.140
    2.646      5.11  1479.61  1479.61  1479.58  1480.98     1.36     9.39      .06 100000.00
   1813.0        .0   1764.2     48.8       .0    185.9     19.5    150.8     76.3   1478.00
      .67       .00     9.49     2.50     .000     .045     .070     .000  1474.50   9981.57
 .018004      570.     500.     470.        4        5        0      .00    82.14  10063.71


*SECNO 2.742
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9957.4   10023.1  TYPE=       1  TARGET=       65.660
    2.742      5.57  1492.57  1492.57  1492.58  1494.03     1.47    10.13      .05 100000.00
   1813.0        .0   1813.0       .0       .0    186.4       .0    153.1     77.2 100000.00
      .69       .00     9.72      .00     .000     .045     .000     .000  1487.00   9957.54
 .021965      260.     510.     570.       17        8        0      .00    65.48  10023.02


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 2.837

3470 ENCROACHMENT STATIONS=     9970.7   10070.8  TYPE=       1  TARGET=      100.101
    2.837      4.45  1503.45  1503.31  1503.44  1504.57     1.12    10.50      .03 100000.00
   1813.0        .0   1761.0     52.0       .0    204.5     26.9    155.5     78.1   1503.00
      .71       .00     8.61     1.94     .000     .050     .100     .000  1499.00   9970.68
 .020112      490.     500.     490.        4       15        0      .00   100.10  10070.78


*SECNO 2.934

 0 ENCROACHMENT STATIONS=     9972.4   10039.2  TYPE=       1  TARGET=       66.740
    2.934      5.56  1512.56      .00  1512.57  1513.60     1.04     9.02      .01 100000.00
   1813.0        .0   1813.0       .0       .0    221.9       .0    158.1     79.1 100000.00
      .72       .00     8.17      .00     .000     .050     .000     .000  1507.00   9972.44
 .015717      570.     510.     460.        5        0        0      .00    66.65  10039.09
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*SECNO 3.030
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.3   10081.6  TYPE=      1  TARGET=      95.330
     3.030      3.97   1524.97   1524.97   1524.97   1526.20      1.23     10.04       .06 100000.00
    1813.0        .0    1766.7      46.3        .0     196.0      20.2     160.7      80.0   1524.00
       .74       .00      9.01      2.29      .000      .050      .100      .000   1521.00   9986.29
   .025488      470.      510.      440.        20        19         0       .00     95.33  10081.62


*SECNO 3.125
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9907.2   10025.9  TYPE=      1  TARGET=     118.720
     3.125      4.40   1541.40   1541.40   1541.41   1542.49      1.09     13.77       .01   1541.00
    1813.0     382.0    1431.0        .0      92.0     155.6        .0     163.3      81.2 100000.00
       .76      4.15      9.19       .00      .100      .050      .000      .000   1537.00   9907.20
   .030781      430.      500.      510.        20         8         0       .00    118.64  10025.83


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 3.220

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.2   10030.8  TYPE=      1  TARGET=      51.610
     3.220      5.27   1560.77   1560.77   1560.78   1562.50      1.73     14.16       .19 100000.00
    1813.0        .0    1812.7        .3        .0     171.8        .3     165.7      82.2   1560.00
       .77       .00     10.55      1.01      .000      .050      .100      .000   1555.50   9979.23
   .026025      510.      500.      430.        13        11         0       .00     51.53  10030.77


*SECNO 3.314
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9974.6   10016.9  TYPE=      1  TARGET=      42.341
     3.314      7.60   1578.60   1578.60   1578.62   1580.58      1.98     13.12       .08 100000.00
    1813.0        .0    1813.0        .0        .0     160.6        .0     167.6      82.7 100000.00
       .78       .00     11.29       .00      .000      .050      .000      .000   1571.00   9974.66
   .026462      480.      500.      550.        10        14         0       .00     42.24  10016.89


*SECNO 3.409
7185 MINIMUM SPECIFIC ENERGY
```

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9961.8 10016.4 TYPE= 1 TARGET= 54.620

3.409	5.93	1600.93	1600.93	1600.92	1602.66	1.73	12.89	.03	1600.00
1813.0	2.1	1810.1	.8	1.5	171.5	.6	169.5	83.3	1600.00
.79	1.38	10.55	1.25	.100	.050	.100	.000	1595.00	9961.77
.025136	480.	500.	430.	16	15	0	.00	54.62	10016.39

*SECNO 3.479
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9934.4 10011.7 TYPE= 1 TARGET= 77.260

3.479	3.50	1624.50	1624.50	1624.50	1625.81	1.31	9.75	.04	100000.00
1813.0	.0	1813.0	.0	.0	197.7	.0	171.1	83.8	100000.00
.81	.00	9.17	.00	.000	.050	.000	.000	1621.00	9934.44
.027629	370.	370.	370.	20	14	0	.00	77.23	10011.67

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.555
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.8 10036.3 TYPE= 1 TARGET= 60.570

3.555	6.05	1646.05	1646.05	1646.06	1647.57	1.52	10.73	.07	100000.00
1813.0	.0	1813.0	.0	.0	183.1	.0	172.8	84.5	100000.00
.82	.00	9.90	.00	.000	.050	.000	.000	1640.00	9975.80
.026071	410.	400.	390.	17	14	0	.00	60.51	10036.31

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THIS RUN EXECUTED 31OCT91 08:37:56

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

E- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WASH "18" - WATERFALL WA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	2245.00	1278.10	9910.00	9955.00	10075.00	10518.25	.00	608.25	8.60	1269.50	1.32	1.89
	.000	2245.00	1278.10	9910.00	9955.00	10075.00	10518.25	.00	608.25	8.60	1269.50	1.32	1.89
*	.055	2245.00	1278.17	9755.00	9970.00	10050.00	10346.91	.07	591.91	7.47	1270.70	5.96	2.54
*	.055	2245.00	1278.17	9755.00	9970.00	10050.00	10346.90	.07	591.90	7.47	1270.70	5.96	2.54
*	.131	2245.00	1279.08	9252.31	9960.00	10055.00	10036.56	.91	461.34	3.68	1275.40	224.61	7.80
*	.131	2245.00	1279.52	9395.00	9960.00	10055.00	10036.56	1.36	475.84	4.12	1275.40	186.10	8.07
*	.206	2245.00	1282.65	9260.00	9980.00	10035.00	10225.30	3.58	924.71	3.65	1279.00	54.08	4.08
*	.206	2245.00	1283.38	9550.00	9980.00	10035.00	10225.30	3.86	675.30	4.38	1279.00	63.19	5.74
*	.282	2245.00	1285.85	9486.36	9985.00	10105.00	10103.21	3.20	476.62	3.25	1282.60	135.46	5.37
*	.282	2245.00	1286.60	9735.00	9985.00	10105.00	10103.21	3.21	358.08	4.00	1282.60	132.66	7.39
	.358	2245.00	1291.09	9532.41	9970.00	10035.00	10030.85	5.24	498.45	3.89	1287.20	106.40	7.06
	.358	2245.00	1291.50	9725.00	9970.00	10035.00	10030.85	4.90	305.85	4.30	1287.20	94.64	7.51
	.434	2245.00	1294.95	9635.73	9970.00	10030.00	10026.07	3.86	390.34	4.55	1290.40	100.12	8.09
*	.434	2245.00	1295.29	9725.00	9970.00	10030.00	10026.07	3.79	301.07	4.89	1290.40	99.86	8.72
	.509	2245.00	1299.22	9571.39	9970.00	10020.00	10047.16	4.27	475.77	3.62	1295.60	103.30	6.77
	.509	2245.00	1299.82	9770.00	9970.00	10020.00	10047.16	4.53	277.16	4.22	1295.60	131.33	9.10
	.585	2245.00	1303.03	9694.82	9965.00	10035.00	10025.18	3.81	217.38	3.93	1299.10	107.13	7.27
	.585	2245.00	1303.86	9750.00	9965.00	10035.00	10025.18	4.04	228.30	4.76	1299.10	78.29	7.33
	.680	2245.00	1308.79	9656.42	9985.00	10020.00	10039.78	5.76	383.36	4.29	1304.50	129.26	8.87
	.680	2245.00	1308.88	9730.00	9985.00	10020.00	10039.78	5.02	309.78	4.38	1304.50	143.10	9.54
*	.773	2284.00	1313.56	9874.40	9980.00	10030.00	10076.81	4.77	190.32	6.36	1307.20	79.81	9.62
*	.773	2284.00	1313.63	9874.40	9980.00	10030.00	10076.81	4.75	192.15	6.43	1307.20	74.35	9.38

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.847	2284.00	1317.31	9983.47	9990.00	10080.00	10122.43	3.75	138.96	5.11	1312.20	112.32	8.88
*	.847	2284.00	1317.29	9983.54	9990.00	10080.00	10121.96	3.66	138.42	5.09	1312.20	114.40	8.93
*	.873	2284.00	1321.24	9906.63	9950.00	10100.00	10636.20	3.93	364.88	1.74	1319.50	149.03	7.25
*	.873	2284.00	1321.27	9906.63	9950.00	10100.00	10250.00	3.98	343.37	1.77	1319.50	141.34	7.15
*	.945	2284.00	1322.15	9778.87	9950.00	10065.00	10310.75	.91	374.13	10.15	1312.00	.53	1.39
*	.945	2284.00	1322.16	9778.87	9950.00	10065.00	10120.81	.89	341.94	10.16	1312.00	.53	1.39
*	1.049	2284.00	1332.85	9515.14	9950.00	10040.00	10362.79	10.70	437.86	2.85	1330.00	410.02	6.89
*	1.049	2284.00	1333.69	9515.14	9950.00	10040.00	10035.29	11.52	350.44	3.69	1330.00	321.26	8.26
*	1.144	2284.00	1341.23	9548.39	9955.00	10030.00	10550.96	8.38	493.25	4.93	1336.30	88.23	4.24
	1.144	2284.00	1342.23	9548.39	9955.00	10030.00	10038.67	8.54	472.85	5.93	1336.30	98.17	6.24
*	1.223	2284.00	1348.90	9686.89	9965.00	10040.00	10381.73	7.67	352.20	4.10	1344.80	114.43	8.43
*	1.223	2284.00	1349.02	9686.89	9965.00	10040.00	10088.40	6.79	326.28	4.22	1344.80	103.31	8.26
*	1.352	2284.00	1358.71	9802.91	9980.00	10100.00	10178.03	9.81	294.46	3.61	1355.10	191.22	8.10

*	1.352	2284.00	1358.68	9803.23	9980.00	10100.00	10100.00	9.66	214.07	3.58	1355.10	211.99	8.38
	1.479	2284.00	1370.17	9542.90	9940.00	10070.00	10049.20	11.46	377.09	4.57	1365.60	151.92	5.34
	1.479	2284.00	1370.21	9542.90	9940.00	10070.00	10049.20	11.53	388.54	4.61	1365.60	138.26	5.24
	1.585	2284.00	1378.87	9748.09	9955.00	10050.00	10021.91	8.70	263.32	3.67	1375.20	252.01	3.89
	1.585	2284.00	1378.80	9749.77	9955.00	10050.00	10020.22	8.59	254.22	3.60	1375.20	282.00	3.90
*	1.706	2284.00	1388.71	9961.40	9965.00	10040.00	10049.00	9.85	87.59	4.91	1383.80	121.84	9.87
*	1.706	2284.00	1388.78	9961.40	9965.00	10040.00	10049.00	9.97	87.60	4.98	1383.80	114.04	9.67
*	1.803	2284.00	1398.57	9968.23	9975.00	10025.00	10021.42	9.86	53.19	7.57	1391.00	194.43	11.64
*	1.803	2284.00	1398.57	9968.24	9975.00	10025.00	10021.42	9.80	53.18	7.57	1391.00	193.53	11.62
*	1.850	2284.00	1403.48	9902.77	9975.00	10020.00	10036.84	4.91	134.07	5.48	1398.00	93.51	7.93
*	1.850	2284.00	1403.48	9902.83	9975.00	10020.00	10036.80	4.90	133.97	5.48	1398.00	93.84	7.94
*	1.926	2284.00	1408.93	9943.00	9950.00	10035.00	10081.34	5.45	138.34	4.93	1404.00	181.10	8.96
*	1.926	2284.00	1408.95	9942.99	9950.00	10035.00	10081.35	5.47	138.36	4.95	1404.00	177.62	8.90
	2.013	2284.00	1416.39	9978.08	9970.00	10045.00	10050.13	7.45	72.05	5.39	1411.00	148.99	9.40
	2.013	2284.00	1416.37	9978.15	9970.00	10045.00	10049.92	7.42	71.77	5.37	1411.00	150.90	9.44
	2.083	2284.00	1422.33	9964.17	9960.00	10025.00	10020.83	5.94	56.66	6.33	1416.00	186.40	10.70
	2.083	2284.00	1422.34	9964.17	9960.00	10025.00	10020.83	5.98	56.66	6.34	1416.00	185.23	10.68
	2.169	1813.00	1430.72	9944.57	9950.00	10020.00	10013.62	8.39	69.04	5.22	1425.50	151.89	8.79
	2.169	1813.00	1430.72	9944.62	9950.00	10020.00	10013.58	8.38	68.96	5.22	1425.50	152.82	8.81
	2.263	1813.00	1438.33	9913.34	9950.00	10020.00	10015.83	7.61	102.49	6.33	1432.00	146.94	8.45
	2.263	1813.00	1438.38	9950.00	9950.00	10020.00	10015.83	7.66	65.83	6.38	1432.00	151.39	8.63

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.313	1813.00	1444.27	9975.91	9980.00	10045.00	10135.68	5.94	95.24	5.27	1439.00	190.31	9.30
*	2.313	1813.00	1444.28	9975.90	9980.00	10045.00	10135.68	5.90	95.36	5.28	1439.00	188.90	9.28
	2.360	1813.00	1449.68	9981.58	9980.00	10060.00	10218.82	5.40	225.41	3.68	1446.00	254.70	6.69
	2.360	1813.00	1449.68	9981.62	9980.00	10060.00	10218.78	5.40	224.99	3.68	1446.00	259.15	6.73
	2.403	1813.00	1453.86	9951.41	9950.00	10040.00	10109.29	4.18	120.05	4.36	1449.50	187.68	8.14
	2.403	1813.00	1453.87	9951.41	9950.00	10040.00	10109.29	4.18	120.32	4.37	1449.50	184.41	8.09
	2.456	1813.00	1459.05	9944.47	9935.00	10020.00	10017.63	5.19	73.16	5.55	1453.50	193.29	8.95
	2.456	1813.00	1459.04	9944.62	9935.00	10020.00	10017.59	5.17	72.97	5.54	1453.50	196.13	9.00
	2.551	1813.00	1468.85	9968.61	9960.00	10060.00	10042.78	9.80	74.18	5.05	1463.80	199.03	9.00
	2.551	1813.00	1468.86	9968.60	9960.00	10060.00	10042.79	9.83	74.19	5.06	1463.80	196.32	8.96
*	2.646	1813.00	1479.58	9981.57	9980.00	10040.00	10063.71	10.73	82.14	5.08	1474.50	186.92	9.61
*	2.646	1813.00	1479.61	9981.57	9980.00	10040.00	10063.71	10.75	82.14	5.11	1474.50	180.04	9.49
	2.742	1813.00	1492.58	9957.41	9945.00	10040.00	10023.07	13.00	65.66	5.58	1487.00	216.59	9.67
*	2.742	1813.00	1492.57	9957.54	9945.00	10040.00	10023.02	12.95	65.48	5.57	1487.00	219.65	9.72
	2.837	1813.00	1503.44	9970.68	9960.00	10040.00	10070.78	10.86	100.10	4.44	1499.00	203.98	8.65
	2.837	1813.00	1503.45	9970.68	9960.00	10040.00	10070.78	10.88	100.10	4.45	1499.00	201.12	8.61

	2.934	1813.00	1512.57	9972.42	9965.00	10080.00	10039.16	9.13	66.74	5.57	1507.00	155.27	8.14
	2.934	1813.00	1512.56	9972.44	9965.00	10080.00	10039.09	9.11	66.65	5.56	1507.00	157.17	8.17
*	3.030	1813.00	1524.97	9986.28	9980.00	10060.00	10081.62	12.40	95.34	3.97	1521.00	254.64	9.01
	3.030	1813.00	1524.97	9986.29	9980.00	10060.00	10081.62	12.41	95.33	3.97	1521.00	254.88	9.01
*	3.125	1813.00	1541.41	9907.17	9960.00	10045.00	10025.89	16.44	118.72	4.41	1537.00	302.31	9.14
*	3.125	1813.00	1541.40	9907.20	9960.00	10045.00	10025.83	16.43	118.64	4.40	1537.00	307.81	9.19
*	3.220	1813.00	1560.78	9979.16	9970.00	10030.00	10030.78	19.37	51.62	5.28	1555.50	258.22	10.52
*	3.220	1813.00	1560.77	9979.23	9970.00	10030.00	10030.77	19.37	51.53	5.27	1555.50	260.25	10.55
*	3.314	1813.00	1578.62	9974.60	9970.00	10020.00	10016.93	17.84	42.34	7.62	1571.00	261.31	11.24
*	3.314	1813.00	1578.60	9974.66	9970.00	10020.00	10016.89	17.83	42.24	7.60	1571.00	264.62	11.29
*	3.409	1813.00	1600.92	9961.77	9965.00	10015.00	10016.39	22.30	54.62	5.92	1595.00	252.93	10.57
*	3.409	1813.00	1600.93	9961.77	9965.00	10015.00	10016.39	22.33	54.62	5.93	1595.00	251.36	10.55
*	3.479	1813.00	1624.50	9934.42	9910.00	10030.00	10011.68	23.58	77.26	3.50	1621.00	275.15	9.16
*	3.479	1813.00	1624.50	9934.44	9910.00	10030.00	10011.67	23.57	77.23	3.50	1621.00	276.29	9.17
*	3.555	1813.00	1646.06	9975.77	9960.00	10060.00	10036.34	21.55	60.57	6.06	1640.00	259.36	9.88
*	3.555	1813.00	1646.05	9975.80	9960.00	10060.00	10036.31	21.55	60.51	6.05	1640.00	260.71	9.90

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WASH "1B" - WATERFALL WA

MARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1278.10	.00	1278.14	608.25	81.50	1732.69	430.80	.00	.00	9955.00	10075.00	.00
	.000	1278.10	.00	1278.14	608.25	81.50	1732.69	430.80	608.25	9910.00	9955.00	10075.00	10518.25
*	.055	1278.17	.00	1278.22	591.91	1287.67	785.14	172.20	.00	.00	9970.00	10050.00	.00
*	.055	1278.17	.00	1278.22	591.90	1287.67	785.14	172.20	591.91	9755.00	9970.00	10050.00	10346.91
*	.131	1279.08	.00	1279.56	461.34	1515.04	729.95	.00	.00	.00	9960.00	10055.00	.00
*	.131	1279.52	.44	1280.08	475.84	1232.57	1012.43	.00	641.56	9395.00	9960.00	10055.00	10036.56
*	.206	1282.65	.00	1282.76	924.71	1859.44	335.97	49.59	.00	.00	9980.00	10035.00	.00
*	.206	1283.38	.73	1283.59	675.30	1183.65	703.02	358.33	675.30	9550.00	9980.00	10035.00	10225.30
*	.282	1285.85	.00	1286.11	476.62	1532.67	712.32	.00	.00	.00	9985.00	10105.00	.00
*	.282	1286.60	.75	1287.25	358.08	610.88	1634.12	.00	368.21	9735.00	9985.00	10105.00	10103.21
	.358	1291.09	.00	1291.47	498.45	1357.64	887.36	.00	.00	.00	9970.00	10035.00	.00
	.358	1291.50	.41	1292.01	305.85	1106.78	1138.22	.00	305.85	9725.00	9970.00	10035.00	10030.85
	.434	1294.95	.00	1295.55	390.34	1038.46	1206.54	.00	.00	.00	9970.00	10030.00	.00
*	.434	1295.29	.34	1296.09	301.07	779.34	1465.65	.00	301.07	9725.00	9970.00	10030.00	10026.07
	.509	1299.22	.00	1299.53	475.77	1547.95	671.27	25.77	.00	.00	9970.00	10020.00	.00
	.509	1299.82	.60	1300.57	277.16	982.34	1173.52	89.15	277.16	9770.00	9970.00	10020.00	10047.16
	.585	1303.03	.00	1303.52	217.38	1379.49	865.51	.00	.00	.00	9965.00	10035.00	.00
	.585	1303.86	.83	1304.40	228.30	1026.15	1218.85	.00	275.18	9750.00	9965.00	10035.00	10025.18

	.680	1308.79	.00	1309.33	383.36	1446.32	788.51	10.17	.00	.00	9985.00	10020.00	.00
	.680	1308.88	.09	1309.56	309.78	1352.74	877.42	14.84	309.78	9730.00	9985.00	10020.00	10039.78
*	.773	1313.56	.00	1314.82	190.32	243.50	1981.82	58.67	.00	.00	9980.00	10030.00	.00
	.773	1313.63	.07	1314.81	192.15	254.38	1964.75	64.87	202.41	9874.40	9980.00	10030.00	10076.81
	.847	1317.31	.00	1318.50	138.96	7.12	2229.99	46.89	.00	.00	9990.00	10080.00	.00
*	.847	1317.29	-.02	1318.50	138.42	6.98	2231.09	45.93	138.96	9983.47	9990.00	10080.00	10122.43
*	.873	1321.24	.00	1321.91	364.88	50.58	1801.55	431.86	.00	.00	9950.00	10100.00	.00
*	.873	1321.27	.03	1321.92	343.37	53.42	1809.75	420.83	343.37	9906.63	9950.00	10100.00	10250.00
*	.945	1322.15	.00	1322.17	374.13	653.82	1521.54	108.65	.00	.00	9950.00	10065.00	.00
*	.945	1322.16	.01	1322.18	341.94	655.66	1524.86	103.48	341.94	9778.87	9950.00	10065.00	10120.81
*	1.049	1332.85	.00	1333.35	437.86	563.09	246.45	1474.46	.00	.00	9950.00	10040.00	.00
*	1.049	1333.69	.83	1334.26	350.44	1545.07	738.92	.00	524.86	9515.14	9950.00	10040.00	10040.00
*	1.144	1341.23	.00	1341.43	493.25	392.87	278.00	1613.14	.00	.00	9955.00	10030.00	.00
*	1.144	1342.23	1.00	1342.54	472.85	1435.87	847.65	.48	541.61	9548.39	9955.00	10030.00	10090.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.223	1348.90	.00	1349.70	352.20	547.09	1603.33	133.58	.00	.00	9965.00	10040.00	.00
*	1.223	1349.02	.12	1349.81	326.28	602.39	1647.68	33.93	403.11	9686.89	9965.00	10040.00	10090.00
	1.352	1358.71	.00	1359.53	294.46	666.76	1576.54	40.70	.00	.00	9980.00	10100.00	.00
	1.352	1358.68	-.03	1359.57	214.07	685.07	1598.93	.00	297.09	9802.91	9980.00	10100.00	10100.00
	1.479	1370.17	.00	1370.52	377.09	1683.78	600.22	.00	.00	.00	9940.00	10070.00	.00
	1.479	1370.21	.04	1370.54	388.54	1667.27	616.73	.00	506.30	9542.90	9940.00	10070.00	10049.20
	1.585	1378.87	.00	1379.40	263.32	2179.48	104.52	.00	.00	.00	9955.00	10050.00	.00
	1.585	1378.80	-.07	1379.39	254.22	2194.68	89.32	.00	273.82	9748.09	9955.00	10050.00	10021.91
*	1.706	1388.71	.00	1390.22	87.59	1.52	2278.65	3.83	.00	.00	9965.00	10040.00	.00
*	1.706	1388.78	.06	1390.22	87.60	1.88	2277.34	4.78	87.60	9961.40	9965.00	10040.00	10049.00
*	1.803	1398.57	.00	1400.67	53.19	2.46	2281.54	.00	.00	.00	9975.00	10025.00	.00
*	1.803	1398.57	.01	1400.67	53.18	2.54	2281.46	.00	53.18	9968.24	9975.00	10025.00	10021.42
*	1.850	1403.48	.00	1404.20	134.07	852.72	1410.36	20.92	.00	.00	9975.00	10020.00	.00
*	1.850	1403.48	.00	1404.20	133.97	852.58	1410.61	20.81	134.09	9902.76	9975.00	10020.00	10036.85
*	1.926	1408.93	.00	1410.13	138.34	5.59	2188.86	89.55	.00	.00	9950.00	10035.00	.00
*	1.926	1408.95	.02	1410.13	138.36	5.82	2186.74	91.43	138.36	9942.99	9950.00	10035.00	10081.35
	2.013	1416.39	.00	1417.76	72.05	.00	2283.15	.85	.00	.00	9970.00	10045.00	.00
	2.013	1416.37	-.02	1417.75	71.77	.00	2283.23	.77	72.04	9978.08	9970.00	10045.00	10050.12
	2.083	1422.33	.00	1424.11	56.66	.00	2284.00	.00	.00	.00	9960.00	10025.00	.00
	2.083	1422.34	.01	1424.11	56.66	.00	2284.00	.00	56.66	9964.17	9960.00	10025.00	10020.83
	2.169	1430.72	.00	1431.92	69.04	2.59	1810.41	.00	.00	.00	9950.00	10020.00	.00
	2.169	1430.72	-.01	1431.92	68.96	2.54	1810.46	.00	69.04	9944.58	9950.00	10020.00	10013.62
	2.263	1438.33	.00	1439.40	102.49	66.43	1746.57	.00	.00	.00	9950.00	10020.00	.00
	2.263	1438.38	.05	1439.54	65.83	.00	1813.00	.00	65.83	9950.00	9950.00	10020.00	10015.83

*	2.313	1444.27	.00	1445.60	95.24	.43	1792.12	20.44	.00	.00	9980.00	10045.00	.00
*	2.313	1444.28	.01	1445.60	95.36	.46	1791.74	20.80	159.78	9975.90	9980.00	10045.00	10135.68
	2.360	1449.68	.00	1450.17	225.41	.00	707.65	1105.35	.00	.00	9980.00	10060.00	.00
	2.360	1449.68	.01	1450.18	224.99	.00	707.50	1105.50	237.24	9981.58	9980.00	10060.00	10218.82
	2.403	1453.86	.00	1454.85	120.05	.00	1729.72	83.28	.00	.00	9950.00	10040.00	.00
	2.403	1453.87	.01	1454.84	120.32	.00	1728.77	84.23	157.88	9951.41	9950.00	10040.00	10109.29
	2.456	1459.05	.00	1460.29	73.16	.00	1813.00	.00	.00	.00	9935.00	10020.00	.00
	2.456	1459.04	-.01	1460.29	72.97	.00	1813.00	.00	73.15	9944.48	9935.00	10020.00	10017.63
	2.551	1468.85	.00	1470.11	74.18	.00	1813.00	.00	.00	.00	9960.00	10060.00	.00
	2.551	1468.86	.01	1470.11	74.19	.00	1813.00	.00	74.19	9968.60	9960.00	10060.00	10042.79

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.646	1479.58	.00	1480.98	82.14	.00	1766.58	46.42	.00	.00	9980.00	10040.00	.00
*	2.646	1479.61	.03	1480.98	82.14	.00	1764.19	48.81	82.14	9981.57	9980.00	10040.00	10063.71
*	2.742	1492.58	.00	1494.03	65.66	.00	1813.00	.00	.00	.00	9945.00	10040.00	.00
*	2.742	1492.57	-.02	1494.03	65.48	.00	1813.00	.00	65.66	9957.41	9945.00	10040.00	10023.07
	2.837	1503.44	.00	1504.57	100.10	.00	1761.79	51.20	.00	.00	9960.00	10040.00	.00
	2.837	1503.45	.01	1504.57	100.10	.00	1761.01	51.99	100.10	9970.68	9960.00	10040.00	10070.78
	2.934	1512.57	.00	1513.60	66.74	.00	1813.00	.00	.00	.00	9965.00	10080.00	.00
	2.934	1512.56	-.01	1513.60	66.65	.00	1813.00	.00	66.74	9972.43	9965.00	10080.00	10039.17
*	3.030	1524.97	.00	1526.20	95.34	.00	1766.70	46.30	.00	.00	9980.00	10060.00	.00
*	3.030	1524.97	.00	1526.20	95.33	.00	1766.74	46.26	95.33	9986.29	9980.00	10060.00	10081.62
*	3.125	1541.41	.00	1542.49	118.72	382.68	1430.32	.00	.00	.00	9960.00	10045.00	.00
*	3.125	1541.40	-.01	1542.49	118.64	381.99	1431.01	.00	118.72	9907.17	9960.00	10045.00	10025.89
*	3.220	1560.78	.00	1562.50	51.62	.00	1812.69	.31	.00	.00	9970.00	10030.00	.00
*	3.220	1560.77	-.01	1562.50	51.53	.00	1812.70	.30	51.61	9979.17	9970.00	10030.00	10030.78
*	3.314	1578.62	.00	1580.58	42.34	.00	1813.00	.00	.00	.00	9970.00	10020.00	.00
*	3.314	1578.60	-.02	1580.58	42.24	.00	1813.00	.00	42.34	9974.60	9970.00	10020.00	10016.94
*	3.409	1600.92	.00	1602.66	54.62	2.05	1810.14	.80	.00	.00	9965.00	10015.00	.00
*	3.409	1600.93	.01	1602.66	54.62	2.09	1810.09	.81	54.62	9961.77	9965.00	10015.00	10016.39
*	3.479	1624.50	.00	1625.81	77.26	.00	1813.00	.00	.00	.00	9910.00	10030.00	.00
*	3.479	1624.50	.00	1625.81	77.23	.00	1813.00	.00	77.26	9934.42	9910.00	10030.00	10011.68
*	3.555	1646.06	.00	1647.57	60.57	.00	1813.00	.00	.00	.00	9960.00	10060.00	.00
*	3.555	1646.05	-.01	1647.57	60.51	.00	1813.00	.00	60.57	9975.77	9960.00	10060.00	10036.34

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .055  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .055  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .131  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .131  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .131  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .131  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .131  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .131  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .206  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .206  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .282  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .282  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .434  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .434  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .773  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .773  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .773  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .773  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .847  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .847  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .873  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .873  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .873  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .873  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .873  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .873  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     1.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.223  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.223  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.223  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.223  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     1.223  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.352  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.352  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.352  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      1.352  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      1.706  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.706  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.803  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.803  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.803  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.803  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      1.850  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.850  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.926  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.926  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.926  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.926  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.313  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.313  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.313  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.313  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.646  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.646  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.646  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.646  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=      2.742  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.030  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.030  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.030  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.030  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.030  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.030  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      3.125  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.125  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.125  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.125  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.125  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.125  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      3.220  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.220  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=      3.220  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.220  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.314  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.314  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.314  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.314  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.409  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      3.409  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.409  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      3.479  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.479  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.479  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.479  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.479  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.479  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      3.555  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.555  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.555  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.555  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, WASH "1B" - WATERFALL WA
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	608.	1953.	1.1	1278.1	1278.1	.0
.055	592.	1500.	1.5	1278.2	1278.2	.0
.131	642.	489.	4.6	1279.5	1279.1	.4
.206	675.	890.	2.5	1283.4	1282.7	.7
.282	368.	442.	5.1	1286.5	1285.8	.7
.358	306.	538.	4.2	1291.5	1291.1	.4
.434	301.	477.	4.7	1295.3	1295.0	.3
.509	277.	467.	4.8	1299.8	1299.2	.6
.585	275.	457.	4.9	1303.8	1303.0	.8
.680	310.	462.	4.9	1308.9	1308.8	.1
.773	202.	363.	6.3	1313.7	1313.6	.1
.847	138.	281.	8.1	1317.3	1317.3	.0
.873	343.	433.	5.3	1321.2	1321.2	.0
.945	342.	2440.	.9	1322.2	1322.2	.0
1.049	520.	417.	5.5	1333.7	1332.9	.8
1.144	490.	628.	3.6	1342.2	1341.2	1.0
1.223	402.	445.	5.1	1349.0	1348.9	.1
1.352	297.	319.	7.2	1358.7	1358.7	.0
1.479	506.	505.	4.5	1370.2	1370.2	.0
1.585	270.	377.	6.1	1378.8	1378.9	-.1
1.706	88.	241.	9.5	1388.8	1388.7	.1
1.803	53.	198.	11.5	1398.6	1398.6	.0
1.850	134.	379.	6.0	1403.5	1403.5	.0
1.926	138.	285.	8.0	1408.9	1408.9	.0
2.013	72.	243.	9.4	1416.4	1416.4	.0
2.083	57.	214.	10.7	1422.3	1422.3	.0
2.169	69.	207.	8.7	1430.7	1430.7	.0
2.263	66.	210.	8.6	1438.4	1438.3	.1
2.313	160.	205.	8.8	1444.3	1444.3	.0
2.360	237.	332.	5.5	1449.7	1449.7	.0
2.403	158.	244.	7.4	1453.9	1453.9	.0
2.456	73.	202.	9.0	1459.1	1459.1	.0

2.551	74.	202.	9.0	1468.9	1468.9	.0
2.646	82.	205.	8.8	1479.6	1479.6	.0
2.742	65.	186.	9.7	1492.6	1492.6	.0
2.837	100.	231.	7.8	1503.4	1503.4	.0
2.934	67.	222.	8.2	1512.6	1512.6	.0
3.030	95.	216.	8.4	1525.0	1525.0	.0
3.125	119.	248.	7.3	1541.4	1541.4	.0
3.220	52.	172.	10.5	1560.8	1560.8	.0
3.314	42.	161.	11.3	1578.6	1578.6	.0
3.409	55.	174.	10.4	1600.9	1600.9	.0

1

FLOODWAY DATA, WASH "1B" - WATERFALL WA
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.479	77.	198.	9.2	1624.5	1624.5	.0
3.555	61.	183.	9.9	1646.1	1646.1	.0

```
1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    31OCT91    TIME   09:56:59 *
*****************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X    X             X    X
X     X  X        X                       X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X    X             X
X     X  XXXXXXX   XXXXX              XXXXXXX
```

1

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THIS RUN EXECUTED 31OCT91 09:57:00

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****************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
****************************************
```

2.H2O - WHITE TANKS #3 WAS, Latest Version w/ Floodway

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN      FILE:  2.H2I
T3      WASH "2" -  WHITE TANKS #3 WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0    0.0111       0        0        0      1192       0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43        1       53       21       22       54       51        4        8
     42        5       26        0      110        0      200

NC    .035      .07     .035       .3       .5
QT       2     1743     1743
                         9.1                                                   9937.91   10034.78

          Q @ X1 = 0.000 TO X1 = 1.085 EQUALS Q AT CP13
          Q = 1743 CFS

          MATCH FLOODPLAIN INTO 100-YEAR PONDING WATER SURFACE ELEVATION BEHIND
          WHITE TANKS STRUCTURE #3.
```

X1	0.00	20	9970	10040						
GR	1201.1	9925	1200	9930	1190	9940	1189.2	9950	1192.5	9960
GR	1190.6	9970	1190	9985	1187	10000	1190	10015	1192.9	10040
	1194	10050	1196	10075	1194	10105	1193	10200	1194	10335
GR	1194	10370	1196	10445	1196	10550	1198	10610	1200	11000
ET			9.1						9949.04	10029.86
X1	0.082	9	9975	10025	435	435	435			
GR	1205	9930	1200	9945	1192.5	9955	1196.3	9975	1192.4	10000
GR	1194	10015	1196	10025	1198	10035	1199.1	10040		
NC	.035	.07	.035	.1	.3					
ET			9.1						9944	10050

1

X1	0.162	11	9980	10020	420	420	420			
GR	1209.3	9930	1208	9940	1200	9945	1197.6	9950	1200	9960
GR	1200	9980	1198	9995	1197.5	10000	1198	10010	1200	10020
GR	1201.7	10050								
ET			9.1						9932.85	10037.01
X1	0.244	12	9970	10020	435	435	435			
GR	1210	9930	1200	9935	1198.9	9940	1200	9945	1201	9970
GR	1200	9990	1198.8	10000	1200	10010	1204	10020	1206	10130
GR	1208	10355	1208.5	10430						
ET			9.1						9955.31	10085.18
	.338	12	9965	10020	500	495	495			
GR	1210	9945	1201.1	9965	1200	10000	1202.3	10020	1201.7	10045
GR	1202	10055	1204	10075	1206	10090	1208	10155	1210	10375
GR	1212	10425	1214	10535						
ET			9.1						9926.38	10045.34
X1	0.392	9	9935	10015	285	290	285			
GR	1210	9910	1204	9935	1202	9985	1201.6	10000	1204.5	10015
GR	1203.5	10035	1206	10045	1208	10055	1209.2	10080		
NC	.07	.07	.035	.3	.5					
ET			9.1						9849.70	10004.63
X1	0.423	9	9845	10010	170	160	165			
GR	1219.4	9830	1210	9845	1206.6	9860	1208.9	9875	1206	9910
GR	1208	9985	1208	10000	1210	10010	1211.2	10040		
ET			9.1						9880.43	10142.46
X1	0.437	5	9960	10060	70	70	70			
GR	1214.3	9825	1212	9960	1210.5	10000	1212	10060	1214.3	10200
ET			9.1						9894.7	10193.93
X1	0.452	11	9975	10035	80	80	80			
GR	1216	9800	1214	9910	1212	9960	1210	9975	1200	9990
GR	1200	10000	1200	10010	1210	10035	1212	10110	1214	10180
GR	1214.3	10195								
			9.1						9940	10131.70
X1	0.484	13	9950	10050	225	125	170			
GR	1216	9820	1214	9900	1212	9940	1210	9950	1200	9965
GR	1194	9975	1193	10000	1194	10025	1200	10040	1210	10050
GR	1212	10065	1214	10110	1214.5	10140				

```
ET                    9.1                                                   9860   10061.88
X1    0.551     13    9990   10010    200    380    355
GR     1216   9720    1214    9760   1212   9790   1210   9860    1204    9885
GR     1202   9990  1200.5   10000   1202  10010   1210  10030    1212   10045
       1214  10060    1216   10070   1218  10120
```



```
ET                    9.1                                                 9927.55   10106.53
X1    0.630     18    9980   10030    360    410    415
GR     1220   9600    1218    9860   1216   9915   1214   9930    1212    9945
GR   1210.3   9955  1210.5    9970   1210   9980   1208   9990  1206.6   10000
GR     1208  10010    1210   10030   1212  10075   1214  10100    1216   10140
GR     1218  10160    1220   10220   1222  10290

NC     .07    .07    .035      .1     .3
ET                    9.1                                                 9929.59   10054.68
X1    0.703      8    9985   10015    325    390    385
GR     1218   9900    1216    9925   1214   9935   1212   9985    1210   10000
GR     1212  10015    1214   10035  1215.1  10055

ET                    9.1                                                 9941.04   10050
X1    0.799     12    9970   10015    585    410    510
GR   1228.3   9860    1228    9880   1226   9905   1224   9915    1222    9925
GR     1220   9940    1218    9970   1216  10000   1217  10015  1218.4   10050
GR   1217.3  10075  1220.3   10110

ET                    9.1                                                 9938.81   10070
       0.896     18    9980   10020    430    540    510
GR   1231.2   9735    1230    9820  1231.5   9875   1230   9895    1228    9910
GR     1226   9925    1224    9980  1222.5  10000  1223.5  10020  1222.6   10040
GR   1224.2  10070  1222.6   10100   1224  10115   1230  10130    1232   10145
GR     1234  10155    1236   10180   1238  10245

ET                    9.1                                                    9970   10084.23
X1    0.991     22    9970   10070    440    465    500
GR   1238.7   9665    1238    9730  1237.6   9830   1236   9890    1234    9915
GR     1232   9925    1230    9935   1228   9945  1230.5   9970  1228.3   10000
GR   1230.2  10025  1227.3   10050  1228.4  10060   1230  10070    1232   10095
GR     1234  10110    1236   10120   1238  10135   1240  10145    1238   10215
GR   1239.7  10265    1238   10360

ET                    9.1                                                 9968.81   10150
X1    1.085     17    9990   10020    445    475    500
GR   1244.3   9805    1244    9895   1242   9940   1240   9955    1238    9970
GR     1236   9990  1235.3   10000   1236  10010  1236.3  10020  1236.1   10035
GR     1238  10055  1238.5   10090   1238  10125   1236  10160    1235   10190
GR     1236  10200    1240   10215

QT        2   1528    1528
ET                    9.1                                                 9975.65   10069.35

        Q @ X1 = 1.179 TO X1 = 1.752 EQUALS (Q AT CP13 + Q AT SUB 11)/2
        Q = (1743 + 1313)/2 = 1528 CFS

X1    1.179     17    9980   10025    515    445    495
GR   1251.7   9830    1250    9895   1248   9955   1246   9970    1244    9980
GR     1242   9990  1240.7   10000   1242  10015  1242.6  10025  1242.2   10045
GR     1244  10065    1246   10075   1248  10090   1250  10125    1251   10175
GR     1250  10260    1252   10330
```

ET			9.1						9984.66	10130.67
X1	1.272	21	9985	10025	450	495	490			
GR	1256.4	9750	1256	9800	1254.4	9865	1254.7	9920	1254	9975
GR	1250	9985	1246	9995	1244.4	10000	1246	10015	1248	10025
GR	1250	10095	1248.7	10115	1250	10130	1252	10140	1254	10145
GR	1256	10155	1256.6	10165	1256	10175	1255.4	10210	1256	10230
GR	1258	10275								
ET			9.1						9942.93	10017.41
X1	1.369	14	9955	10020	490	425	515			
GR	1261.3	9750	1260	9845	1258	9865	1256	9880	1255.2	9910
GR	1256	9930	1254	9955	1252	9980	1250.9	10000	1252	10010
GR	1256	10020	1258	10075	1260	10140	1262	10165		
ET			9.1						9962.01	10043.79
X1	1.465	17	9985	10030	515	430	505			
GR	1264.8	9930	1264	9945	1262	9960	1260	9985	1258	9995
GR	1257.7	10000	1258	10015	1260	10030	1262	10045	1264	10070
GR	1265.4	10095	1264	10125	1266	10150	1268	10165	1268.6	10180
GR	1268	10195	1266	10250						
ET			9.1						9929.38	10035.62
X1	1.560	12	9980	10015	515	445	500			
GR	1274	9885	1272	9905	1270	9920	1268	9935	1266	9980
GR	1264.4	10000	1266	10015	1268	10030	1270	10045	1272	10060
	1274	10100	1274.3	10115						
ET			9.1						9966.26	10040.99
X1	1.657	11	9975	10020	440	490	515			
GR	1280.6	9890	1280	9915	1278	9930	1276	9950	1274	9965
GR	1272	9975	1270	9990	1269.3	10000	1270	10010	1272	10020
GR	1274.5	10050								
ET			9.1						9920	10041.99
X1	1.752	15	9990	10035	480	470	500			
GR	1286.9	9710	1286	9750	1284	9760	1282	9770	1279.6	9790
GR	1280.7	9920	1280	9955	1280.5	9970	1280	9990	1278	10000
GR	1278	10020	1280	10035	1282	10045	1286	10060	1288	10075
QT	2	1313	1313							
ET			9.1						9946.51	10055.46

Q @ X1 = 1.837 TO X1 = 2.487 EQUALS Q AT SUB 11
Q = 1313 CFS

X1	1.837	8	9970	10015	400	505	450			
GR	1290.5	9945	1288	9970	1287	10000	1288	10015	1290	10045
GR	1292	10105	1294	10315	1296	10420				

ET			9.1						9933.60	10074.44
X1	1.862	7	9990	10050	50	195	130			
GR	1300	9885	1292	9930	1290	9990	1288.3	10000	1290	10050
GR	1300	10180	1305	10240						

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ET                    9.1                                                  9973.58   10084.82
X1    1.928      13   9980   10030     420     280     350
GR   1300.8    9840   1300    9930    1298    9950    1296    9960    1294    9980
     1292      9990   1291.2 10000    1292   10030    1294   10080    1296   10095
GR   1298     10110   1300   10125    1310   10150

ET                    9.1                                                  9956.63   10045.58
X1    2.021      13   9965   10040     435     515     490
GR   1309      9870   1308    9915    1306    9930    1304    9940    1302    9950
GR   1300      9965   1298   10000    1300   10040    1302   10050    1304   10060
GR   1306     10090   1308   10140  1309.3   10210

ET                    9.1                                                  9963.45   10011.16
X1    2.134      16   9985   10005     630     510     595
GR   1326      9650   1324    9755    1322    9835    1320    9865    1318    9905
GR   1316      9920   1314    9950    1312    9955    1310    9965    1308    9975
GR   1306      9985   1305.2 10000    1306   10005    1310   10010    1318   10040
GR   1320.2    10070

ET                    9.1                                                  9981.74   10031.52
X1    2.208      15   9990   10025     385     400     395
GR   1328.7    9880   1328    9900    1326    9915    1324    9930    1322    9935
GR   1324.7    9955   1320    9975    1314    9990  1312.7   10000    1314   10015
GR   1316     10025   1318   10035    1320   10050    1326   10070  1327.8   10090

NC     .07      .07    .045     .3      .5
ET                    9.1                                                  9932.46   10016.43
X1    2.304      16   9980   10015     470     480     505
GR   1332      9885   1330    9900    1328    9915    1326    9925    1324    9940
     1322      9960   1323    9980    1322    9990  1321.5   10000    1322   10010
GR   1323     10015   1330   10020    1332   10030  1333.8   10060  1332.5   10120
GR   1334     10155

ET                    9.1                                                  9978.55   10087.05
X1    2.360      13   9985   10030     250     350     295
GR   1338.4    9940   1336    9960    1330    9985    1328    9995  1326.8   10000
GR   1328     10010   1330   10030  1331.4   10050  1329.7   10075    1332   10090
GR   1334     10100   1336   10110    1338   10130

ET                    9.1                                                  9942.91   10040.22
X1    2.394      16   9985   10015     265     100     180
GR   1348      9790   1346    9865    1344    9910    1340    9925    1336    9935
GR   1334      9945   1332    9955    1332    9985  1330.2   10000    1332   10015
GR   1334     10035   1336   10060    1338   10070    1340   10080    1340   10120
GR   1340.7    10145
1
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ET                    9.1                                                  9962.20   10020.93
X1    2.487      13   9975   10015     460     500     490
GR   1350      9830   1346    9865    1344    9885  1343.6    9900  1344.9    9930
GR   1344      9950   1342    9965    1340    9975  1338.3   10000    1340   10015
     1344     10025   1348   10040  1350.2   10060

QT      2       656    656
ET                    9.1                                                  9975.44   10019.78
```

Q @ X1 = 2.581 TO X1 = 3.247 EQUALS Q AT SUB 11 / 2
Q = 1313/2 = 656 CFS

X1	2.581	14	9975	10020	450	520	500			
GR	1362	9855	1360	9925	1350	9975	1348	9985	1346	9995
GR	1345.3	10000	1346	10010	1350	10020	1352	10030	1354	10070
	1356	10085	1358	10100	1360	10120	1361.2	10140		
ET			9.1						9982.69	10027.31
X1	2.676	15	9990	10020	540	375	500			
GR	1368.5	9900	1368	9905	1362	9975	1360	9990	1358	9995
GR	1356.8	10000	1358	10005	1360	10020	1362	10035	1363.6	10050
GR	1362.3	10075	1364	10095	1364.5	10105	1366	10140	1368	10160
ET			9.1						9967.47	10020.84
X1	2.766	16	9990	10010	500	415	475			
GR	1380	9800	1378	9820	1376	9845	1374	9860	1374.8	9875
GR	1373.5	9890	1376	9920	1374	9945	1372	9960	1370	9970
GR	1368	9990	1367.5	10000	1368	10010	1370	10020	1376	10030
GR	1378	10055								
ET			9.1						9982.04	10032.40
X1	2.869	12	9985	10030	410	540	545			
GR	1388.6	9965	1386	9985	1384	9995	1383	10000	1384	10010
GR	1386	10030	1387.6	10040	1387.2	10055	1388	10065	1390	10080
GR	1392	10140	1392.7	10180						
ET			9.1						9973.96	10022.36
X1	2.963	12	9985	10015	490	465	495			
GR	1403.2	9925	1402	9940	1400	9970	1398	9985	1396	10000
GR	1398	10015	1400	10025	1402	10055	1400.8	10095	1402	10120
GR	1404	10140	1406	10195						
ET			9.1						9978.47	10021.02
X1	3.071	12	9980	10020	610	505	570			
GR	1422	9860	1420	9910	1418	9945	1416	9965	1414	9980
GR	1412	9990	1410.8	10000	1412	10010	1414	10020	1416	10030
GR	1418	10070	1420	10110						

1

ET			9.1						9973.35	10021
X1	3.152	13	9975	10020	450	410	430			
GR	1436	9800	1434	9835	1432	9860	1430	9920	1428	9960
GR	1426	9975	1424	9990	1423.1	10000	1424	10010	1426	10020
GR	1428	10030	1430	10060	1430.2	10085				
ET			9.1						9934.21	10042.71
X1	3.247	10	9990	10015	400	550	500			
GR	1444.8	9925	1444	9940	1443.8	9955	1444	9970	1442	9990
GR	1441.6	10000	1442	10015	1444	10035	1446	10085	1448	10200

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .300 CEHV= .500
*SECNO .000

5 DIVIDED FLOW

Q @ X1 = 0.000 TO X1 = 1.085 EQUALS Q AT CP13
Q = 1743 CFS

MATCH FLOODPLAIN INTO 100-YEAR PONDING WATER SURFACE ELEVATION BEHIND
WHITE TANKS STRUCTURE #3.

.000	5.29	1192.29	.00	1192.00	1193.30	1.01	.00	.00	1190.60
1743.0	356.9	1386.1	.0	51.7	166.5	.0	.0	.0	1192.90
.00	6.91	8.33	.00	.035	.035	.000	.000	1187.00	9937.71
.011092	0.	0.	0.	0	0	5	.00	95.38	10034.78

*SECNO .082

.082	4.57	1196.97	.00	.00	1198.08	1.11	4.73	.05	1196.30
1743.0	504.1	1235.7	3.2	64.8	141.8	2.4	2.1	.9	1196.00
.01	7.78	8.71	1.34	.035	.035	.070	.000	1192.40	9949.04
.010647	435.	435.	435.	3	0	0	.00	80.82	10029.86

CCHV= .100 CEHV= .300
*SECNO .162
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.162	4.10	1201.60	1201.60	.00	1202.76	1.16	4.53	.02	1200.00
1743.0	554.7	1145.1	43.2	74.8	122.8	22.6	4.2	1.8	1200.00
.03	7.41	9.33	1.91	.035	.035	.070	.000	1197.50	9944.00
.010951	420.	420.	420.	2	12	0	.00	104.25	10048.25

*SECNO .244

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.20

.244	5.51	1204.31	.00	.00	1204.70	.39	1.87	.08	1201.00
1743.0	756.4	985.8	.8	148.5	197.5	2.6	7.0	2.8	1204.00
.05	5.09	4.99	.29	.035	.035	.070	.000	1198.80	9932.85
.002270	435.	435.	435.	4	0	0	.00	104.17	10037.01

*SECNO .338

.338	5.41	1205.41	.00	.00	1205.75	.34	1.05	.01	1201.10
1743.0	61.8	1334.5	346.8	20.9	255.5	176.7	11.6	4.1	1202.30

```
      .08      2.95      5.22      1.96      .035      .035      .070      .000   1200.00   9955.31
   .001960     500.      495.      495.         3         0         0       .00    130.29  10085.60


CNO  .392

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .68

     .392      4.47   1206.07       .00       .00   1206.61       .54       .79       .06   1204.00
   1743.0      24.8    1603.7     114.5       8.9     262.8      54.6      14.2       5.0   1204.50
      .10      2.78      6.10      2.10      .035      .035      .070      .000   1201.60   9926.38
   .004255     285.      285.      290.         2         0         0       .00    118.96  10045.34


CCHV=     .300 CEHV=     .500
*SECNO  .423
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .423      2.94   1208.94   1208.94       .00   1209.73       .80      1.21       .13   1210.00
   1743.0        .0    1743.0        .0        .0     243.2        .0      15.2       5.5   1210.00
      .10       .00      7.17       .00      .000      .035      .000      .000   1206.00   9849.70
   .015725     170.      165.      160.        20        14         0       .00    154.98  10004.68


*SECNO  .437
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .437      2.86   1213.36   1213.36       .00   1214.11       .76       .92       .01   1212.00
   1743.0      93.4    1552.7      96.9      53.9     210.6      55.9      15.7       5.8   1212.00
      .11      1.73      7.37      1.73      .070      .035      .070      .000   1210.50   9880.43
   .011185      70.       70.       70.        20         8         0       .00    262.08  10142.51


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   31OCT91      09:57:00                                                                          PAGE   10


    SECNO     DEPTH     CWSEL     CRIWS    WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB     ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB     XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR    ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .452

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  8.98

     .452     14.28   1214.28       .00       .00   1214.35       .08       .04       .20   1210.00
   1743.0      45.9    1535.0     162.1     115.2     656.7     337.3      17.0       6.3   1210.00
      .12       .40      2.34       .48      .070      .035      .070      .000   1200.00   9894.70
   .000139      80.       80.       80.         2         0         0       .00    299.21  10193.91


*SECNO  .484

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.11
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      .484     21.36   1214.36       .00       .00   1214.38       .02       .01       .02   1210.00
    1743.0      11.4    1716.3      15.2      90.7    1711.2     115.6      22.8       7.4   1210.00
       .16       .13      1.00       .13      .070      .035      .070      .000   1193.00   9885.53
   .000014      225.      170.      125.         2         0         0       .00    246.17  10131.70


*SECNO  .551

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

      .551     13.87   1214.37       .00       .00   1214.39       .02       .01       .00   1202.00
    1743.0    1157.6     459.2     126.1    1658.1     262.5     239.2      36.4       9.1   1202.00
       .25       .70      1.75       .53      .070      .035      .070      .000   1200.50   9752.47
   .000056      200.      355.      380.         1         0         0       .00    309.42  10061.88


*SECNO  .630

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .24

      .630      7.73   1214.33       .00       .00   1214.54       .21       .06       .10   1210.00
    1743.0     222.1    1278.7     242.2     151.7     300.3     183.9      48.6      11.3   1210.00
       .28      1.46      4.26      1.32      .070      .035      .070      .000   1206.60   9927.55
   .000933      360.      415.      410.         2         0         0       .00    178.97  10106.52


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    SECNO     DEPTH     CWSEL     CRIWS    WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB     ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB     XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR    ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO  .703

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .703      5.08   1215.08   1215.08       .00   1216.28      1.20       .80       .30   1212.00
    1743.0     344.5    1248.5     150.0     107.0     122.5      52.3      52.5      12.5   1212.00
       .30      3.22     10.19      2.87      .070      .035      .070      .000   1210.00   9929.59
   .008939      325.      385.      390.        20        14         0       .00    125.09  10054.68


*SECNO  .799
      .799      3.93   1219.93       .00       .00   1220.70       .77      4.38       .04   1218.00
    1743.0      53.7    1164.9     524.4      28.0     139.4     170.5      55.9      14.2   1217.00
       .32      1.92      8.36      3.08      .070      .035      .070      .000   1216.00   9941.04
   .008607      585.      510.      410.         3         0         0       .00    164.65  10105.69


*SECNO  .896
      .896      3.00   1225.50       .00       .00   1226.18       .68      5.47       .01   1224.00
    1743.0      62.0     821.7     859.4      30.9      94.9     210.6      60.0      16.2   1223.50
       .34      2.01      8.66      4.08      .070      .035      .070      .000   1222.50   9938.81
   .013170      430.      510.      540.         3         0         0       .00    179.94  10118.75
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*SECNO .991

.991	3.84	1231.14	.00	.00	1231.83	.69	5.64	.00	1230.50
1743.0	235.3	1495.8	12.0	71.8	211.3	8.1	63.4	18.0	1230.00
.36	3.28	7.08	1.48	.070	.035	.070	.000	1227.30	9929.31
.010315	440.	500.	465.	5	0	0	.00	154.92	10084.23

*SECNO 1.085

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.085	3.16	1238.16	1238.16	.00	1239.01	.85	6.63	.05	1236.00
1743.0	73.9	718.4	950.6	23.3	70.3	208.9	66.7	19.9	1236.30
.38	3.18	10.23	4.55	.070	.035	.070	.000	1235.00	9968.81
.018699	445.	500.	475.	5	15	0	.00	191.47	10208.09

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.179

Q @ X1 = 1.179 TO X1 = 1.752 EQUALS (Q AT CP13 + Q AT SUB 11)/2
Q = (1743 + 1313)/2 = 1528 CFS

1.179	4.16	1244.86	.00	.00	1245.93	1.06	6.86	.06	1244.00
1528.0	2.4	1206.7	318.9	1.9	132.3	86.6	69.5	21.4	1242.60
.40	1.26	9.12	3.68	.070	.035	.070	.000	1240.70	9975.66
.011063	515.	495.	445.	5	0	0	.00	93.69	10069.34

*SECNO 1.272
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.272	5.73	1250.13	1250.13	.00	1251.18	1.04	4.44	.00	1250.00
1528.0	.0	1325.9	202.1	.0	151.4	106.9	72.2	22.8	1248.00
.41	.02	8.76	1.89	.070	.035	.070	.000	1244.40	9984.66
.007530	450.	490.	495.	3	11	0	.00	146.01	10130.67

*SECNO 1.369
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.369	4.07	1254.97	1254.97	.00	1256.27	1.30	4.93	.08	1254.00
1528.0	8.6	1519.4	.0	5.8	165.6	.0	74.6	24.0	1256.00
.43	1.48	9.18	.00	.070	.035	.000	.000	1250.90	9942.93
.012920	490.	515.	425.	3	19	0	.00	74.48	10017.41

*SECNO 1.465
7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.465	4.14	1261.84	1261.84	.00	1263.23	1.39	5.86	.03	1260.00
1528.0	43.3	1458.9	25.9	21.1	150.7	12.7	76.7	24.9	1260.00
.44	2.05	9.68	2.04	.070	.035	.070	.000	1257.70	9962.03
.010481	515.	505.	430.	3	5	0	.00	81.75	10043.78

*SECNO 1.560
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.560	4.35	1268.75	1268.75	.00	1269.93	1.18	5.04	.02	1266.00
1528.0	241.1	1205.5	81.5	80.8	124.2	28.3	79.1	25.9	1266.00
.46	2.98	9.70	2.87	.070	.035	.070	.000	1264.40	9929.38
.009705	515.	500.	445.	3	8	0	.00	106.23	10035.62

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.657

1.657	4.45	1273.75	1273.73	.00	1275.19	1.44	5.18	.08	1272.00
1528.0	15.2	1476.0	36.8	7.6	150.7	18.3	81.4	26.9	1272.00
.48	1.99	9.79	2.01	.070	.035	.070	.000	1269.30	9966.26
.010741	440.	515.	490.	5	8	0	.00	74.73	10040.99

*SECNO 1.752

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.752	3.40	1281.40	1281.40	.00	1282.01	.61	4.62	.08	1280.00
1528.0	541.7	979.1	7.3	252.7	127.9	4.9	84.6	28.8	1280.00
.50	2.14	7.65	1.49	.070	.035	.070	.000	1278.00	9775.01
.008143	480.	500.	470.	11	14	0	.00	266.98	10041.99

*SECNO 1.837
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 1.837 TO X1 = 2.487 EQUALS Q AT SUB 11
Q = 1313 CFS

1.837	3.35	1290.35	1290.35	.00	1291.42	1.07	4.08	.14	1288.00
1313.0	67.5	1135.4	110.1	27.6	128.2	42.3	87.5	30.7	1288.00
.52	2.45	8.85	2.60	.070	.035	.070	.000	1287.00	9946.50
.010782	400.	450.	505.	20	5	0	.00	108.98	10055.48

*SECNO 1.862

1.862	3.58	1291.88	.00	.00	1292.60	.73	1.15	.03	1290.00
1313.0	93.8	1178.6	40.6	53.0	163.8	23.0	88.1	31.0	1290.00

.52	1.77	7.20	1.77	.070	.035	.070	.000	1288.30	9933.60
.007557	50.	130.	195.	2	0	0	.00	140.83	10074.44

CNO 1.928

1.928	3.44	1294.64	.00	.00	1295.44	.81	2.82	.02	1294.00
1313.0	1.9	1081.7	229.4	2.1	138.1	83.7	89.9	32.0	1292.00
.54	.93	7.83	2.74	.070	.035	.070	.000	1291.20	9973.58
.008836	420.	350.	280.	2	0	0	.00	111.24	10084.82

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.021
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.021	3.12	1301.12	1301.12	.00	1302.15	1.03	5.35	.07	1300.00
1313.0	7.8	1300.0	5.2	4.7	158.8	3.1	92.1	33.2	1300.00
.55	1.68	8.19	1.66	.070	.035	.070	.000	1298.00	9956.63
.013713	435.	490.	515.	15	11	0	.00	88.96	10045.58

CNO 2.134

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.134	5.11	1310.31	1310.31	.00	1312.10	1.78	6.76	.23	1306.00
1313.0	182.8	1094.6	35.6	46.5	94.2	11.7	94.3	34.1	1306.00
.57	3.93	11.62	3.03	.070	.035	.070	.000	1305.20	9963.44
.009531	630.	595.	510.	3	14	0	.00	47.72	10011.17

*SECNO 2.208
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.208	4.60	1317.30	1317.30	.00	1318.92	1.61	4.11	.02	1314.00
1313.0	41.2	1264.6	7.2	13.7	121.9	4.3	95.6	34.5	1316.00
.58	3.02	10.37	1.69	.070	.035	.070	.000	1312.70	9981.74
.011449	385.	395.	400.	14	11	0	.00	49.79	10031.52

CCHV= .300 CEHV= .500
*SECNO 2.304

3301 HV CHANGED MORE THAN HVINS

2.304	3.51	1325.01	1324.75	.00	1325.88	.87	6.74	.22	1323.00
1313.0	428.1	882.2	2.7	94.0	102.7	1.4	97.5	35.3	1323.00
.60	4.55	8.59	1.89	.070	.045	.070	.000	1321.50	9932.46
.016212	470.	505.	480.	12	19	0	.00	83.98	10016.43

*SECNO 2.360
7185 MINIMUM SPECIFIC ENERGY
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

2.360	4.75	1331.55	1331.55	.00	1332.55	1.00	4.50	.06	1330.00
1313.0	10.7	1171.7	130.6	5.0	138.7	53.0	98.9	35.9	1330.00
.61	2.14	8.45	2.46	.070	.045	.070	.000	1326.80	9978.55
.014828	250.	295.	350.	5	11	0	.00	108.50	10087.05

*SECNO 2.394

2.394	4.22	1334.42	.00	.00	1335.25	.83	2.65	.05	1332.00
1313.0	369.7	853.5	89.8	87.1	99.5	29.4	99.7	36.3	1332.00
.62	4.24	8.58	3.05	.070	.045	.070	.000	1330.20	9942.91
.013758	265.	180.	100.	2	0	0	.00	97.31	10040.22

*SECNO 2.487

3301 HV CHANGED MORE THAN HVINS

[illegible]5 MINIMUM SPECIFIC ENERGY
[illegible]0 CRITICAL DEPTH ASSUMED

2.487	4.07	1342.37	1342.37	.00	1343.75	1.38	7.61	.27	1340.00
1313.0	48.2	1243.4	21.4	14.2	128.9	7.0	101.8	37.2	1340.00
.63	3.38	9.65	3.04	.070	.045	.070	.000	1338.30	9962.21
.018016	460.	490.	500.	4	8	0	.00	58.73	10020.93

*SECNO 2.581

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 2.581 TO X1 = 3.247 EQUALS Q AT SUB 11 / 2
Q = 1313/2 = 656 CFS

2.581	4.61	1349.91	.00	.00	1350.36	.45	6.33	.28	1350.00
656.0	.0	656.0	.0	.0	121.4	.0	103.3	37.8	1350.00
.66	.00	5.41	.00	.000	.045	.000	.000	1345.30	9975.43
.007255	450.	500.	520.	3	0	0	.00	44.35	10019.78

*SECNO 2.676
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

[illegible]5 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible]3 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.676	4.17	1360.97	1360.97	.00	1362.09	1.11	5.68	.33	1360.00
656.0	6.6	642.7	6.6	3.6	75.2	3.6	104.5	38.3	1360.00
.67	1.86	8.54	1.86	.070	.045	.070	.000	1356.80	9982.69
.020334	540.	500.	375.	20	11	0	.00	44.62	10027.31

*SECNO 2.766
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.766	3.01	1370.51	1370.51	.00	1371.45	.94	9.17	.05	1368.00
656.0	114.4	485.1	56.5	30.8	55.1	15.3	105.5	38.8	1368.00
.69	3.72	8.80	3.70	.070	.045	.070	.000	1367.50	9967.47
.018396	500.	475.	415.	3	19	0	.00	53.38	10020.84

*SECNO 2.869
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.869	3.38	1386.38	1386.38	.00	1387.31	.92	11.11	.01	1386.00
656.0	.6	654.9	.5	.6	84.8	.5	106.6	39.4	1386.00
.71	1.08	7.72	1.08	.070	.045	.070	.000	1383.00	9982.04
.023815	410.	545.	540.	10	8	0	.00	50.36	10032.40

[illegible]ECNO 2.963
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.963	3.47	1399.47	1399.47	.00	1400.52	1.05	10.68	.06	1398.00
656.0	19.5	623.5	12.9	8.1	74.1	5.4	107.6	40.0	1398.00
.73	2.41	8.42	2.39	.070	.045	.070	.000	1396.00	9973.98
.019684	490.	495.	465.	4	8	0	.00	48.37	10022.35

*SECNO 3.071
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.071	3.41	1414.21	1414.21	.00	1415.24	1.04	12.52	.00	1414.00
656.0	.1	655.8	.1	.2	80.2	.1	108.7	40.6	1414.00
.75	.73	8.18	.72	.070	.045	.070	.000	1410.80	9978.46
.024672	610.	570.	505.	9	5	0	.00	42.57	10021.03

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.152
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.152	3.12	1426.22	1426.22	.00	1427.17	.95	10.61	.03	1426.00
656.0	.1	655.8	.1	.2	83.9	.1	109.5	41.0	1426.00
.76	.76	7.81	.76	.070	.045	.070	.000	1423.10	9973.34
.024679	450.	430.	410.	3	11	0	.00	47.76	10021.10

*SECNO 3.247
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.247	2.71	1444.31	1444.31	.00	1444.98	.67	9.49	.08	1442.00
656.0	100.3	472.8	82.8	39.3	62.7	27.4	110.7	41.9	1442.00
.78	2.55	7.54	3.03	.070	.045	.070	.000	1441.60	9934.21
.015301	400.	500.	550.	5	15	0	.00	108.50	10042.71

1
PROFILE FOR STREAM WASH "2" - WHITE TANKS

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1187.	1237.	1287.	1337.	1387.	1437.	1487.	1537.	1587.	1637.
SECNO	CUMDIS									
.00	0.	IE M	.	.	.	.	.	.	.	.	.
	50.	IE M	.	.	.	.	.	.	.	.	.
	100.	IE M	.	.	.	.	.	.	.	.	.
	150.	IWEM	.	.	.	.	.	.	.	.	.
	200.	IWEM	.	.	.	.	.	.	.	.	.
	250.	CIE	.	.	.	.	.	.	.	.	.
	300.	CIE	.	.	.	.	.	.	.	.	.
	350.	CIE	.	.	.	.	.	.	.	.	.
	400.	CIE	.	.	.	.	.	.	.	.	.
.08	450.	CIE	.	.	.	.	.	.	.	.	.
	500.	CIE	.	.	.	.	.	.	.	.	.
	550.	CIEM	.	.	.	.	.	.	.	.	.
	600.	CIWE	.	.	.	.	.	.	.	.	.
	650.	C WE	.	.	.	.	.	.	.	.	.
	700.	C IE	.	.	.	.	.	.	.	.	.
	750.	C IE	.	.	.	.	.	.	.	.	.
	800.	C IE	.	.	.	.	.	.	.	.	.
	850.	C IE	.	.	.	.	.	.	.	.	.
.16	900.	. IE	.	.	.	.	.	.	.	.	.
	950.	C IE	.	.	.	.	.	.	.	.	.
	1000.	C IE	.	.	.	.	.	.	.	.	.
	1050.	C IE	.	.	.	.	.	.	.	.	.
	1100.	C IEM	.	.	.	.	.	.	.	.	.
	1150.	C IEM	.	.	.	.	.	.	.	.	.
	1200.	C IEM	.	.	.	.	.	.	.	.	.
	1250.	C IEM	.	.	.	.	.	.	.	.	.
.24	1300.	C IWE	.	.	.	.	.	.	.	.	.
	1350.	C IWE	.	.	.	.	.	.	.	.	.
	1400.	C ILE	.	.	.	.	.	.	.	.	.
	1450.	C ILE	.	.	.	.	.	.	.	.	.
	1500.	C ILE	.	.	.	.	.	.	.	.	.
	1550.	C ILE	.	.	.	.	.	.	.	.	.
	1600.	C IE	.	.	.	.	.	.	.	.	.
	1650.	C IEM	.	.	.	.	.	.	.	.	.
	1700.	C IEM	.	.	.	.	.	.	.	.	.

```
     1750.  C  IEM   .    .    .    .    .    .    .    .    .    .
.34  1800.  C  IEM   .    .    .    .    .    .    .    .    .    .
     1850.  C  IEM   .    .    .    .    .    .    .    .    .    .
     1900.  C  IEM   .    .    .    .    .    .    .    .    .    .
     1950.  C  IEM   .    .    .    .    .    .    .    .    .    .
     2000.  C  IE    .    .    .    .    .    .    .    .    .    .
     2050.  C  IE    .    .    .    .    .    .    .    .    .    .
.39  2100.  C  IE    .    .    .    .    .    .    .    .    .    .
     2150.  C  IEM   .    .    .    .    .    .    .    .    .    .
     2200.  C  IEM   .    .    .    .    .    .    .    .    .    .
.42  2250.  .   WE   .    .    .    .    .    .    .    .    .    .
     2300.  .   IE   .    .    .    .    .    .    .    .    .    .
.44  2350.  .    E   .    .    .    .    .    .    .    .    .    .
.45  2400.  C  I E   .    .    .    .    .    .    .    .    .    .
     2450.  C I  E   .    .    .    .    .    .    .    .    .    .
     2500.  C I  E   .    .    .    .    .    .    .    .    .    .
     2550.  CI   E   .    .    .    .    .    .    .    .    .    .
.48  2600.  CI   EM  .    .    .    .    .    .    .    .    .    .
     2650.  CI  LEM  .    .    .    .    .    .    .    .    .    .
     2700.  C I LEM  .    .    .    .    .    .    .    .    .    .
     2750.  C I LEM  .    .    .    .    .    .    .    .    .    .
     2800.  C I LEM  .    .    .    .    .    .    .    .    .    .
     2850.  C IL EM  .    .    .    .    .    .    .    .    .    .
     2900.  C IL EM  .    .    .    .    .    .    .    .    .    .
.55  2950.  C  I EM  .    .    .    .    .    .    .    .    .    .
     3000.  C  I EM  .    .    .    .    .    .    .    .    .    .
     3050.  C  I EM  .    .    .    .    .    .    .    .    .    .
     3100.  C  ILEM  .    .    .    .    .    .    .    .    .    .
     3150.  C  ILEM  .    .    .    .    .    .    .    .    .    .
     3200.  C  ILEM  .    .    .    .    .    .    .    .    .    .
     3250.  C   IEM  .    .    .    .    .    .    .    .    .    .
     3300.  C   IWE  .    .    .    .    .    .    .    .    .    .
.63  3350.  C   IWEM .    .    .    .    .    .    .    .    .    .
     3400.  C   IWE  .    .    .    .    .    .    .    .    .    .
     3450.  C   ILE  .    .    .    .    .    .    .    .    .    .
     3500.  C   ILE  .    .    .    .    .    .    .    .    .    .
     3550.  C   ILE  .    .    .    .    .    .    .    .    .    .
     3600.  C   ILE  .    .    .    .    .    .    .    .    .    .
     3650.  C   ILE  .    .    .    .    .    .    .    .    .    .
     3700.  C    IE  .    .    .    .    .    .    .    .    .    .
.70  3750.  .    IE  .    .    .    .    .    .    .    .    .    .
     3800.  C    IE  .    .    .    .    .    .    .    .    .    .
     3850.  C    IE  .    .    .    .    .    .    .    .    .    .
     3900.  C    IE  .    .    .    .    .    .    .    .    .    .
     3950.  C    IE  .    .    .    .    .    .    .    .    .    .
     4000.  C    IE  .    .    .    .    .    .    .    .    .    .
     4050.  C    IE  .    .    .    .    .    .    .    .    .    .
     4100.  C    IE  .    .    .    .    .    .    .    .    .    .
     4150.  C     WE .    .    .    .    .    .    .    .    .    .
     4200.  C     WE .    .    .    .    .    .    .    .    .    .
.80  4250.  C     IE .    .    .    .    .    .    .    .    .    .
     4300.  C     IE .    .    .    .    .    .    .    .    .    .
     4350.  C     IE .    .    .    .    .    .    .    .    .    .
     4400.  C     IE .    .    .    .    .    .    .    .    .    .
     4450.  C     IEM.    .    .    .    .    .    .    .    .    .
     4500.  C     IEM.    .    .    .    .    .    .    .    .    .
     4550.  C      EM.    .    .    .    .    .    .    .    .    .
     4600.  C      EM.    .    .    .    .    .    .    .    .    .
     4650.  C      WE.    .    .    .    .    .    .    .    .    .
     4700.  C      IEM.   .    .    .    .    .    .    .    .    .
.90  4750.  C      IEM.   .    .    .    .    .    .    .    .    .
     4800.  C      IEM.   .    .    .    .    .    .    .    .    .
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THIS RUN EXECUTED 19FEB92 15:20:09

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

4.H2O
Latest Version
w/Floodway

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN      FILE: 4.H2I
T3      JACKRABBIT TRAIL WASH  (WASH 4) -  WHITE TANK STRUCTURE #4 NORTH TO
T4      MEDLOCK DRIVE.

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0   0.00591        0        0        0   1040.0        0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH     FN      ALLDC    IBW     CHNIM    ITRACE

      1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43        1       53       21       22       54       51        4        8
    42        5       26        0      110        0      200

NC     .03      .04      .03       .1       .3
QT       2     1093     1093
ET                       9.1                                                   9906.97   10159.09
          DISCHARGES ARE COMPUTED IN THE SPLIT FLOW ANALYSIS RUN
          FOR JACKRABBIT TRAIL AND IS INCLUDED IN THIS SUBMITTAL FOR REVIEW.

          MATCH FLOODPLAIN AND FLOODWAY INTO 100-YEAR PONDING WSEL BEHIND WHITE
          TANKS STRUCTURE #4.

          Q @ X1 = 0.000 TO X1 = 0.348
          Q = 1093 CFS

X1    0.000        8     9910    10150        0        0        0
GR     1055     9840     1050     9870     1040     9900     1038     9910     1037    10000
GR     1038    10150     1040    10180     1042    10220

ET                       9.1                                                   9910.96   10051.54
X1    0.070        8     9915    10040      370      370      370
GR     1050     9840     1056     9850     1050     9880     1040     9915   1039.5    10000
GR     1040    10040     1042    10060     1044    10210
```

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ET                          9.1                                                  9942.80   10105.32
X1    0.142        8       9940     10110      380       380       380
GR     1057     9890       1050      9920     1044      9940      1042     9970   1041.5     10000
GR     1042    10060       1044     10110     1046     10290

ET                          9.1                                                  9940.72   10151.41
X1    0.228        9       9945     10100      450       450       455
GR     1055     9885       1050      9910     1046      9945    1044.5    10000     1046     10100
GR     1048    10310       1048     10375     1050     10470      1052    10530

NC      .03      .04        .03        .1       .3
ET                          9.1                                                  9964.54   10109.65

          CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE.
          MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NOTRH SIDE.

X1    0.312        5       9970     10025      420       460       440
GR   1051.5     9955       1050      9970     1046     10000      1050    10025     1052     10335

ET                          9.1                                                  9969.92   10091.41
X1    0.348        7       9960     10030      160       300       190
GR     1055     9960       1052      9970     1048     10000      1050    10030     1052     10090
GR     1054    10210       1056     10360

NC      .03      .04        .03        .1       .3
[illegible]       2      963        963
ET                          9.1                                                  9974.86   10065.28

          APPROXIMATELY 250 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
          IN THE NEXT THREE UPSTREAM CROSS SECTIONS.  BREAKOUT FLOWS THEN
          CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

          Q @ X1 = 0.440 TO X1 = 0.499
          Q = 963 CFS

X1    0.440        9       9980     10055      510       410       490
GR   1059.5     9935       1058      9955     1056      9965      1054     9980     1052      9995
GR   1051.8    10000       1052     10010     1054     10055      1056    10085

ET                          9.1                                                     9955   10030.97

          MARICOPA COUNTY,UNINCORPORATED AREAS ON THE SOUTH SIDE OF ROOSEVELT
          ROAD "EXTENDED"
          CITY OF BUCKEYE CORPORATE LIMITS ON THE NORTH SIDE OF ROOSEVELT
          ROAD "EXTENDED"

X1    0.499        7       9955     10030      325       225       310
GR   1055.5     9955       1054      9965   1053.2      9980    1052.9    10000   1053.2     10020
GR     1056    10030     1057.6     10035
```

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Q        2      1186      1186
ET                        9.1                                                    9940.32   10035.81

         Q @ X1 = 0.566 TO X1 = 1.254
         Q = 1186 CFS(AVERAGE DISCHARGE OVER THE NEXT UPSTREAM CROSS SECTIONS)

X1    0.566         8      9950     10030       350       350       355
GR   1057.2      9940      1056      9950      1054      9965    1053.8     10000      1054     10020
GR     1056     10030      1058     10040      1060     10470

ET                        9.1                                                    9957.22   10039.59
X1    0.610         8      9970     10030       230       230       230
GR   1059.5      9940      1058      9970      1056      9980    1055.8     10000      1056     10020
GR     1058     10030      1060     10060      1062     10600

ET                        9.1                                                    9967.18     10040
X1    0.668         6      9980     10030       305       305       305
GR   1062.3      9960      1060      9980    1057.7     10000      1060     10030      1062     10110
GR     1064     10500

NC                                    .3        .5
ET                        9.1                                                    9950.18   10029.91
X1    0.722         7      9950     10030       280       280       285
GR   1065.3      9920      1064      9950      1062      9970      1061     10000      1062     10020
GR     1064     10030      1066     10300

NC     .016      .016      .022
ET                        9.11                                                   9972.72   10027.45

         INTERSTATE 10 - EAST BOUND OFF RAMP
         5 - 10ft x 4ft x 52ft BC

X1    0.759         9    9972.3   10028.0       200       200       200
X3       10                                                          1067.8     1067.8
GR   1067.8      9930    1067.5    9972.3    1062.6    9973.2    1062.6     10000    1062.6   10026.8
GR   1067.5   10028.0      1068     10100      1068     10305      1069     10540

SB        1       1.5       2.5         0     53.67      3.67       200         0    1062.8    1062.6
ET                        9.11                                                   9972.67   10027.17
X1    0.769         8    9972.3   10028.0        52        52        52
X2        0         0         1    1066.8    1068.5
X3       10                                                          1068.5     1068.5
BT        6      9850      1070              9972.3    1068.5              9973.2     1068.5
BT  10026.      1069               10028      1069               10110      1070
GR     1070      9850      1069      9930    1068.5    9972.3    1062.8    9973.2    1062.8     10000
GR   1062.8    10026.    1068.5   10028.0      1070     10110

NC                                    .1        .3
ET                        9.1                                                    9974.52   10025.55
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CONCRETE LINED CHANNEL BETWEEN THE TWO CULVERTS
INTERSTATE 10

X1	0.792	10	9972.0	10028.0	120	120	120			
GR	1070.5	9940	1067.5	9972.0	1067.5	9973.3	1063.5	9977.0	1063.5	10000
GR	1063.5	10023	1067.5	10026.8	1067.5	10028	1070	10030	1080	10045
NC				.3	.5					
ET			9.1						9974.52	10025.55
X1	0.822	10	9972.0	10028.0	160	160	160			
GR	1071.4	9940	1068.4	9972	1068.4	9973.3	1064.4	9977	1064.4	10000
GR	1064.4	10023	1068.4	10026.8	1068.4	10028	1070.9	10030	1080.9	10045
ET			9.11						9973.89	10026.71

INTERSTATE 10 - WEST BOUND ON RAMP
4 - 12ft x 4.5ft x 52ft BC

X1	0.847	8	9973.3	10028.0	130	130	130			
X3	10							1071.7	1071.7	
GR	1071.7	9930	1071.7	9973.3	1065.1	9974.4	1065.1	10000	1065.1	10025.6
GR	1071.7	10028	1072	10080	1076	10320				
SB	1	1.5	2.5	0	53.67	3.67	200	0	1065.4	1065.1
ET			9.11						9973.82	10026.81
	0.857	7	9973.3	10028.0	52	52	52			
X2	0	0	1	1069.4	1071.7					
X3	10							1071.7	1071.7	
BT	6	9925	1072		9973.3	1071.7		9974.4	1071.7	
BT	10025.	1072		10028	1072		10100	1073.5		
GR	1072	9925	1071.7	9973.3	1065.4	9974.4	1065.4	10000	1065.4	10025.6
GR	1072	10028.0	1073.5	10100						
NC				.1	.3					
ET			9.1						9954.80	10050
X1	0.914	8	9975	10030	301	301	301			
GR	1074.6	9940	1073	9960	1072	9975	1071	9985	1070.5	10000
GR	1071	10015	1072	10030	1074	10130				
NC	.012	.012	.012	.3	.5					
ET			9.11						9973.37	10026.73

MCDOWELL ROAD
4 - 12 X 4.5 FT. BOX CULVERTS

X1	0.959	10	9973.3	10026.8	240	240	240			
X3	10							1079.9	1079.9	
GR	1079.9	9940	1079.9	9973.3	1072.5	9973.4	1072.5	10000	1072.5	10026.7
GR	1080.1	10026.8	1080.3	10140	1078.8	10420	1080	10905	1082	11225

```
SB    1.05      1.5       2.6         0       51.25       3.25       216         0    1073.5    1072.5
ET                        9.11                                                        9973.35   10026.75

          CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE OF MCDOWELL RD.
          MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NORTH SIDE OF MCDOWELL RD

X1    0.969        10    9973.3   10026.8        52         52         52
X2        0         0         1      1078    1079.9
X3       10                                                          1079.9    1079.9
BT        9      9940    1079.9            9973.3      1080          9973.4      1080
BT  10026.     1080.1              10028    1080.1                  1080.3                10420
BT   1078.8              10905      1080                11225       1082
GR   1079.9      9940    1079.9    9973.3    1073.5    9973.4     1073.5     10000    1073.5   10026.7
GR   1080.1   10026.8    1080.3     10140    1078.8     10420      1080     10905      1082     11225

NC    .025      .025      .025        .1        .3
ET                        9.1                                                         9971.68   10307.46
X1   1.016        10      9980     10025       250        250        250
GR    1083      9950      1078      9980      1076       9990     1075.6     10000      1076     10015
GR    1078     10025    1078.5     10050      1079      10180      1080     10510    1081.5     10690

NC    .035       .06       .03        .1        .3
ET                        9.1                                                         9972.84   10034.32
X1   1.064        12      9980     10020       253        253        253
GR  1084.2      9960      1082      9970      1080       9980      1078      9990    1077.6     10000
     1078     10010      1080     10020      1082      10040    1082.1     10050      1082     10080
GR  1081.5     10150    1082.5     10350

ET                        9.1                                                         9970.62   10076.92

          FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL, HOWEVER VERY
          SMALL AMOUNT IN THE NEXT THREE UPSTREAM CROSS SECTIONS.  BREAKOUT
          FLOWS THEN CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

X1   1.159         8      9980     10030       500        500        500
GR  1086.2      9960      1086      9970      1084       9980     1082.5     10000      1084     10030
GR    1086     10080      1088     10350    1088.4      10405

ET                        9.1                                                            9965   10030.03
X1   1.254        10      9980     10020       500        500        500
GR  1090.4      9965      1090      9980      1088       9990      1086      9995    1085.8     10000
GR    1086     10010      1088     10015      1090      10020      1092     10060    1092.4     10100

QT        2       955       955
ET                        9.1                                                         9981.89   10068.66

          Q @ X1 = 1.348 TO X1  = 1.725
          Q = 955 CFS
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X1    1.348       9      9985     10050       500       500       500
GR   1095.3    9970      1095      9980      1094      9985      1092      9990    1091.5     10000
GR     1092   10025      1094     10050      1096     10110      1098     10320

ET                        9.1                                                    9970.88     10075
X1    1.443       9      9980     10030       500       500       500
GR   1099.5    9960      1099      9970      1098      9980      1096      9990    1095.6     10000
GR     1096   10010      1098     10030      1100     10210      1102     10470

ET                        9.1                                                    9961.86   10085.96
X1    1.536       8      9985     10025       490       490       490
GR   1103.9    9955    1103.5      9965      1102      9985    1100.1     10000      1102     10025
GR     1104   10100      1106     10210    1107.1     10325

ET                        9.1                                                       9964   10119.84

          APPROXIMATELY 390 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
          FOR THE NEXT THREE UPSTREAM CROSS SECTIONS.  BREAKOUT FLOWS CONTINUE
          OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

X1    1.631       8      9990     10020       500       500       500
GR   1108.4    9960      1108      9975      1106      9990    1105.1     10000      1106     10020
GR     1108   10090    1108.2     10110      1110     10300

ET                        9.1                                                       9950   10064.99
X1    1.725       7      9990     10020       500       500       500
GR     1113    9950      1112      9980      1110      9990      1110     10000      1110     10010
GR     1112   10020    1113.7     10080

QT        2    1105      1105
ET                        9.1                                                    9954.24   10035.52

          Q @ X1 = 1.818 TO X1 = 2.482
          Q = 1105 CFS

X1    1.818       9      9980     10025       490       490       490
GR   1117.7    9950      1117      9960      1116      9980    1114.2      9990    1114.2     10000
GR   1114.2   10010      1116     10025      1118     10040    1118.5     10070

ET                        9.1                                                    9978.05   10041.95
X1    1.913       9      9990     10030       500       500       500
GR   1122.1    9940      1122      9970      1120      9990      1118      9995    1117.5     10000
GR     1118   10020      1120     10030      1122     10050      1124     10230

ET                        9.1                                                    9953.77   10059.34

          THOMAS ROAD

X1    2.008      10      9980     10020       500       500       500
GR   1125.5    9950      1125      9960      1124      9980      1122      9990      1121     10000
GR     1122   10010      1124     10020      1126     10080      1128     10240      1130     10380
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ET                    9.1                                                  9950    10063.51
X1    2.107      13   9975   10020    525    525    525
GR   1130.8    9950 1130.5    9960   1130   9975   1128   9985   1126.5    10000
GR     1128   10005   1130   10020 1131.9  10100 1131.3  10160   1131.7    10200
GR   1131.5   10225   1132   10245 1132.6  10270

ET                    9.1                                               9975.30    10039.40
X1    2.202      12   9985   10020    500    500    500
GR   1134.3    9960   1134    9975   1132   9985   1130   9990   1129.5    10000
GR     1130   10010   1132   10020   1134  10040   1136  10160     1138    10380
GR     1138   10460   1140   10680

ET                    9.1                                               9968.30       10060
X1    2.296      12   9985   10030    500    500    500
GR   1137.6    9965   1137    9975   1136   9985   1134   9990   1133.7    10000
GR     1134   10005   1136   10030   1137  10060   1138  10130     1139    10215
GR     1140   10380   1142   10525

ET                    9.1                                               9950.08       10050
X1    2.389      12   9985   10030    490    490    490
GR   1140.9    9940 1140.5    9950   1140   9955   1138   9985   1137.2    10000
GR     1138   10030   1140   10050 1140.5  10100 1141.7  10205   1141.2    10245
GR     1142   10300 1142.6   10350

ET                    9.1                                               9923.09    10026.91
X1    2.482      16   9975   10030    490    490    490
GR     1144    9920   1142    9940 1140.6    9950   1142   9960     1143     9975
GR     1142    9990 1140.7   10000   1142   10010   1144  10030     1146    10150
GR     1146   10295 1145.6   10320   1146   10340 1146.8  10400   1146.5    10480
GR     1148   10550

QT       2     915    915
ET                    9.1                                                  9915    10052.32

          Q @ X1 = 2.576 TO X1 = 2.912
          Q = 915 CFS

X1    2.576      14   9980   10030    495    495    495
GR   1146.4    9915   1146    9925   1144   9935 1142.1   9950     1144     9965
GR   1145.8    9980   1144    9990 1142.8   10000   1144  10010     1146    10030
GR   1146.6   10060   1148   10220   1150   10370   1152  10600

ET                    9.1                                               9921.02    10036.54
X1    2.670      11   9985   10040    500    500    500
GR   1147.8    9920 1147.5    9930   1146   9940 1144.1   9950     1146     9980
GR     1147    9985   1146    9990 1145.5   10000   1146  10010     1148    10040
GR     1148   10070
```

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ET                    9.1                                                  9930.39   10058.45
X1    2.765      15   9930   10060    500    500    500
GR   1150.8    9915 1150.5    9925   1150   9930   1148   9940   1147.2    9950
GR     1148    9960 1148.3    9975   1148   9990 1147.7  10000     1148   10020
GR     1150   10060   1152   10330   1152  10430   1154  10470     1156   10610

ET                    9.1                                                  9934.26      10050
X1    2.860      15   9935   10020    500    500    500
GR   1153.8    9915 1153.5    9925   1152   9935   1150   9950   1149.8    9960
GR     1150    9970 1151.1    9980   1150   9990 1149.7  10000     1150   10020
GR   1151.8   10040   1152   10170   1154  10310   1156  10425     1158   10535

ET                    9.1                                                  9963.09   10025.47
X1    2.912      12   9965   10020    300    300    300
GR   1157.1    9910 1156.8    9920   1156   9930   1154   9965     1152    9980
GR   1150.6   10000   1152   10010   1154  10020   1156  10120     1156   10290
GR     1156   10335   1158   10630

QT        2     726    726
ET                    9.1                                                  9955.76   10098.48

          Q @ X1 = 2.973 TO X1 = 3.342
          Q = 726 CFS
          INDIAN SCHOOL ROAD

      2.973      15   9950   10020    300    300    300
GR   1160.3    9915   1160    9930   1158   9940   1158   9950     1156    9960
GR     1154    9985   1154   10000   1156  10020   1156  10090     1158   10110
GR     1160   10130   1162   10170   1164  10205   1166  10490     1168   10770

ET                    9.1                                                  9959.25      10050
X1    3.059      15   9960   10025    450    450    450
GR   1161.1    9930 1160.8    9940   1160   9950   1158   9960     1156    9970
GR     1155   10000   1156   10025   1156  10060   1158  10090     1158   10105
GR     1160   10110   1162   10115   1164  10120   1166  10125     1168   10130

ET                    9.1                                                  9975.80   10033.80
X1    3.154      15   9975   10035    505    505    505
GR   1162.1    9940   1162    9960   1160   9975   1158   9985   1157.3   10000
GR     1158   10020   1160   10035   1162  10045   1164  10055     1164   10070
GR     1162   10080   1162   10115   1164  10130   1166  10140     1168   10150

ET                    9.1                                                  9963.29   10016.04
X1    3.247      10   9970   10010    490    490    490
GR   1163.8    9960   1162    9970   1160   9985 1159.4  10000     1160   10005
GR     1162   10010   1164   10020   1166  10030   1168  10040   1169.1   10045

ET                    9.1                                                  9974.94   10020.06
X1    3.342      11   9975   10020    500    500    500
GR   1168.2    9965   1168    9970   1166   9975   1164   9985   1163.1   10000
GR     1164   10015   1166   10020   1168  10025   1170  10030     1172   10035
GR   1173.6   10040
```

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QT      2       594       594
ET                        9.1                                                  9981.03    10033.59

        Q @ X1 = 3.436 TO X1 = 3.719
        Q = 594 CFS

X1    3.436       10      9990     10030       495       500       495
GR   1170.8     9980      1170      9990      1168      9995    1167.7     10000      1168     10010
GR     1170    10030      1172     10040      1174     10045      1176     10050    1176.6     10055

ET                        9.1                                                  9969.33     10080
X1    3.530       13      9980     10040       500       500       500
GR   1173.3     9960      1172      9980      1170      9990    1169.9     10000      1170     10010
GR   1170.3    10040      1172     10080      1174     10180      1174     10215    1173.3     10225
GR     1174    10240      1176     10350      1178     10530

ET                        9.1                                                  9963.55     10080
X1    3.625       11      9965     10050       500       500       500
GR   1175.1     9955      1174      9965    1172.3     10000    1173.5     10050      1174     10165
GR     1176    10360      1178     10430      1178     10475    1178.8     10510      1178     10575
GR     1180    10650

ET                        9.1                                                  9968.09     10100
X1    3.719       15      9980     10040       495       495       495
GR     1177     9965      1176      9980      1174      9995      1174     10000      1174     10005
GR     1176    10040    1176.5     10100      1176     10180    1176.2     10205    1177.1     10240
GR   1176.8    10280      1178     10300      1180     10360      1180     10390      1182     10610

QT      2       221       221
ET                        9.1                                                  9986.22     10055

        Q @ X1 = 3.813 TO X1 = 4.016
        Q = 221 CFS

X1    3.813       17      9980     10035       500       500       500
GR   1181.2     9965      1180      9980      1178      9990    1176.8     10000      1178     10015
GR     1179    10035    1178.1     10050      1180     10065    1180.3     10075      1180     10085
GR   1178.3    10105      1180     10120      1182     10205    1180.8     10245      1182     10265
GR     1184    10350      1186     10570

ET                        9.1                                                  9986.01    10035.96

        CAMELBACK ROAD

X1    3.930        9      9980     10020       615       615       615
GR   1184.5     9965      1184      9980      1182      9990    1180.2     10000      1182     10020
GR     1184    10060      1186     10210      1188     10350      1190     10500
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ET                    9.1                                                  9961.38     10060

        APPROXIMATELY 152 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
        FOR THE NEXT THREE UPSTREAM CROSS SECTIONS.  BREAKOUT FLOWS THEN
        CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

X1    4.016        9     9990    10040      455      455      455
GR     1185     9955   1184.3     9965     1184     9990   1182.8    10000     1184    10040
GR     1184    10090     1186    10150     1188    10285     1190    10435

QT        2       68       68
ET                         9.1                                                   9965   10043.82

        Q @ X1 = 4.086
        Q = 68 CFS

X1    4.086        6     9965    10060      370      370      370
GR   1185.3     9965   1184.3    10000     1186    10060   1186.6    10160     1188    10220
GR     1190    10240

QT        2      187      187
ET                         9.1                                                   9930   10104.94

        MEDLOCK DRIVE
        Q = 187 CFS

X1    4.152        7     9930    10030      350      350      350
GR   1185.5     9930     1183    10000     1184    10030     1186    10120     1188    10280
GR     1190    10350     1192    10470
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO .000

DISCHARGES ARE COMPUTED IN THE SPLIT FLOW ANALYSIS RUN
FOR JACKRABBIT TRAIL AND IS INCLUDED IN THIS SUBMITTAL FOR REVIEW.

MATCH FLOODPLAIN AND FLOODWAY INTO 100-YEAR PONDING WSEL BEHIND WHITE
TANKS STRUCTURE #4.

Q @ X1 = 0.000 TO X1 = 0.348
Q = 1093 CFS

.000	1.61	1038.61	.00	1040.00	1038.87	.26	.00	.00	1038.00
1093.0	1.6	1087.9	3.6	.9	265.4	2.8	.0	.0	1038.00
.00	1.71	4.10	1.29	.030	.030	.040	.000	1037.00	9906.97
.005989	0.	0.	0.	0	0	5	.00	252.12	10159.09

*SECNO .070

.070	1.66	1041.16	.00	.00	1041.73	.57	2.77	.09	1040.00
1093.0	7.6	1068.6	16.7	2.3	175.5	6.7	1.9	1.7	1040.00
.02	3.28	6.09	2.52	.030	.030	.040	.000	1039.50	9910.96
.009619	370.	370.	370.	3	0	0	.00	140.58	10051.54

*SECNO .142

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

.142	2.31	1043.81	.00	.00	1044.10	.29	2.35	.03	1044.00
1093.0	.0	1093.0	.0	.0	251.4	.0	3.8	3.0	1044.00
.04	.00	4.35	.00	.000	.030	.000	.000	1041.50	9942.80
.004309	380.	380.	380.	3	0	0	.00	162.52	10105.32

*SECNO .228

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

.228	1.99	1046.49	1046.42	.00	1046.97	.48	2.81	.05	1046.00
1093.0	2.0	1073.1	17.9	1.0	192.1	12.6	6.2	4.9	1046.00
.06	1.89	5.59	1.42	.030	.030	.040	.000	1044.50	9940.72
.009550	450.	455.	450.	6	15	0	.00	210.69	10151.41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO .312
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE.
MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NOTRH SIDE.

.312	4.55	1050.55	1050.55	.00	1051.41	.87	3.53	.12	1050.00
1093.0	2.6	1060.6	29.8	1.5	140.0	23.1	8.1	6.8	1050.00
.08	1.72	7.57	1.29	.030	.030	.040	.000	1046.00	9964.54
.006819	420.	440.	460.	3	20	0	.00	145.11	10109.65

*SECNO .348

.348	4.03	1052.03	.00	.00	1052.55	.52	1.10	.03	1055.00
1093.0	.0	936.3	156.7	.0	151.4	61.4	9.0	7.5	1050.00
.09	.00	6.18	2.55	.000	.030	.040	.000	1048.00	9969.92
.004578	160.	190.	300.	0	0	0	.00	121.48	10091.41

CCHV= .100 CEHV= .300
*SECNO .440

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

APPROXIMATELY 250 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
IN THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN
CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

Q @ X1 = 0.440 TO X1 = 0.499
Q = 963 CFS

.440	2.89	1054.69	.00	.00	1055.38	.69	2.78	.05	1054.00
963.0	3.7	953.7	5.6	1.8	142.9	3.5	11.0	8.7	1054.00
.11	2.12	6.67	1.59	.030	.030	.040	.000	1051.80	9974.86
.007713	510.	490.	410.	1	0	0	.00	90.41	10065.28

*SECNO .499
3280 CROSS SECTION .50 EXTENDED .81 FEET

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.77

MARICOPA COUNTY,UNINCORPORATED AREAS ON THE SOUTH SIDE OF ROOSEVELT
ROAD "EXTENDED"
CITY OF BUCKEYE CORPORATE LIMITS ON THE NORTH SIDE OF ROOSEVELT
ROAD "EXTENDED"

.499	3.41	1056.31	.00	.00	1056.66	.35	1.24	.03	1055.50
963.0	.0	962.9	.1	.0	203.7	.2	12.2	9.2	1056.00
.13	.00	4.73	.51	.000	.030	.040	.000	1052.90	9955.00
.002459	325.	310.	225.	2	0	0	.00	75.97	10030.97

*SECNO .566

Q @ X1 = 0.566 TO X1 = 1.254
Q = 1186 CFS(AVERAGE DISCHARGE OVER THE NEXT UPSTREAM CROSS SECTIONS)

.566	3.36	1057.16	.00	.00	1057.55	.39	.88	.01	1056.00
1186.0	9.6	1172.1	4.3	5.6	233.4	3.4	14.1	9.9	1056.00
.15	1.71	5.02	1.27	.030	.030	.040	.000	1053.80	9940.32
.002478	350.	355.	350.	3	0	0	.00	95.49	10035.81

*SECNO .610

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.610	2.84	1058.64	1058.64	.00	1059.68	1.04	.97	.20	1058.00
1186.0	8.9	1172.1	5.0	4.1	142.3	3.1	15.1	10.4	1058.00
.16	2.17	8.23	1.63	.030	.030	.040	.000	1055.80	9957.22
.008812	230.	230.	230.	20	11	0	.00	82.37	10039.59

*SECNO .668
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.668	3.77	1061.47	1061.47	.00	1062.35	.88	2.41	.02	1060.00
1186.0	32.2	1042.4	111.4	9.5	131.2	43.5	16.3	11.1	1060.00
.17	3.40	7.94	2.56	.030	.030	.040	.000	1057.70	9967.18
.007147	305.	305.	305.	1	11	0	.00	121.79	10088.97

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO  .722
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .722      2.98   1063.98   1063.98       .00   1064.91       .93      2.41       .03   1064.00
   1186.0        .0    1186.0        .0        .0     153.5        .0      17.4      11.8   1064.00
     .18       .00      7.72       .00      .000      .030      .000      .000   1061.00   9950.18
  .010206      280.      285.      280.         2        18         0       .00     79.72  10029.91


*SECNO  .759

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1067.80 ELREA=      1067.80


         INTERSTATE 10 - EAST BOUND OFF RAMP
         5 - 10ft x 4ft x 52ft BC

     .759      2.64   1065.24       .00       .00   1066.31      1.07      1.33       .07   1067.50
   1186.0        .0    1186.0        .0        .0     142.8        .0      18.0      12.1   1067.50
     .19       .00      8.31       .00      .000      .022      .000      .000   1062.60   9972.72
  .004653      200.      200.      200.         4         0         0       .00     54.73  10027.45


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1064.62 , NOT    1065.24 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.00      1.50      2.50       .00     53.67      3.67    200.00       .00   1062.80   1062.60

*SECNO  .769

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1065.29 BRIDGE VELOCITY=       9.14     CALCULATED CHANNEL AREA=       125.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1066.05	1066.81	.00	0.	1186.	200.	200.	1066.80	1068.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1068.50 ELREA= 1068.50

.769	3.33	1066.13	.00	.00	1066.81	.68	.51	.00	1068.50
1186.0	.0	1186.0	.0	.0	178.7	.0	18.2	12.1	1068.50
.19	.00	6.64	.00	.000	.022	.000	.000	1062.80	9972.67
.002239	52.	52.	52.	0	0	0	.00	54.50	10027.17

CCHV= .100 CEHV= .300
*SECNO .792

3301 HV CHANGED MORE THAN HVINS

MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

CONCRETE LINED CHANNEL BETWEEN THE TWO CULVERTS
INTERSTATE 10

.792	2.68	1066.18	1066.18	.00	1067.47	1.29	.40	.18	1067.50
1186.0	.0	1186.0	.0	.0	130.1	.0	18.7	12.3	1067.50
.19	.00	9.11	.00	.000	.022	.000	.000	1063.50	9974.52
.005543	120.	120.	120.	3	15	0	.00	51.03	10025.55

CCHV= .300 CEHV= .500
*SECNO .822
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.822	2.68	1067.08	1067.08	.00	1068.37	1.29	.89	.00	1068.40
1186.0	.0	1186.0	.0	.0	130.2	.0	19.1	12.5	1068.40
.20	.00	9.11	.00	.000	.022	.000	.000	1064.40	9974.52
.005533	160.	160.	160.	0	5	0	.00	51.03	10025.55

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .847

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1071.70 ELREA= 1071.70

INTERSTATE 10 - WEST BOUND ON RAMP
4 - 12ft x 4.5ft x 52ft BC

.847	3.07	1068.17	.00	.00	1069.03	.86	.53	.13	1071.70
1186.0	.0	1186.0	.0	.0	159.1	.0	19.6	12.6	1071.70
.20	.00	7.45	.00	.000	.022	.000	.000	1065.10	9973.89
.003138	130.	130.	130.	3	0	0	.00	52.82	10026.71

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1067.12 , NOT 1068.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.50	2.50	.00	53.67	3.67	200.00	.00	1065.40	1065.10

*SECNO .857
CLASS B LOW FLOW

3420 BRIDGE W.S.= 1067.84 BRIDGE VELOCITY= 9.14 CALCULATED CHANNEL AREA= 122.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1068.99	1069.46	.00	0.	1186.	200.	200.	1069.40	1071.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1071.70 ELREA= 1071.70

.857	3.33	1068.73	.00	.00	1069.46	.73	.43	.00	1071.70
1186.0	.0	1186.0	.0	.0	173.5	.0	19.8	12.7	1072.00
.20	.00	6.84	.00	.000	.022	.000	.000	1065.40	9973.82
.002382	52.	52.	52.	0	0	0	.00	52.99	10026.81

CCHV= .100 CEHV= .300
*SECNO .914
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

.914	2.92	1073.42	1073.42	.00	1074.07	.65	.86	.01	1072.00
1186.0	73.1	894.5	218.4	14.8	127.9	50.1	21.0	13.4	1072.00
.22	4.93	7.00	4.36	.016	.022	.016	.000	1070.50	9954.80
.003490	301.	301.	301.	20	12	0	.00	145.99	10100.79

CCHV= .300 CEHV= .500
*SECNO .959

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1079.90 ELREA= 1079.90

MCDOWELL ROAD
4 - 12 X 4.5 FT. BOX CULVERTS

.959	2.48	1074.98	1074.98	.00	1076.23	1.24	.58	.30	1079.90
1186.0	.0	1186.0	.0	.0	132.5	.0	21.9	13.9	1080.10
.22	.00	8.95	.00	.000	.012	.000	.000	1072.50	9973.37
.001749	240.	240.	240.	20	11	0	.00	53.37	10026.73

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1074.60 , NOT 1074.98 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.60	.00	51.25	3.25	216.00	.00	1073.50	1072.50

*SECNO .969

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1075.67 BRIDGE VELOCITY= 9.26 CALCULATED CHANNEL AREA= 104.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1077.56	.00	0.	1186.	216.	216.	1078.00	1079.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1079.90 ELREA= 1079.90

CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE OF MCDOWELL RD.
MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NORTH SIDE OF MCDOWELL RD

.969	3.40	1076.90	.00	.00	1077.56	.66	1.34	.00	1079.90
1186.0	.0	1186.0	.0	.0	181.5	.0	22.1	14.0	1080.10
.23	.00	6.53	.00	.000	.012	.000	.000	1073.50	9973.35
.000638	52.	52.	52.	0	0	0	.00	53.41	10026.75

CCHV= .100 CEHV= .300
*SECNO 1.016
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.016	3.79	1079.39	1079.39	.00	1079.86	.48	.28	.02	1078.00
1186.0	13.5	869.1	303.4	5.8	137.4	135.7	23.4	15.1	1078.00
.24	2.35	6.33	2.24	.025	.025	.025	.000	1075.60	9971.68
.002588	250.	250.	250.	20	8	0	.00	335.77	10307.46

CCHV= .100 CEHV= .300
*SECNO 1.064

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.064	3.83	1081.43	1081.43	.00	1082.79	1.36	1.09	.27	1080.00
1186.0	15.8	1151.5	18.7	5.1	121.3	10.3	24.6	16.3	1080.00
.25	3.09	9.49	1.82	.035	.030	.060	.000	1077.60	9972.84
.008488	253.	253.	253.	20	9	0	.00	61.48	10034.32

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.159

FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL, HOWEVER VERY SMALL AMOUNT IN THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

1.159	3.37	1085.87	1085.73	.00	1086.80	.93	3.96	.04	1084.00
1186.0	30.5	1065.6	90.0	8.8	131.3	44.0	26.5	17.2	1084.00
.26	3.46	8.11	2.04	.035	.030	.060	.000	1082.50	9970.62
.007420	500.	500.	500.	4	11	0	.00	106.30	10076.92

*SECNO 1.254
3280 CROSS SECTION 1.25 EXTENDED .10 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.254	4.70	1090.50	1090.50	.00	1091.83	1.33	3.83	.12	1090.00
1186.0	7.6	1176.2	2.2	4.5	126.6	2.5	28.3	18.2	1090.00
.28	1.69	9.29	.88	.035	.030	.060	.000	1085.80	9965.00
.007923	500.	500.	500.	2	11	0	.00	65.03	10030.03

*SECNO 1.348

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 1.348 TO X1 = 1.725
Q = 955 CFS

1.348	3.12	1094.62	.00	.00	1095.24	.62	3.34	.07	1094.00
955.0	1.4	948.7	4.9	1.0	149.2	5.8	30.0	19.1	1094.00
.30	1.43	6.36	.84	.035	.030	.060	.000	1091.50	9981.89
.005499	500.	500.	500.	2	0	0	.00	86.77	10068.66

*SECNO 1.443
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.443	3.31	1098.91	1098.91	.00	1099.74	.83	3.15	.06	1098.00
955.0	8.9	899.5	46.7	4.1	119.5	37.3	31.8	20.4	1098.00
.32	2.14	7.52	1.25	.035	.030	.060	.000	1095.60	9970.89
.007280	500.	500.	500.	3	8	0	.00	141.06	10111.96

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.536
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.536	3.53	1103.63	1103.63	.00	1104.45	.82	3.53	.00	1102.00
955.0	57.5	807.3	90.3	17.7	103.0	49.6	33.7	21.9	1102.00
.34	3.25	7.84	1.82	.035	.030	.060	.000	1100.10	9961.86
.007132	490.	490.	490.	3	8	0	.00	124.11	10085.96

*SECNO 1.631
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

APPROXIMATELY 390 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
FOR THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS CONTINUE
OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

1.631	3.19	1108.29	1108.29	.00	1109.00	.71	3.46	.01	1106.00
955.0	81.1	653.3	220.6	21.0	82.3	94.8	35.8	23.5	1106.00
.36	3.86	7.94	2.33	.035	.030	.060	.000	1105.10	9964.00
.006705	500.	500.	500.	3	11	0	.00	155.84	10119.84

*SECNO 1.725
3280 CROSS SECTION 1.73 EXTENDED .27 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.725	3.27	1113.27	1113.27	.00	1114.10	.82	3.28	.03	1110.00
955.0	198.1	714.8	42.1	46.0	88.2	28.7	37.8	25.0	1112.00
.38	4.31	8.10	1.47	.035	.030	.060	.000	1110.00	9950.00
.006401	500.	500.	500.	8	5	0	.00	114.99	10064.99

*SECNO 1.818
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 1.818 TO X1 = 2.482
Q = 1105 CFS

1.818	3.20	1117.40	1117.40	.00	1118.44	1.04	3.48	.07	1116.00
1105.0	64.6	1027.7	12.7	19.2	121.6	7.4	39.6	26.1	1116.00
.40	3.36	8.45	1.72	.035	.030	.060	.000	1114.20	9954.25
.007791	490.	490.	490.	3	5	0	.00	81.27	10035.52

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.913

1.913	3.70	1121.20	1121.18	.00	1122.43	1.23	3.93	.06	1120.00
1105.0	19.1	1074.8	11.1	7.1	119.1	7.1	41.2	27.0	1120.00
.42	2.67	9.03	1.56	.035	.030	.060	.000	1117.50	9978.05
.007914	500.	500.	500.	4	8	0	.00	63.91	10041.95

*SECNO 2.008
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

THOMAS ROAD

2.008	4.31	1125.31	1125.31	.00	1126.30	.99	3.56	.02	1124.00
1105.0	49.0	1017.4	38.7	17.2	122.5	25.8	42.9	28.0	1124.00
.43	2.85	8.31	1.50	.035	.030	.060	.000	1121.00	9953.77
.006433	500.	500.	500.	2	8	0	.00	105.57	10059.34

*SECNO 2.107
CROSS SECTION 2.11 EXTENDED .23 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.107	4.53	1131.03	1131.03	.00	1132.01	.97	3.51	.00	1130.00
1105.0	42.5	1032.6	29.9	15.6	126.5	22.5	44.9	29.3	1130.00
.45	2.72	8.16	1.33	.035	.030	.060	.000	1126.50	9950.00
.006971	525.	525.	525.	10	8	0	.00	113.51	10063.51

*SECNO 2.202

2.202	4.44	1133.94	.00	.00	1134.93	.99	2.92	.00	1132.00
1105.0	27.2	1045.8	32.0	9.4	127.9	18.8	46.8	30.3	1132.00
.47	2.89	8.18	1.70	.035	.030	.060	.000	1129.50	9975.30
.004952	500.	500.	500.	3	0	0	.00	64.10	10039.40

*SECNO 2.296
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.296	3.70	1137.40	1137.40	.00	1138.35	.95	2.91	.00	1136.00
1105.0	31.3	1017.5	56.2	10.4	125.3	32.7	48.6	31.4	1136.00
.49	3.02	8.12	1.72	.035	.030	.060	.000	1133.70	9968.30
.006950	500.	500.	500.	2	15	0	.00	119.85	10088.15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.389

2.389	3.29	1140.49	.00	.00	1141.06	.57	2.67	.04	1138.00
1105.0	165.8	867.6	71.7	46.0	130.2	42.0	50.8	32.9	1138.00
.51	3.60	6.66	1.71	.035	.030	.060	.000	1137.20	9950.07
.004396	490.	490.	490.	2	0	0	.00	149.21	10099.28

*SECNO 2.482

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

2.482	3.09	1143.69	1143.66	.00	1144.44	.75	3.33	.05	1143.00
1105.0	543.9	561.1	.0	79.9	78.9	.0	52.9	34.3	1144.00
.53	6.80	7.11	.00	.035	.030	.000	.000	1140.60	9923.10
.011854	490.	490.	490.	4	11	0	.00	103.81	10026.90

*SECNO 2.576
3280 CROSS SECTION 2.58 EXTENDED .05 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

Q @ X1 = 2.576 TO X1 = 2.912
Q = 915 CFS

2.576	4.35	1146.45	.00	.00	1146.66	.21	2.16	.05	1145.80
915.0	530.9	382.0	2.0	142.0	105.3	5.0	55.2	35.7	1146.00
.57	3.74	3.63	.41	.035	.030	.060	.000	1142.10	9915.00
.002007	495.	495.	495.	3	0	0	.00	137.32	10052.32

*SECNO 2.670

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

2.670	3.67	1147.77	.00	.00	1148.11	.35	1.41	.04	1147.00
915.0	636.0	279.0	.0	126.5	70.2	.0	57.8	37.1	1148.00
.60	5.03	3.97	.00	.035	.030	.000	.000	1144.10	9921.02
.004278	500.	500.	500.	3	0	0	.00	115.53	10036.54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.765

2.765	2.72	1149.92	.00	.00	1150.22	.30	2.11	.00	1150.00
915.0	.0	915.0	.0	.0	208.0	.0	60.1	38.5	1150.00
.63	.00	4.40	.00	.000	.030	.000	.000	1147.20	9930.39
.004144	500.	500.	500.	3	0	0	.00	128.07	10058.45

*SECNO 2.860

2.860	2.41	1152.11	.00	.00	1152.52	.41	2.26	.03	1152.00
915.0	.0	849.9	65.1	.0	160.0	52.2	62.6	40.6	1150.00
.66	.03	5.31	1.25	.035	.030	.060	.000	1149.70	9934.26
.004970	500.	500.	500.	2	0	0	.00	243.55	10177.81

*SECNO 2.912

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.912	3.51	1154.11	1154.11	.00	1155.14	1.04	2.11	.19	1154.00
915.0	.1	914.8	.1	.1	112.0	.3	63.7	41.7	1154.00
.67	.63	8.17	.37	.035	.030	.060	.000	1150.60	9963.09
.010652	300.	300.	300.	3	14	0	.00	62.38	10025.47

*SECNO 2.973

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 2.973 TO X1 = 3.342
Q = 726 CFS
INDIAN SCHOOL ROAD

2.973	2.85	1156.85	.00	.00	1157.19	.35	1.98	.07	1158.00
726.0	.0	638.4	87.6	.0	127.7	63.0	64.7	42.4	1156.00
.68	.00	5.00	1.39	.000	.030	.060	.000	1154.00	9955.76
.004099	300.	300.	300.	3	0	0	.00	142.72	10098.48

*SECNO 3.059

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

3.059	3.15	1158.15	.00	.00	1158.31	.16	1.10	.02	1158.00
726.0	.0	562.9	163.0	.1	157.2	112.0	67.1	43.9	1156.00
.73	.02	3.58	1.46	.035	.030	.060	.000	1155.00	9959.25
.001618	450.	450.	450.	4	0	0	.00	146.12	10105.37

*SECNO 3.154

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.154	2.54	1159.84	1159.84	.00	1160.70	.86	1.72	.21	1160.00
726.0	.0	726.0	.0	.0	97.8	.0	69.2	45.1	1160.00
.74	.00	7.42	.00	.000	.030	.000	.000	1157.30	9975.80
.011273	505.	505.	505.	20	15	0	.00	58.00	10033.80

*SECNO 3.247

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

3.247	3.80	1163.20	.00	.00	1163.80	.60	3.08	.03	1162.00
726.0	7.7	714.3	4.0	4.1	114.3	3.6	70.5	45.7	1162.00
.77	1.90	6.25	1.10	.035	.030	.060	.000	1159.40	9963.29
.003997	490.	490.	490.	3	0	0	.00	52.75	10016.04

*SECNO 3.342
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.342	2.92	1166.02	1166.02	.00	1167.04	1.02	3.10	.13	1166.00
726.0	.0	726.0	.0	.0	89.5	.0	71.7	46.3	1166.00
.78	.00	8.11	.00	.000	.030	.000	.000	1163.10	9974.94
.010913	500.	500.	500.	2	15	0	.00	45.11	10020.06

*SECNO 3.436

Q @ X1 = 3.436 TO X1 = 3.719
Q = 594 CFS

3.436	3.02	1170.72	.00	.00	1171.43	.72	4.36	.03	1170.00
594.0	5.7	586.9	1.3	3.2	86.0	1.3	72.7	46.8	1170.00
.80	1.79	6.83	1.03	.035	.030	.060	.000	1167.70	9981.03
.006968	495.	495.	500.	4	0	0	.00	52.56	10033.59

*SECNO 3.530

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.20

3.530	2.79	1172.69	.00	.00	1172.85	.16	1.36	.06	1172.00
594.0	2.9	507.9	83.1	3.7	148.1	73.8	74.5	47.9	1170.30
.85	.79	3.43	1.13	.035	.030	.060	.000	1169.90	9969.33
.001443	500.	500.	500.	5	0	0	.00	145.34	10114.67

*SECNO 3.625
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.625	1.86	1174.16	1174.16	.00	1174.56	.40	1.51	.07	1174.00
594.0	.1	529.8	64.1	.1	98.3	48.4	76.6	50.0	1173.50
.88	.77	5.39	1.33	.035	.030	.060	.000	1172.30	9963.55
.009750	500.	500.	500.	3	23	0	.00	217.03	10180.58

*SECNO 3.719

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.81

3.719	2.79	1176.79	.00	.00	1177.03	.23	2.45	.02	1176.00
594.0	5.9	497.0	91.1	4.7	117.6	100.3	78.7	52.7	1176.00
.91	1.25	4.23	.91	.035	.030	.060	.000	1174.00	9968.09
.002978	495.	495.	495.	4	0	0	.00	260.00	10228.09

*SECNO 3.813

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 3.813 TO X1 = 4.016

Q = 221 CFS

3.813	1.96	1178.76	1178.76	.00	1179.15	.40	1.99	.05	1180.00
221.0	.0	212.0	8.9	.0	41.0	7.4	80.3	54.6	1179.00
.94	.00	5.17	1.21	.000	.030	.060	.000	1176.80	9986.22
.011982	500.	500.	500.	3	16	0	.00	69.39	10109.02

*SECNO 3.930

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

CAMELBACK ROAD

3.930	2.60	1182.80	.00	.00	1183.05	.26	3.88	.01	1184.00
221.0	.0	215.7	5.3	.0	52.5	6.4	81.1	55.5	1182.00
.98	.00	4.11	.84	.000	.030	.060	.000	1180.20	9986.01
.003892	615.	615.	615.	6	0	0	.00	49.95	10035.96

*SECNO 4.016

APPROXIMATELY 152 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
FOR THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN
CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

4.016	1.75	1184.55	.00	.00	1184.68	.12	1.61	.01	1184.00
221.0	13.6	178.4	29.0	10.5	57.7	32.3	81.9	56.5	1184.00
1.03	1.29	3.09	.90	.035	.030	.060	.000	1182.80	9961.38
.003232	455.	455.	455.	5	0	0	.00	145.22	10106.60

*SECNO 4.086
3280 CROSS SECTION 4.09 EXTENDED .24 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

Q @ X1 = 4.086
Q = 68 CFS

4.086	1.25	1185.55	.00	.00	1185.57	.03	.89	.01	1185.30
68.0	.0	68.0	.0	.0	53.2	.0	82.5	57.4	1186.00
1.11	.00	1.28	.00	.000	.030	.000	.000	1184.30	9965.00
.001133	370.	370.	370.	1	0	0	.00	78.82	10043.82

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.152
3280 CROSS SECTION 4.15 EXTENDED .17 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.26

MEDLOCK DRIVE
Q = 187 CFS

4.152	2.66	1185.66	.00	.00	1185.68	.01	.11	.00	1185.50
187.0	.0	166.8	20.2	.0	164.0	62.4	83.7	58.5	1184.00
1.21	.00	1.02	.32	.000	.030	.060	.000	1183.00	9930.00
.000218	350.	350.	350.	3	0	0	.00	174.94	10104.94

PROFILE FOR STREAM JACKRABBIT TRAIL WASH (

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1037.	1057.	1077.	1097.	1117.	1137.	1157.	1177.	1197.	1217.
SECNO	CUMDIS									
.00	0.	IE M	.	.	.	.	.	.	.	.	.	.
	50.	IE M	.	.	.	.	.	.	.	.	.	.
	100.	IE M	.	.	.	.	.	.	.	.	.	.
	150.	CWEM	.	.	.	.	.	.	.	.	.	.
	200.	CWEM	.	.	.	.	.	.	.	.	.	.
	250.	CIEM	.	.	.	.	.	.	.	.	.	.
	300.	CIEM	.	.	.	.	.	.	.	.	.	.
	350.	CIEM	.	.	.	.	.	.	.	.	.	.
.07	400.	CIE M	.	.	.	.	.	.	.	.	.	.
	450.	CIWEM	.	.	.	.	.	.	.	.	.	.
	500.	C WEM	.	.	.	.	.	.	.	.	.	.
	550.	C IEM	.	.	.	.	.	.	.	.	.	.
	600.	C IEM	.	.	.	.	.	.	.	.	.	.
	650.	C IEM	.	.	.	.	.	.	.	.	.	.
	700.	C IEM	.	.	.	.	.	.	.	.	.	.
.14	750.	C IWEM	.	.	.	.	.	.	.	.	.	.
	800.	C I EM	.	.	.	.	.	.	.	.	.	.
	850.	C IEM	.	.	.	.	.	.	.	.	.	.
	900.	C IEM	.	.	.	.	.	.	.	.	.	.
	950.	C IE M	.	.	.	.	.	.	.	.	.	.
	1000.	C IE M	.	.	.	.	.	.	.	.	.	.
	1050.	C IE M	.	.	.	.	.	.	.	.	.	.
	1100.	C IWE M	.	.	.	.	.	.	.	.	.	.
	1150.	C IE M	.	.	.	.	.	.	.	.	.	.
	1200.	C IE M	.	.	.	.	.	.	.	.	.	.
.23	1250.	. IE M	.	.	.	.	.	.	.	.	.	.
	1300.	. IE M	.	.	.	.	.	.	.	.	.	.
	1350.	. IE M	.	.	.	.	.	.	.	.	.	.
	1400.	. IWEM	.	.	.	.	.	.	.	.	.	.
	1450.	. ILEM	.	.	.	.	.	.	.	.	.	.
	1500.	. I EM	.	.	.	.	.	.	.	.	.	.
	1550.	. I EM	.	.	.	.	.	.	.	.	.	.
	1600.	. I WE	.	.	.	.	.	.	.	.	.	.
.31	1650.	. I E	.	.	.	.	.	.	.	.	.	.
	1700.	C I EM	.	.	.	.	.	.	.	.	.	.
	1750.	C I WE	.	.	.	.	.	.	.	.	.	.
	1800.	C I WEM	.	.	.	.	.	.	.	.	.	.
.35	1850.	C IREL	.	.	.	.	.	.	.	.	.	.
	1900.	C IREL	.	.	.	.	.	.	.	.	.	.
	1950.	C IREL	.	.	.	.	.	.	.	.	.	.
	2000.	C IREL	.	.	.	.	.	.	.	.	.	.
	2050.	C IREL	.	.	.	.	.	.	.	.	.	.
	2100.	C I EL	.	.	.	.	.	.	.	.	.	.
	2150.	C IWE	.	.	.	.	.	.	.	.	.	.
	2200.	C IWE	.	.	.	.	.	.	.	.	.	.
	2250.	C IRE	.	.	.	.	.	.	.	.	.	.
	2300.	C IRE	.	.	.	.	.	.	.	.	.	.
.44	2350.	C I EM	.	.	.	.	.	.	.	.	.	.
	2400.	C I E	.	.	.	.	.	.	.	.	.	.
	2450.	C IE	.	.	.	.	.	.	.	.	.	.

	2500.	C	IE.	.	.	.	.	.	.	.	.	.
	2550.	C	IWE	.	.	.	.	.	.	.	.	.
	2600.	C	IWE	.	.	.	.	.	.	.	.	.
.50	2650.	C	ILE	.	.	.	.	.	.	.	.	.
	2700.	C	ILE	.	.	.	.	.	.	.	.	.
	2750.	C	ILE	.	.	.	.	.	.	.	.	.
	2800.	C	ILE	.	.	.	.	.	.	.	.	.
	2850.	C	ILE	.	.	.	.	.	.	.	.	.
	2900.	C	ILE	.	.	.	.	.	.	.	.	.
	2950.	C	ILE	.	.	.	.	.	.	.	.	.
.57	3000.	C	I E	.	.	.	.	.	.	.	.	.
	3050.	C	IWE	.	.	.	.	.	.	.	.	.
	3100.	C	IWE	.	.	.	.	.	.	.	.	.
	3150.	C	ILE	.	.	.	.	.	.	.	.	.
	3200.	C	ILE	.	.	.	.	.	.	.	.	.
.61	3250.	.	I.E	.	.	.	.	.	.	.	.	.
	3300.	.	IWE	.	.	.	.	.	.	.	.	.
	3350.	.	IWE	.	.	.	.	.	.	.	.	.
	3400.	.	ILE	.	.	.	.	.	.	.	.	.
	3450.	.	ILE	.	.	.	.	.	.	.	.	.
	3500.	.	ILE	.	.	.	.	.	.	.	.	.
.67	3550.	.	I WE	.	.	.	.	.	.	.	.	.
	3600.	.	.IWE	.	.	.	.	.	.	.	.	.
	3650.	.	.ILE	.	.	.	.	.	.	.	.	.
	3700.	.	.I E	.	.	.	.	.	.	.	.	.
	3750.	.	. IWE	.	.	.	.	.	.	.	.	.
	3800.	.	. IWE	.	.	.	.	.	.	.	.	.
.72	3850.	.	. IWE	.	.	.	.	.	.	.	.	.
	3900.	C	. I E	.	.	.	.	.	.	.	.	.
	3950.	C	. I EM	.	.	.	.	.	.	.	.	.
	4000.	C	. IEL	.	.	.	.	.	.	.	.	.
.76	4050.	C	. IWE	.	.	.	.	.	.	.	.	.
.77	4100.	C	. I ELM	.	.	.	.	.	.	.	.	.
	4150.	C	. I ELM	.	.	.	.	.	.	.	.	.
.79	4200.	.	. I E M	.	.	.	.	.	.	.	.	.
	4250.	.	. I E M	.	.	.	.	.	.	.	.	.
	4300.	.	. IWEM	.	.	.	.	.	.	.	.	.
.82	4350.	.	. IWEM	.	.	.	.	.	.	.	.	.
	4400.	C	. IWEM	.	.	.	.	.	.	.	.	.
	4450.	C	. IWEL	.	.	.	.	.	.	.	.	.
.85	4500.	C	. I EL	.	.	.	.	.	.	.	.	.
.86	4550.	C	. I ELR	.	.	.	.	.	.	.	.	.
	4600.	C	. IWER	.	.	.	.	.	.	.	.	.
	4650.	C	. I ER	.	.	.	.	.	.	.	.	.
	4700.	C	. I ER	.	.	.	.	.	.	.	.	.
	4750.	C	. IWE	.	.	.	.	.	.	.	.	.
	4800.	C	. ILE	.	.	.	.	.	.	.	.	.
.91	4850.	.	. IWE.	.	.	.	.	.	.	.	.	.
	4900.	.	. IWE.	.	.	.	.	.	.	.	.	.
	4950.	.	. I EM	.	.	.	.	.	.	.	.	.
	5000.	.	. I EL	.	.	.	.	.	.	.	.	.
	5050.	.	. IE.L	.	.	.	.	.	.	.	.	.
.96	5100.	.	. IWELR	.	.	.	.	.	.	.	.	.
.97	5150.	C	. I ELR	.	.	.	.	.	.	.	.	.
	5200.	C	. I WEM	.	.	.	.	.	.	.	.	.
	5250.	C	. IWEM	.	.	.	.	.	.	.	.	.
	5300.	C	. I.EM	.	.	.	.	.	.	.	.	.
	5350.	C	. I.EM	.	.	.	.	.	.	.	.	.
1.02	5400.	.	. I.EM	.	.	.	.	.	.	.	.	.
	5450.	.	. I.WE	.	.	.	.	.	.	.	.	.
	5500.	.	. ILE	.	.	.	.	.	.	.	.	.
	5550.	.	. ILEM	.	.	.	.	.	.	.	.	.

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      5600.  .     .     ILWE   .     .     .     .     .     .     .     .
1.06  5650.  .     .     I WE   .     .     .     .     .     .     .     .
      5700.  .     .     .IWE   .     .     .     .     .     .     .     .
      5750.  .     .     .ILE   .     .     .     .     .     .     .     .
      5800.  .     .     .ILE   .     .     .     .     .     .     .     .
      5850.  .     .     .ILWE  .     .     .     .     .     .     .     .
      5900.  .     .     . IWE  .     .     .     .     .     .     .     .
      5950.  .     .     . ILE  .     .     .     .     .     .     .     .
      6000.  .     .     . ILE  .     .     .     .     .     .     .     .
      6050.  .     .     . ILE  .     .     .     .     .     .     .     .
      6100.  .     .     .  IWE .     .     .     .     .     .     .     .
1.16  6150.  .     .     .  IWE .     .     .     .     .     .     .     .
      6200.  .     .     .  ILE .     .     .     .     .     .     .     .
      6250.  .     .     .  ILE .     .     .     .     .     .     .     .
      6300.  .     .     .  ILWE.     .     .     .     .     .     .     .
      6350.  .     .     .  I WE.     .     .     .     .     .     .     .
      6400.  .     .     .   ILE.     .     .     .     .     .     .     .
      6450.  .     .     .   ILE.     .     .     .     .     .     .     .
      6500.  .     .     .   I WE.     .     .     .     .     .     .     .
      6550.  .     .     .   I WE.     .     .     .     .     .     .     .
      6600.  .     .     .   I LE.     .     .     .     .     .     .     .
1.25  6650.  .     .     .   I  E.     .     .     .     .     .     .     .
      6700.  C     .     .    I WE.     .     .     .     .     .     .     .
      6750.  C     .     .    I WE.     .     .     .     .     .     .     .
      6800.  C     .     .    I WE.     .     .     .     .     .     .     .
      6850.  C     .     .     ILE.     .     .     .     .     .     .     .
      6900.  C     .     .     I E.     .     .     .     .     .     .     .
      6950.  C     .     .     I E.     .     .     .     .     .     .     .
      7000.  C     .     .     I WE.    .     .     .     .     .     .     .
      7050.  C     .     .      IWE.    .     .     .     .     .     .     .
      7100.  C     .     .      ILE.    .     .     .     .     .     .     .
1.35  7150.  C     .     .      I E.    .     .     .     .     .     .     .
      7200.  C     .     .      I E.    .     .     .     .     .     .     .
      7250.  C     .     .       IWE    .     .     .     .     .     .     .
      7300.  C     .     .       IWE    .     .     .     .     .     .     .
      7350.  C     .     .       ILE    .     .     .     .     .     .     .
      7400.  C     .     .       I E    .     .     .     .     .     .     .
      7450.  C     .     .       I E    .     .     .     .     .     .     .
      7500.  C     .     .        IWE   .     .     .     .     .     .     .
      7550.  C     .     .        ILE   .     .     .     .     .     .     .
      7600.  C     .     .        ILE   .     .     .     .     .     .     .
1.44  7650.  .     .     .        I.E   .     .     .     .     .     .     .
      7700.  .     .     .         IWE  .     .     .     .     .     .     .
      7750.  .     .     .         IWE  .     .     .     .     .     .     .
      7800.  .     .     .         ILE  .     .     .     .     .     .     .
      7850.  .     .     .         ILE  .     .     .     .     .     .     .
      7900.  .     .     .         I WE .     .     .     .     .     .     .
      7950.  .     .     .         .IWE .     .     .     .     .     .     .
      8000.  .     .     .         .ILE .     .     .     .     .     .     .
      8050.  .     .     .         .ILE .     .     .     .     .     .     .
      8100.  .     .     .         .ILWE.     .     .     .     .     .     .
1.54  8150.  .     .     .         . IWE.     .     .     .     .     .     .
      8200.  .     .     .         . ILE.     .     .     .     .     .     .
      8250.  .     .     .         . ILE.     .     .     .     .     .     .
      8300.  .     .     .         . ILE.     .     .     .     .     .     .
      8350.  .     .     .         .  IWE     .     .     .     .     .     .
      8400.  .     .     .         .  IWE     .     .     .     .     .     .
      8450.  .     .     .         .  ILE     .     .     .     .     .     .
      8500.  .     .     .         .  ILE     .     .     .     .     .     .
      8550.  .     .     .         .   IWE    .     .     .     .     .     .
      8600.  .     .     .         .   IWE    .     .     .     .     .     .
1.63  8650.  .     .     .         .   ILE    .     .     .     .     .     .
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     8700.  .         .         .         .  ILE   .         .         .         .         .         .         .
     8750.  .         .         .         .   IWE  .         .         .         .         .         .         .
     8800.  .         .         .         .   IWE  .         .         .         .         .         .         .
     8850.  .         .         .         .   IRE  .         .         .         .         .         .         .
     8900.  .         .         .         .   ILE  .         .         .         .         .         .         .
     8950.  .         .         .         .    IWE .         .         .         .         .         .         .
     9000.  .         .         .         .    IWE .         .         .         .         .         .         .
     9050.  .         .         .         .    IRE .         .         .         .         .         .         .
     9100.  .         .         .         .    IRE .         .         .         .         .         .         .
1.73 9150.  .         .         .         .     IWE.         .         .         .         .         .         .
     9200.  .         .         .         .     IWE.         .         .         .         .         .         .
     9250.  .         .         .         .     IRE.         .         .         .         .         .         .
     9300.  .         .         .         .     IRE.         .         .         .         .         .         .
     9350.  .         .         .         .     ILE.         .         .         .         .         .         .
     9400.  .         .         .         .      IWE         .         .         .         .         .         .
     9450.  .         .         .         .      IWE         .         .         .         .         .         .
     9500.  .         .         .         .      ILE         .         .         .         .         .         .
     9550.  .         .         .         .      ILE         .         .         .         .         .         .
1.82 9600.  .         .         .         .       IWE        .         .         .         .         .         .
     9650.  .         .         .         .       IWE        .         .         .         .         .         .
     9700.  .         .         .         .       ILE        .         .         .         .         .         .
     9750.  .         .         .         .       ILE        .         .         .         .         .         .
     9800.  .         .         .         .       ILWE       .         .         .         .         .         .
     9850.  .         .         .         .       I.WE       .         .         .         .         .         .
     9900.  .         .         .         .        IWE       .         .         .         .         .         .
     9950.  .         .         .         .        ILE       .         .         .         .         .         .
    10000.  .         .         .         .        ILE       .         .         .         .         .         .
    10050.  .         .         .         .        ILWE      .         .         .         .         .         .
1.91 10100. .         .         .         .        I WE      .         .         .         .         .         .
    10150.  .         .         .         .        I WE      .         .         .         .         .         .
    10200.  .         .         .         .        .ILE      .         .         .         .         .         .
    10250.  .         .         .         .        .ILE      .         .         .         .         .         .
    10300.  .         .         .         .        .ILE      .         .         .         .         .         .
    10350.  .         .         .         .        .I WE     .         .         .         .         .         .
    10400.  .         .         .         .        .I WE     .         .         .         .         .         .
    10450.  .         .         .         .        .I LE     .         .         .         .         .         .
    10500.  .         .         .         .        . ILE     .         .         .         .         .         .
    10550.  .         .         .         .        . ILE     .         .         .         .         .         .
2.01 10600. .         .         .         .        . I WE    .         .         .         .         .         .
    10650.  .         .         .         .        . I WE    .         .         .         .         .         .
    10700.  .         .         .         .        .  ILE    .         .         .         .         .         .
    10750.  .         .         .         .        .  ILE    .         .         .         .         .         .
    10800.  .         .         .         .        .  I WE   .         .         .         .         .         .
    10850.  .         .         .         .        .  I LE   .         .         .         .         .         .
    10900.  .         .         .         .        .   ILE   .         .         .         .         .         .
    10950.  .         .         .         .        .   I WE  .         .         .         .         .         .
    11000.  .         .         .         .        .   I WE  .         .         .         .         .         .
    11050.  .         .         .         .        .   I LE  .         .         .         .         .         .
    11100.  .         .         .         .        .    ILE  .         .         .         .         .         .
2.11 11150. .         .         .         .        .    I WE .         .         .         .         .         .
    11200.  C         .         .         .        .    I WE .         .         .         .         .         .
    11250.  C         .         .         .        .    I WE .         .         .         .         .         .
    11300.  C         .         .         .        .    I WE .         .         .         .         .         .
    11350.  C         .         .         .        .    I LE .         .         .         .         .         .
    11400.  C         .         .         .        .     ILE .         .         .         .         .         .
    11450.  C         .         .         .        .     ILE .         .         .         .         .         .
    11500.  C         .         .         .        .     ILWE.         .         .         .         .         .
    11550.  C         .         .         .        .     ILWE.         .         .         .         .         .
    11600.  C         .         .         .        .     ILWE.         .         .         .         .         .
2.20 11650. C         .         .         .        .     I WE.         .         .         .         .         .
    11700.  C         .         .         .        .     I LE.         .         .         .         .         .
    11750.  C         .         .         .        .      ILE.         .         .         .         .         .
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      11800.  C        .         .         .         .    ILE.        .         .         .         .         .
      11850.  C        .         .         .         .    ILWE        .         .         .         .         .
      11900.  C        .         .         .         .    I WE        .         .         .         .         .
      11950.  C        .         .         .         .     ILE        .         .         .         .         .
      12000.  C        .         .         .         .     ILE        .         .         .         .         .
      12050.  C        .         .         .         .     ILE        .         .         .         .         .
      12100.  C        .         .         .         .     ILWE       .         .         .         .         .
 2.30 12150.  .        .         .         .         .     I WE       .         .         .         .         .
      12200.  C        .         .         .         .      IWE       .         .         .         .         .
      12250.  C        .         .         .         .      ILE       .         .         .         .         .
      12300.  C        .         .         .         .      ILE       .         .         .         .         .
      12350.  C        .         .         .         .      ILE       .         .         .         .         .
      12400.  C        .         .         .         .      ILE       .         .         .         .         .
      12450.  C        .         .         .         .      ILWE      .         .         .         .         .
      12500.  C        .         .         .         .       IWE      .         .         .         .         .
      12550.  C        .         .         .         .       IWE      .         .         .         .         .
      12600.  C        .         .         .         .       I E      .         .         .         .         .
 2.39 12650.  C        .         .         .         .       ILE      .         .         .         .         .
      12700.  C        .         .         .         .       ILE      .         .         .         .         .
      12750.  C        .         .         .         .       ILE      .         .         .         .         .
      12800.  C        .         .         .         .       .IWE     .         .         .         .         .
      12850.  C        .         .         .         .       .IWE     .         .         .         .         .
      12900.  C        .         .         .         .       .ILE     .         .         .         .         .
      12950.  C        .         .         .         .       .ILE     .         .         .         .         .
      13000.  C        .         .         .         .       .ILE     .         .         .         .         .
      13050.  C        .         .         .         .       .I E     .         .         .         .         .
      13100.  .        C         .         .         .       . IWE    .         .         .         .         .
 2.48 13150.  .        .         .         .         .       . IWE    .         .         .         .         .
      13200.  C        .         .         .         .       . IWE    .         .         .         .         .
      13250.  C        .         .         .         .       . ILE    .         .         .         .         .
      13300.  C        .         .         .         .       . ILE    .         .         .         .         .
      13350.  C        .         .         .         .       . I E    .         .         .         .         .
      13400.  C        .         .         .         .       . I E    .         .         .         .         .
      13450.  C        .         .         .         .       . I E    .         .         .         .         .
      13500.  C        .         .         .         .       . I WE   .         .         .         .         .
      13550.  C        .         .         .         .       . I WE   .         .         .         .         .
 2.58 13600.  C        .         .         .         .       .  ILE   .         .         .         .         .
      13650.  C        .         .         .         .       .  ILE   .         .         .         .         .
      13700.  C        .         .         .         .       .  I E   .         .         .         .         .
      13750.  C        .         .         .         .       .  I E   .         .         .         .         .
      13800.  C        .         .         .         .       .  I E   .         .         .         .         .
      13850.  C        .         .         .         .       .  I E   .         .         .         .         .
      13900.  C        .         .         .         .       .  I E   .         .         .         .         .
      13950.  C        .         .         .         .       .  I E   .         .         .         .         .
      14000.  C        .         .         .         .       .  I E   .         .         .         .         .
      14050.  C        .         .         .         .       .  I E   .         .         .         .         .
 2.67 14100.  C        .         .         .         .       .   IWE  .         .         .         .         .
      14150.  C        .         .         .         .       .   IWE  .         .         .         .         .
      14200.  C        .         .         .         .       .   ILE  .         .         .         .         .
      14250.  C        .         .         .         .       .   ILE  .         .         .         .         .
      14300.  C        .         .         .         .       .   I E  .         .         .         .         .
      14350.  C        .         .         .         .       .   I E  .         .         .         .         .
      14400.  C        .         .         .         .       .   I E  .         .         .         .         .
      14450.  C        .         .         .         .       .    IE  .         .         .         .         .
      14500.  C        .         .         .         .       .    IEM .         .         .         .         .
      14550.  C        .         .         .         .       .    IWE .         .         .         .         .
 2.77 14600.  C        .         .         .         .       .    IWE .         .         .         .         .
      14650.  C        .         .         .         .       .    I E .         .         .         .         .
      14700.  C        .         .         .         .       .    I E .         .         .         .         .
      14750.  C        .         .         .         .       .    I E .         .         .         .         .
      14800.  C        .         .         .         .       .     IEM .        .         .         .         .
      14850.  C        .         .         .         .       .     IEM .        .         .         .         .
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     14900.  C          .         .         .         .         .    IEM .         .         .         .         .
     14950.  C          .         .         .         .         .    IEM .         .         .         .         .
     15000.  C          .         .         .         .         .    IWE .         .         .         .         .
     15050.  C          .         .         .         .         .    IWE .         .         .         .         .
2.86 15100.  C          .         .         .         .         .    IRE .         .         .         .         .
     15150.  C          .         .         .         .         .    IREM.         .         .         .         .
     15200.  C          .         .         .         .         .    IREM.         .         .         .         .
     15250.  C          .         .         .         .         .     IEM.         .         .         .         .
     15300.  C          .         .         .         .         .     IWEM         .         .         .         .
     15350.  C          .         .         .         .         .     IWEM         .         .         .         .
2.91 15400.  .          .         .         .         .         .     I EM         .         .         .         .
     15450.  C          .         .         .         .         .     I EM         .         .         .         .
     15500.  C          .         .         .         .         .     I E.M        .         .         .         .
     15550.  C          .         .         .         .         .      IWEM        .         .         .         .
     15600.  C          .         .         .         .         .      IWEM        .         .         .         .
     15650.  C          .         .         .         .         .      IREM        .         .         .         .
2.97 15700.  C          .         .         .         .         .       IELM       .         .         .         .
     15750.  C          .         .         .         .         .       IELM       .         .         .         .
     15800.  C          .         .         .         .         .       IELM       .         .         .         .
     15850.  C          .         .         .         .         .       IELM       .         .         .         .
     15900.  C          .         .         .         .         .       IELM       .         .         .         .
     15950.  C          .         .         .         .         .       IELM       .         .         .         .
     16000.  C          .         .         .         .         .       IELM       .         .         .         .
     16050.  C          .         .         .         .         .       IWEM       .         .         .         .
     16100.  C          .         .         .         .         .       IREM       .         .         .         .
3.06 16150.  C          .         .         .         .         .       IREM       .         .         .         .
     16200.  C          .         .         .         .         .       IREM       .         .         .         .
     16250.  C          .         .         .         .         .       IREM       .         .         .         .
     16300.  C          .         .         .         .         .       IREM       .         .         .         .
     16350.  C          .         .         .         .         .       IREM       .         .         .         .
     16400.  C          .         .         .         .         .        IEM       .         .         .         .
     16450.  C          .         .         .         .         .        IEM       .         .         .         .
     16500.  C          .         .         .         .         .        IEM       .         .         .         .
     16550.  C          .         .         .         .         .        IWE       .         .         .         .
     16600.  C          .         .         .         .         .        IWE       .         .         .         .
     16650.  .          .         .         .         .         .    C   IWEM      .         .         .         .
3.15 16700.  .          .         .         .         .         .        IWEM      .         .         .         .
     16750.  . C        .         .         .         .         .        I EM      .         .         .         .
     16800.  C          .         .         .         .         .        I EM      .         .         .         .
     16850.  C          .         .         .         .         .        I EM      .         .         .         .
     16900.  C          .         .         .         .         .        .IEM      .         .         .         .
     16950.  C          .         .         .         .         .        .IWE      .         .         .         .
     17000.  C          .         .         .         .         .        .IWE      .         .         .         .
     17050.  C          .         .         .         .         .        .ILE      .         .         .         .
     17100.  C          .         .         .         .         .        .ILE      .         .         .         .
3.25 17150.  C          .         .         .         .         .        .I E      .         .         .         .
     17200.  C          .         .         .         .         .        .I WE     .         .         .         .
     17250.  C          .         .         .         .         .        . IWE     .         .         .         .
     17300.  C          .         .         .         .         .        . ILE     .         .         .         .
     17350.  C          .         .         .         .         .        . ILE     .         .         .         .
     17400.  C          .         .         .         .         .        . I EM    .         .         .         .
     17450.  C          .         .         .         .         .        . I EM    .         .         .         .
     17500.  C          .         .         .         .         .        . I WE    .         .         .         .
     17550.  C          .         .         .         .         .        .  IWE    .         .         .         .
     17600.  .     C    .         .         .         .         .        .  IWE    .         .         .         .
3.34 17650.  .          .         .         .         .         .        .  I EM   .         .         .         .
     17700.  .     C    .         .         .         .         .        .  I EM   .         .         .         .
     17750.  C          .         .         .         .         .        .   IEM   .         .         .         .
     17800.  C          .         .         .         .         .        .   IWE   .         .         .         .
     17850.  C          .         .         .         .         .        .   IWE   .         .         .         .
     17900.  C          .         .         .         .         .        .   I E   .         .         .         .
     17950.  C          .         .         .         .         .        .   I E   .         .         .         .
```

	18000.	C	.	.	.	.	.	.	IWE	.	.	.	.
	18050.	C	.	.	.	.	.	.	IWE	.	.	.	.
	18100.	C	.	.	.	.	.	.	ILE	.	.	.	.
3.44	18150.	C	.	.	.	.	.	.	I E	.	.	.	.
	18200.	C	.	.	.	.	.	.	I E	.	.	.	.
	18250.	C	.	.	.	.	.	.	IE	.	.	.	.
	18300.	C	.	.	.	.	.	.	IE	.	.	.	.
	18350.	C	.	.	.	.	.	.	IE	.	.	.	.
	18400.	C	.	.	.	.	.	.	IWE	.	.	.	.
	18450.	C	.	.	.	.	.	.	IWE	.	.	.	.
	18500.	C	.	.	.	.	.	.	ILE	.	.	.	.
	18550.	C	.	.	.	.	.	.	ILE	.	.	.	.
	18600.	C	.	.	.	.	.	.	ILE	.	.	.	.
3.53	18650.	C	.	.	.	.	.	.	IRE	.	.	.	.
	18700.	C	.	.	.	.	.	.	IE	.	.	.	.
	18750.	C	.	.	.	.	.	.	IE	.	.	.	.
	18800.	C	.	.	.	.	.	.	IE	.	.	.	.
	18850.	C	.	.	.	.	.	.	IEM.		.	.	.
	18900.	C	.	.	.	.	.	.	IEM.		.	.	.
	18950.	C	.	.	.	.	.	.	IEM.		.	.	.
	19000.	C	.	.	.	.	.	.	IWE.		.	.	.
	19050.	C	.	.	.	.	.	.	IWE.		.	.	.
	19100.	.	C	.	.	.	.	.	IE.		.	.	.
3.63	19150.	.	.	.	.	.	.	.	IE.		.	.	.
	19200.	.	C.	.	.	.	.	.	IE.		.	.	.
	19250.	C	.	.	.	.	.	.	IE.		.	.	.
	19300.	C	.	.	.	.	.	.	IE.		.	.	.
	19350.	C	.	.	.	.	.	.	IE.		.	.	.
	19400.	C	.	.	.	.	.	.	IEM		.	.	.
	19450.	C	.	.	.	.	.	.	IWE		.	.	.
	19500.	C	.	.	.	.	.	.	ILE		.	.	.
	19550.	C	.	.	.	.	.	.	ILE		.	.	.
	19600.	C	.	.	.	.	.	.	ILE		.	.	.
3.72	19650.	C	.	.	.	.	.	.	IE		.	.	.
	19700.	C	.	.	.	.	.	.	IE		.	.	.
	19750.	C	.	.	.	.	.	.	IE		.	.	.
	19800.	C	.	.	.	.	.	.	IEM		.	.	.
	19850.	C	.	.	.	.	.	.	IEM		.	.	.
	19900.	C	.	.	.	.	.	.	IWE		.	.	.
	19950.	C	.	.	.	.	.	.	IWE		.	.	.
	20000.	C	.	.	.	.	.	.	I.E		.	.	.
	20050.	C	.	.	.	.	.	.	IEM		.	.	.
	20100.	.	. C	.	.	.	.	.	IEM		.	.	.
3.81	20150.	.	.	.	.	.	.	.	IEL		.	.	.
	20200.	.	.	. C	.	.	.	.	IEL		.	.	.
	20250.	C	.	.	.	.	.	.	IEL		.	.	.
	20300.	C	.	.	.	.	.	.	IWEM		.	.	.
	20350.	C	.	.	.	.	.	.	IREM		.	.	.
	20400.	C	.	.	.	.	.	.	.IEM		.	.	.
	20450.	C	.	.	.	.	.	.	.IEM		.	.	.
	20500.	C	.	.	.	.	.	.	.IEL		.	.	.
	20550.	C	.	.	.	.	.	.	.IEL		.	.	.
	20600.	C	.	.	.	.	.	.	.IWE		.	.	.
	20650.	C	.	.	.	.	.	.	.IRE		.	.	.
	20700.	C	.	.	.	.	.	.	.IREM		.	.	.
3.93	20750.	C	.	.	.	.	.	.	. IEL		.	.	.
	20800.	C	.	.	.	.	.	.	. IEL		.	.	.
	20850.	C	.	.	.	.	.	.	. IEL		.	.	.
	20900.	C	.	.	.	.	.	.	. IEL		.	.	.
	20950.	C	.	.	.	.	.	.	. IEL		.	.	.
	21000.	C	.	.	.	.	.	.	. IEL		.	.	.
	21050.	C	.	.	.	.	.	.	. IWE		.	.	.

	21100.	C	.	.	.	.	.	.	.	IE	.	.	.
	21150.	C	.	.	.	.	.	.	.	IE	.	.	.
	21200.	C	.	.	.	.	.	.	.	IE	.	.	.
4.02	21250.	C	.	.	.	.	.	.	.	IE	.	.	.
	21300.	C	.	.	.	.	.	.	.	IE	.	.	.
	21350.	C	.	.	.	.	.	.	.	IE	.	.	.
	21400.	C	.	.	.	.	.	.	.	IE	.	.	.
	21450.	C	.	.	.	.	.	.	.	IE	.	.	.
	21500.	C	.	.	.	.	.	.	.	IE	.	.	.
	21550.	C	.	.	.	.	.	.	.	E	.	.	.
4.09	21600.	C	.	.	.	.	.	.	.	ER	.	.	.
	21650.	C	.	.	.	.	.	.	.	E	.	.	.
	21700.	C	.	.	.	.	.	.	.	IE	.	.	.
	21750.	C	.	.	.	.	.	.	.	IE	.	.	.
	21800.	C	.	.	.	.	.	.	.	IE	.	.	.
	21850.	C	.	.	.	.	.	.	.	IE	.	.	.
	21900.	C	.	.	.	.	.	.	.	IE	.	.	.
4.15	21950.	C	.	.	.	.	.	.	.	IE	.	.	.

T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODWAY RUN FILE: 4.H2I
T3 JACKRABBIT TRAIL WASH (WASH 4) - WHITE TANK STRUCTURE #4 NORTH TO
T4 MEDLOCK DRIVE.

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0	0	0	0	1038.61	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	0	0	0	0

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CCHV= .100 CEHV= .300
*SECNO .000

3470 ENCROACHMENT STATIONS= 9907.0 10159.1 TYPE= 1 TARGET= 252.120
DISCHARGES ARE COMPUTED IN THE SPLIT FLOW ANALYSIS RUN
FOR JACKRABBIT TRAIL AND IS INCLUDED IN THIS SUBMITTAL FOR REVIEW.

MATCH FLOODPLAIN AND FLOODWAY INTO 100-YEAR PONDING WSEL BEHIND WHITE
TANKS STRUCTURE #4.

Q @ X1 = 0.000 TO X1 = 0.348
Q = 1093 CFS

.000	1.61	1038.61	.00	1038.61	1038.87	.26	.00	.00	1038.00
1093.0	1.6	1087.8	3.6	.9	266.4	2.8	.0	.0	1038.00
.00	1.71	4.08	1.30	.030	.030	.040	.000	1037.00	9906.97
05913	0.	0.	0.	0	0	0	.00	252.12	10159.09

*SECNO .070

3470 ENCROACHMENT STATIONS= 9911.0 10051.5 TYPE= 1 TARGET= 140.580

.070	1.66	1041.16	.00	1041.16	1041.73	.57	2.76	.09	1040.00
1093.0	7.6	1068.8	16.7	2.3	174.8	6.6	1.9	1.7	1040.00
.02	3.29	6.11	2.52	.030	.030	.040	.000	1039.50	9910.98
.009740	370.	370.	370.	3	0	0	.00	140.50	10051.48

*SECNO .142

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3470 ENCROACHMENT STATIONS= 9942.8 10105.3 TYPE= 1 TARGET= 162.521

.142	2.32	1043.82	.00	1043.81	1044.11	.29	2.36	.03	100000.00
1093.0	.0	1093.0	.0	.0	251.7	.0	3.8	3.0	100000.00
.04	.00	4.34	.00	.000	.030	.000	.000	1041.50	9942.80
.004290	380.	380.	380.	3	0	0	.00	162.52	10105.32

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .228

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67


3470 ENCROACHMENT STATIONS=     9940.7   10151.4  TYPE=      1  TARGET=      210.690
     .228      1.99   1046.49   1046.43   1046.49   1046.97       .48      2.80       .06   1046.00
   1093.0       2.0    1073.2      17.8       1.0     192.1      12.6       6.2       4.9   1046.00
     .06      1.89      5.59      1.42      .030      .030      .040      .000   1044.50   9940.72
  .009563      450.      455.      450.         6        15         0       .00    210.64  10151.36


CCHV=     .100 CEHV=     .300
*SECNO  .312
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9964.5   10109.7  TYPE=      1  TARGET=      145.110

          CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE.
          MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NOTRH SIDE.

     .312      4.61   1050.61   1050.61   1050.55   1051.41       .80      3.35       .10   1050.00
   1093.0       3.4    1050.0      39.6       1.8     143.4      28.2       8.1       6.8   1050.00
     .08      1.85      7.32      1.40      .030      .030      .040      .000   1046.00   9964.54
  .006182      420.      440.      460.         3        20         0       .00    145.11  10109.65


*SECNO  .348

3470 ENCROACHMENT STATIONS=     9969.9   10091.4  TYPE=      1  TARGET=      121.490
     .348      3.98   1051.98       .00   1052.03   1052.53       .55      1.10       .02 100000.00
   1093.0        .0     941.8     151.2        .0     148.6      58.6       9.1       7.5   1050.00
     .09       .00      6.34      2.58      .000      .030      .040      .000   1048.00   9970.18
  .004905      160.      190.      300.         2         0         0       .00    119.11  10089.29


CCHV=     .100 CEHV=     .300
*SECNO  .440

3470 ENCROACHMENT STATIONS=     9974.9   10065.3  TYPE=      1  TARGET=       90.420

          APPROXIMATELY 250 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
```

IN THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN
CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

Q @ X1 = 0.440 TO X1 = 0.499
Q = 963 CFS

.440	2.92	1054.72	.00	1054.69	1055.38	.66	2.82	.03	1054.00
963.0	4.3	952.3	6.4	2.0	145.7	3.9	11.0	8.6	1054.00
.11	2.18	6.54	1.65	.030	.030	.040	.000	1051.80	9974.86
.007203	510.	490.	410.	2	0	0	.00	90.42	10065.28

*SECNO .499

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

3470 ENCROACHMENT STATIONS= 9955.0 10031.0 TYPE= 1 TARGET= 75.970

MARICOPA COUNTY,UNINCORPORATED AREAS ON THE SOUTH SIDE OF ROOSEVELT
ROAD "EXTENDED"
CITY OF BUCKEYE CORPORATE LIMITS ON THE NORTH SIDE OF ROOSEVELT
ROAD "EXTENDED"

.499	3.40	1056.30	.00	1056.31	1056.65	.35	1.24	.03	1105.50
963.0	.0	962.9	.1	.0	202.6	.1	12.3	9.2	1056.00
.13	.00	4.75	.51	.000	.030	.040	.000	1052.90	9955.00
.002540	325.	310.	225.	2	0	0	.00	75.92	10030.92

*SECNO .566

3470 ENCROACHMENT STATIONS= 9940.3 10035.8 TYPE= 1 TARGET= 95.489

Q @ X1 = 0.566 TO X1 = 1.254
Q = 1186 CFS(AVERAGE DISCHARGE OVER THE NEXT UPSTREAM CROSS SECTIONS)

.566	3.36	1057.16	.00	1057.16	1057.55	.39	.89	.01	1056.00
1186.0	9.6	1172.1	4.3	5.6	233.4	3.4	14.1	9.9	1056.00
.15	1.71	5.02	1.27	.030	.030	.040	.000	1053.80	9940.32
.002478	350.	355.	350.	3	0	0	.00	95.49	10035.81

*SECNO .610

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9957.2   10039.6  TYPE=      1  TARGET=      82.370
      .610      2.86   1058.66   1058.66   1058.64   1059.68      1.02       .96       .19   1058.00
    1186.0       9.5    1171.1       5.4       4.3     143.4       3.2      15.1      10.4   1058.00
       .16      2.22      8.17      1.66      .030      .030      .040      .000   1055.80   9957.22
   .008591      230.      230.      230.        20        11         0       .00     82.37  10039.59


*SECNO  .668
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9967.2   10040.0  TYPE=      1  TARGET=      72.820
      .668      3.73   1061.43   1061.43   1061.47   1062.50      1.07      2.60       .01   1060.00
    1186.0      32.4    1104.1      49.5       8.9     129.1      13.1      16.2      10.9   1060.00
       .17      3.63      8.55      3.79      .030      .030      .040      .000   1057.70   9967.55
   .008467      305.      305.      305.         2        11         0       .00     72.45  10040.00


=      .300 CEHV=      .500
*SECNO  .722

3470 ENCROACHMENT STATIONS=     9950.2   10029.9  TYPE=      1  TARGET=      79.730
      .722      3.13   1064.13       .00   1063.98   1064.93       .80      2.34       .08 100000.00
    1186.0        .0    1186.0        .0        .0     165.6        .0      17.2      11.4 100000.00
       .18       .00      7.16       .00      .000      .030      .000      .000   1061.00   9950.18
   .007973      280.      285.      280.         2         0         0       .00     79.73  10029.91


*SECNO  .759

3470 ENCROACHMENT STATIONS=     9972.7   10027.5  TYPE=      1  TARGET=      54.730

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1067.80 ELREA=      1067.80


          INTERSTATE 10 - EAST BOUND OFF RAMP
          5 - 10ft x 4ft x 52ft BC

      .759      2.60   1065.20       .00   1065.24   1066.30      1.10      1.22       .15 100000.00
    1186.0        .0    1186.0        .0        .0     141.0        .0      17.9      11.7 100000.00
       .19       .00      8.41       .00      .000      .022      .000      .000   1062.60   9972.72
   .004844      200.      200.      200.         3         0         0       .00     54.71  10027.44
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1064.62 , NOT 1065.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.50	2.50	.00	53.67	3.67	200.00	.00	1062.80	1062.60

*SECNO .769
BTCARD, BRIDGE STENCL= 9972.67 STENCR= 10027.17

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1065.30 BRIDGE VELOCITY= 9.14 CALCULATED CHANNEL AREA= 125.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1066.02	1066.81	.00	0.	1186.	200.	200.	1066.80	1068.50	0.

3470 ENCROACHMENT STATIONS= 9972.7 10027.2 TYPE= 1 TARGET= 54.500

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1068.50 ELREA= 1068.50

.769	3.33	1066.13	.00	1066.13	1066.81	.68	.51	.00	100000.00
1186.0	.0	1186.0	.0	.0	178.7	.0	18.1	11.8	100000.00
.19	.00	6.64	.00	.000	.022	.000	.000	1062.80	9972.67
.002239	52.	52.	52.	0	0	0	.00	54.49	10027.17

CCHV= .100 CEHV= .300
*SECNO .792

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9974.5 10025.5 TYPE= 1 TARGET= 51.030

CONCRETE LINED CHANNEL BETWEEN THE TWO CULVERTS
INTERSTATE 10

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   .792      2.68   1066.18   1066.18   1066.18   1067.47      1.29       .40       .18 100000.00
 1186.0        .0    1186.0        .0        .0     130.1        .0     18.6      11.9 100000.00
   .19       .00      9.12       .00      .000      .022      .000      .000   1063.50   9974.52
.005549      120.      120.      120.         3        15         0       .00     51.03  10025.55


CCHV=     .300 CEHV=     .500
*SECNO  .822
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9974.5   10025.5  TYPE=      1  TARGET=       51.030
   .822      2.69   1067.09   1067.09   1067.08   1068.37      1.29       .89       .00 100000.00
 1186.0        .0    1186.0        .0        .0     130.3        .0     19.0      12.1 100000.00
   .20       .00      9.10       .00      .000      .022      .000      .000   1064.40   9974.52
.005523      160.      160.      160.         0         5         0       .00     51.03  10025.55


*SECNO  .847

3470 ENCROACHMENT STATIONS=     9973.9   10026.7  TYPE=      1  TARGET=       52.820

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1071.70 ELREA=      1071.70


        INTERSTATE 10 - WEST BOUND ON RAMP
        4 - 12ft x 4.5ft x 52ft BC

   .847      3.07   1068.17       .00   1068.17   1069.03       .86       .53       .13 100000.00
 1186.0        .0    1186.0        .0        .0     159.0        .0     19.5      12.3 100000.00
   .20       .00      7.46       .00      .000      .022      .000      .000   1065.10   9973.89
.003143      130.      130.      130.         3         0         0       .00     52.82  10026.71


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1067.12 , NOT    1068.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
   1.00       1.50      2.50       .00     53.67      3.67    200.00       .00   1065.40   1065.10

*SECNO  .857
BTCARD, BRIDGE STENCL=    9973.82   STENCR=   10026.81
CLASS B LOW FLOW

3420 BRIDGE W.S.=    1067.84 BRIDGE VELOCITY=       9.15     CALCULATED CHANNEL AREA=       122.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1068.99	1069.46	.00	0.	1186.	200.	200.	1069.40	1071.70	0.

3470 ENCROACHMENT STATIONS= 9973.8 10026.8 TYPE= 1 TARGET= 52.989

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1071.70 ELREA= 1071.70

.857	3.33	1068.73	.00	1068.73	1069.46	.73	.43	.00	100000.00
1186.0	.0	1186.0	.0	.0	173.5	.0	19.7	12.3	100000.00
.20	.00	6.84	.00	.000	.022	.000	.000	1065.40	9973.82
.002382	52.	52.	52.	0	0	0	.00	52.99	10026.81

CCHV= .100 CEHV= .300
*SECNO .914
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9954.8 10050.0 TYPE= 1 TARGET= 95.200

.914	2.86	1073.36	1073.36	1073.42	1074.22	.85	.95	.04	1072.00
1186.0	73.4	960.0	152.6	13.8	125.0	23.3	20.8	12.9	1072.00
.21	5.32	7.68	6.56	.016	.022	.016	.000	1070.50	9955.45
.004335	301.	301.	301.	20	15	0	.00	94.55	10050.00

CCHV= .300 CEHV= .500
*SECNO .959
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9973.4 10026.7 TYPE= 1 TARGET= 53.360

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1079.90 ELREA= 1079.90

MCDOWELL ROAD
4 - 12 X 4.5 FT. BOX CULVERTS

.959	2.48	1074.98	1074.98	1074.98	1076.23	1.25	.63	.20	100000.00
1186.0	.0	1186.0	.0	.0	132.2	.0	21.6	13.3	100000.00
.22	.00	8.97	.00	.000	.012	.000	.000	1072.50	9973.37
.001761	240.	240.	240.	20	11	0	.00	53.36	10026.73

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1074.60 , NOT 1074.98 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.60	.00	51.25	3.25	216.00	.00	1073.50	1072.50

*SECNO .969
BTCARD, BRIDGE STENCL= 9973.35 STENCR= 10026.75

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1075.67 BRIDGE VELOCITY= 9.26 CALCULATED CHANNEL AREA= 104.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1077.56	.00	0.	1186.	216.	216.	1078.00	1079.90	0.

3470 ENCROACHMENT STATIONS= 9973.3 10026.8 TYPE= 1 TARGET= 53.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1079.90 ELREA= 1079.90

CITY OF BUCKEYE CORPORATE LIMITS ON THE SOUTH SIDE OF MCDOWELL RD.
MARICOPA COUNTY,UNINCORPORATED AREAS ON THE NORTH SIDE OF MCDOWELL RD

.969	3.40	1076.90	.00	1076.90	1077.56	.66	1.34	.00	100000.00
1186.0	.0	1186.0	.0	.0	181.5	.0	21.8	13.3	100000.00
.22	.00	6.53	.00	.000	.012	.000	.000	1073.50	9973.35
.000638	52.	52.	52.	0	0	0	.00	53.40	10026.75

CCHV= .100 CEHV= .300
*SECNO 1.016
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9971.7 10307.5 TYPE= 1 TARGET= 335.780

1.016	3.80	1079.40	1079.40	1079.39	1079.86	.46	.28	.02	1078.00
1186.0	13.8	860.1	312.1	5.9	138.2	140.7	23.2	14.4	1078.00
.24	2.34	6.22	2.22	.025	.025	.025	.000	1075.60	9971.68
.002487	250.	250.	250.	20	8	0	.00	335.78	10307.46

CCHV= .100 CEHV= .300
*SECNO 1.064

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9972.8 10034.3 TYPE= 1 TARGET= 61.480

1.064	3.90	1081.50	1081.50	1081.43	1082.79	1.29	1.03	.25	1080.00
1186.0	17.5	1147.8	20.7	5.6	123.9	11.2	24.4	15.6	1080.00
.25	3.13	9.27	1.85	.035	.030	.060	.000	1077.60	9972.84
.007856	253.	253.	253.	20	8	0	.00	61.48	10034.32

*SECNO 1.159
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9970.6 10076.9 TYPE= 1 TARGET= 106.300

FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL, HOWEVER VERY SMALL AMOUNT IN THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

1.159	3.33	1085.83	1085.83	1085.87	1086.80	.98	3.96	.03	1084.00
1186.0	29.4	1069.9	86.7	8.3	128.8	41.7	26.2	16.6	1084.00
.26	3.52	8.31	2.08	.035	.030	.060	.000	1082.50	9970.87
.007988	500.	500.	500.	3	12	0	.00	104.77	10075.64

*SECNO 1.254
7185 MINIMUM SPECIFIC ENERGY

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9965.0   10030.0  TYPE=      1  TARGET=      65.030
     1.254      4.71   1090.51   1090.51   1090.50   1091.83      1.32      3.97       .10   1090.00
    1186.0       7.9    1175.9       2.3       4.6     126.8       2.6      28.0      17.5   1090.00
       .28      1.71      9.28       .89      .035      .030      .060      .000   1085.80   9965.00
   .007874      500.      500.      500.         3        11         0       .00     65.03  10030.03


*SECNO 1.348

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9981.9   10068.7  TYPE=      1  TARGET=      86.771

          Q @ X1 = 1.348 TO X1  = 1.725
          Q = 955 CFS

     1.348      3.11   1094.61       .00   1094.62   1095.24       .63      3.34       .07   1094.00
     955.0       1.4     948.8       4.8       1.0     148.9       5.7      29.7      18.4   1094.00
       .30      1.42      6.37       .84      .035      .030      .060      .000   1091.50   9981.91
   .005530      500.      500.      500.         2         0         0       .00     86.64  10068.55


*SECNO 1.443
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9970.9   10075.0  TYPE=      1  TARGET=     104.120
     1.443      3.27   1098.87   1098.87   1098.91   1099.74       .86      3.24       .07   1098.00
     955.0       8.2     902.4      44.4       3.8     117.7      28.1      31.4      19.5   1098.00
       .32      2.14      7.66      1.58      .035      .030      .060      .000   1095.60   9971.25
   .007706      500.      500.      500.         3         8         0       .00    103.75  10075.00


*SECNO 1.536
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9961.9   10086.0  TYPE=      1  TARGET=     124.100
     1.536      3.57   1103.67   1103.67   1103.63   1104.44       .77      3.49       .01   1102.00
     955.0      60.4     799.5      95.1      18.8     104.9      52.4      33.3      20.8   1102.00
       .34      3.21      7.62      1.82      .035      .030      .060      .000   1100.10   9961.86
   .006591      490.      490.      490.         3         8         0       .00    124.10  10085.96
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.631
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9964.0 10119.8 TYPE= 1 TARGET= 155.840

APPROXIMATELY 390 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
FOR THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS CONTINUE
OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

1.631	3.19	1108.29	1108.29	1108.29	1109.00	.71	3.33	.01	1106.00
955.0	81.1	653.5	220.5	21.0	82.3	94.7	35.4	22.4	1106.00
.36	3.87	7.94	2.33	.035	.030	.060	.000	1105.10	9964.05
.006719	500.	500.	500.	3	15	0	.00	155.66	10119.71

*SECNO 1.725
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9950.0 10065.0 TYPE= 1 TARGET= 114.990

1.725	3.29	1113.29	1113.29	1113.27	1114.10	.81	3.24	.03	1110.00
955.0	199.5	712.2	43.4	46.7	88.7	29.4	37.5	23.9	1112.00
.38	4.27	8.03	1.47	.035	.030	.060	.000	1110.00	9950.00
.006235	500.	500.	500.	4	8	0	.00	114.99	10064.99

*SECNO 1.818
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9954.2 10035.5 TYPE= 1 TARGET= 81.279

Q @ X1 = 1.818 TO X1 = 2.482
Q = 1105 CFS

1.818	3.22	1117.42	1117.42	1117.40	1118.44	1.03	3.40	.07	1116.00
1105.0	65.8	1026.3	12.9	19.6	122.3	7.5	39.3	25.0	1116.00
.40	3.36	8.39	1.72	.035	.030	.060	.000	1114.20	9954.24
.007636	490.	490.	490.	2	5	0	.00	81.28	10035.52

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.913
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9978.0 10042.0 TYPE= 1 TARGET= 63.900

1.913	3.71	1121.21	1121.21	1121.20	1122.43	1.21	3.84	.06	1120.00
1105.0	19.8	1073.6	11.6	7.4	119.8	7.4	40.9	25.9	1120.00
.41	2.69	8.96	1.57	.035	.030	.060	.000	1117.50	9978.05
.007736	500.	500.	500.	2	8	0	.00	63.90	10041.95

*SECNO 2.008
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9953.8 10059.3 TYPE= 1 TARGET= 105.570

THOMAS ROAD

2.008	4.34	1125.34	1125.34	1125.31	1126.30	.96	3.44	.03	1124.00
105.0	51.3	1012.8	40.9	18.0	123.7	27.0	42.6	26.8	1124.00
.43	2.85	8.19	1.51	.035	.030	.060	.000	1121.00	9953.77
.006163	500.	500.	500.	2	8	0	.00	105.57	10059.34

*SECNO 2.107
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9950.0 10063.5 TYPE= 1 TARGET= 113.510

2.107	4.57	1131.07	1131.07	1131.03	1132.00	.93	3.34	.00	1130.00
1105.0	45.5	1026.6	33.0	16.6	128.3	24.3	44.7	28.2	1130.00
.45	2.74	8.00	1.36	.035	.030	.060	.000	1126.50	9950.00
.006567	525.	525.	525.	11	8	0	.00	113.51	10063.51

*SECNO 2.202

3470 ENCROACHMENT STATIONS= 9975.3 10039.4 TYPE= 1 TARGET= 64.101

2.202	4.41	1133.91	.00	1133.94	1134.92	1.01	2.89	.02	1132.00
1105.0	26.4	1047.5	31.1	9.1	126.7	18.2	46.5	29.2	1132.00
.47	2.91	8.27	1.71	.035	.030	.060	.000	1129.50	9975.47
.005124	500.	500.	500.	3	0	0	.00	63.60	10039.06

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.296
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9968.3 10060.0 TYPE= 1 TARGET= 91.700

2.296	3.66	1137.36	1137.36	1137.40	1138.36	1.00	3.06	.00	1136.00
1105.0	29.6	1026.0	49.4	9.7	123.4	25.8	48.3	30.1	1136.00
.49	3.06	8.31	1.92	.035	.030	.060	.000	1133.70	9969.00
.007436	500.	500.	500.	2	15	0	.00	91.00	10060.00

*SECNO 2.389

3470 ENCROACHMENT STATIONS= 9950.1 10050.0 TYPE= 1 TARGET= 99.920

2.389	3.33	1140.53	.00	1140.49	1141.10	.57	2.69	.04	1138.00
1105.0	170.2	870.6	64.3	47.4	132.0	30.7	50.4	31.1	1138.00
.51	3.59	6.60	2.10	.035	.030	.060	.000	1137.20	9950.08
.004229	490.	490.	490.	3	0	0	.00	99.92	10050.00

*SECNO 2.482

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS= 9923.1 10026.9 TYPE= 1 TARGET= 103.820

2.482	3.08	1143.68	1143.66	1143.69	1144.44	.77	3.28	.06	1143.00
1105.0	544.2	560.8	.0	79.2	78.2	.0	52.5	32.3	100000.00
.53	6.87	7.17	.00	.035	.030	.000	.000	1140.60	9923.25
.012189	490.	490.	490.	5	15	0	.00	103.51	10026.75

*SECNO 2.576

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

3470 ENCROACHMENT STATIONS= 9915.0 10052.3 TYPE= 1 TARGET= 137.320

Q @ X1 = 2.576 TO X1 = 2.912

Q = 915 CFS

2.576	4.35	1146.45	.00	1146.45	1146.66	.21	2.17	.06	1145.80
915.0	530.6	382.3	2.1	142.5	105.7	5.1	54.8	33.6	1146.00
.57	3.72	3.62	.41	.035	.030	.060	.000	1142.10	9915.00
.001986	495.	495.	495.	3	0	0	.00	137.32	10052.32

*SECNO 2.670

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS= 9921.0 10036.5 TYPE= 1 TARGET= 115.521

2.670	3.66	1147.76	.00	1147.77	1148.11	.35	1.41	.04	1147.00
915.0	636.1	278.9	.0	126.5	70.2	.0	57.4	35.1	100000.00
.60	5.03	3.97	.00	.035	.030	.000	.000	1144.10	9921.04
.004283	500.	500.	500.	3	0	0	.00	115.50	10036.53

*SECNO 2.765

3470 ENCROACHMENT STATIONS= 9930.4 10058.5 TYPE= 1 TARGET= 128.061

2.765	2.73	1149.93	.00	1149.92	1150.23	.30	2.11	.00	100000.00
915.0	.0	915.0	.0	.0	207.6	.0	59.7	36.5	100000.00
.63	.00	4.41	.00	.000	.030	.000	.000	1147.20	9930.41
.004170	500.	500.	500.	3	0	0	.00	127.98	10058.38

*SECNO 2.860

3470 ENCROACHMENT STATIONS= 9934.3 10050.0 TYPE= 1 TARGET= 115.740

2.860	2.42	1152.12	.00	1152.11	1152.55	.42	2.28	.04	1152.00
915.0	.0	863.5	51.5	.1	161.1	27.6	62.0	37.9	1150.00
.65	.03	5.36	1.86	.035	.030	.060	.000	1149.70	9934.26
.005016	500.	500.	500.	2	0	0	.00	115.74	10050.00

*SECNO 2.912

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9963.1 10025.5 TYPE= 1 TARGET= 62.380

2.912	3.52	1154.12	1154.12	1154.11	1155.14	1.03	2.11	.18	1154.00
915.0	.1	914.8	.1	.1	112.5	.3	63.0	38.5	1154.00
.66	.69	8.13	.40	.035	.030	.060	.000	1150.60	9963.09
.010511	300.	300.	300.	3	14	0	.00	62.38	10025.47

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.973

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9955.8 10098.5 TYPE= 1 TARGET= 142.721

Q @ X1 = 2.973 TO X1 = 3.342
Q = 726 CFS
INDIAN SCHOOL ROAD

2.973	2.84	1156.84	.00	1156.85	1157.19	.35	1.98	.07	100000.00
726.0	.0	638.9	87.1	.0	127.4	62.6	64.1	39.2	1156.00
.68	.00	5.02	1.39	.000	.030	.060	.000	1154.00	9955.78
.004138	300.	300.	300.	3	0	0	.00	142.65	10098.43

*SECNO 3.059

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3470 ENCROACHMENT STATIONS= 9959.3 10050.0 TYPE= 1 TARGET= 90.750

3.059	3.20	1158.20	.00	1158.15	1158.42	.21	1.21	.01	1158.00
726.0	.0	631.1	94.9	.1	160.6	55.1	66.2	40.4	1156.00
.72	.02	3.93	1.72	.035	.030	.060	.000	1155.00	9959.25
.001892	450.	450.	450.	4	0	0	.00	90.75	10050.00

*SECNO 3.154

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.8 10033.8 TYPE= 1 TARGET= 58.000

3.154	2.53	1159.83	1159.83	1159.84	1160.70	.86	1.93	.19	100000.00
726.0	.0	726.0	.0	.0	97.5	.0	68.0	41.3	100000.00
.74	.00	7.45	.00	.000	.030	.000	.000	1157.30	9975.83
.011376	505.	505.	505.	2	15	0	.00	57.93	10033.76

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.247

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3470 ENCROACHMENT STATIONS= 9963.3 10016.0 TYPE= 1 TARGET= 52.750

3.247	3.80	1163.20	.00	1163.20	1163.80	.59	3.08	.03	1162.00
726.0	7.8	714.2	4.1	4.1	114.5	3.7	69.2	41.9	1162.00
.76	1.90	6.24	1.11	.035	.030	.060	.000	1159.40	9963.29
.003974	490.	490.	490.	3	0	0	.00	52.75	10016.04

*SECNO 3.342
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9974.9 10020.1 TYPE= 1 TARGET= 45.119

3.342	2.93	1166.03	1166.03	1166.02	1167.04	1.02	3.09	.13	1166.00
726.0	.0	726.0	.0	.0	89.7	.0	70.4	42.5	1166.00
.78	.00	8.10	.00	.000	.030	.000	.000	1163.10	9974.94
.010860	500.	500.	500.	2	15	0	.00	45.12	10020.06

*SECNO 3.436

3470 ENCROACHMENT STATIONS= 9981.0 10033.6 TYPE= 1 TARGET= 52.560

Q @ X1 = 3.436 TO X1 = 3.719
Q = 594 CFS

3.436	3.02	1170.72	.00	1170.72	1171.43	.72	4.36	.03	1170.00
594.0	5.7	587.0	1.3	3.2	85.8	1.3	71.4	43.0	1170.00
.80	1.78	6.84	1.03	.035	.030	.060	.000	1167.70	9981.07
.007001	495.	495.	500.	4	0	0	.00	52.50	10033.57

*SECNO 3.530

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9969.3 10080.0 TYPE= 1 TARGET= 110.670

3.530	2.80	1172.70	.00	1172.69	1172.86	.16	1.38	.06	1172.00
594.0	3.1	513.3	77.7	3.8	148.5	62.0	73.2	44.0	1170.30
.84	.81	3.46	1.25	.035	.030	.060	.000	1169.90	9969.33
.001459	500.	500.	500.	5	0	0	.00	110.67	10080.00

*SECNO 3.625
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9963.5 10080.0 TYPE= 1 TARGET= 116.450

3.625	1.83	1174.13	1174.13	1174.16	1174.64	.51	1.60	.10	1174.00
594.0	.0	562.9	31.1	.1	95.9	17.0	75.1	45.3	1173.50
.86	.05	5.87	1.83	.035	.030	.060	.000	1172.30	9963.81
.011977	500.	500.	500.	3	14	0	.00	116.19	10080.00

*SECNO 3.719

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

3470 ENCROACHMENT STATIONS= 9968.1 10100.0 TYPE= 1 TARGET= 131.910

3.719	2.94	1176.94	.00	1176.79	1177.21	.27	2.54	.02	1176.00
594.0	9.4	543.1	41.5	6.4	125.9	40.9	76.7	46.7	1176.00
.90	1.48	4.31	1.02	.035	.030	.060	.000	1174.00	9968.09
.002837	495.	495.	495.	5	0	0	.00	131.91	10100.00

*SECNO 3.813

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .18

3470 ENCROACHMENT STATIONS= 9986.2 10055.0 TYPE= 1 TARGET= 68.780

Q @ X1 = 3.813 TO X1 = 4.016
Q = 221 CFS

3.813	1.96	1178.76	1178.74	1178.76	1179.16	.40	1.91	.04	100000.00
221.0	.0	214.0	7.0	.0	41.3	5.4	78.0	47.8	1179.00
.93	.00	5.18	1.30	.000	.030	.060	.000	1176.80	9986.22
.011977	500.	500.	500.	6	14	0	.00	60.06	10055.00

*SECNO 3.930

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.76

3470 ENCROACHMENT STATIONS= 9986.0 10036.0 TYPE= 1 TARGET= 49.950

CAMELBACK ROAD

3.930	2.60	1182.80	.00	1182.80	1183.06	.26	3.88	.01	100000.00
221.0	.0	215.7	5.3	.0	52.6	6.4	78.7	48.5	1182.00
.97	.00	4.10	.84	.000	.030	.060	.000	1180.20	9986.01
.003882	615.	615.	615.	5	0	0	.00	49.95	10035.96

*SECNO 4.016

3470 ENCROACHMENT STATIONS= 9961.4 10060.0 TYPE= 1 TARGET= 98.620

APPROXIMATELY 152 CFS WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL
FOR THE NEXT THREE UPSTREAM CROSS SECTIONS. BREAKOUT FLOWS THEN
CONTINUE OVERLAND TO THE SOUTHEAST AS SHEET FLOW.

4.016	1.78	1184.58	.00	1184.55	1184.73	.15	1.66	.01	1184.00
221.0	16.1	193.1	11.7	11.5	59.4	11.8	79.4	49.3	1184.00
1.01	1.40	3.25	1.00	.035	.030	.060	.000	1182.80	9961.38
.003435	455.	455.	455.	4	0	0	.00	98.62	10060.00

*SECNO 4.086

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS= 9965.0 10043.8 TYPE= 1 TARGET= 78.820

Q @ X1 = 4.086
Q = 68 CFS

4.086	1.28	1185.58	.00	1185.55	1185.60	.02	.86	.01	1235.30
68.0	.0	68.0	.0	.0	56.3	.0	80.0	50.1	100000.00
1.10	.00	1.21	.00	.000	.030	.000	.000	1184.30	9965.00
.000940	370.	370.	370.	2	0	0	.00	78.82	10043.82

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.152

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 5.83

3470 ENCROACHMENT STATIONS= 9930.0 10104.9 TYPE= 1 TARGET= 174.940

MEDLOCK DRIVE
Q = 187 CFS

4.152	2.69	1185.69	.00	1185.66	1185.70	.01	.10	.00	1235.50
187.0	.0	166.4	20.6	.0	166.2	64.0	81.2	51.1	1184.00
1.20	.00	1.00	.32	.000	.030	.060	.000	1183.00	9930.00
.000209	350.	350.	350.	3	0	0	.00	174.94	10104.94

THIS RUN EXECUTED 19FEB92 15:27:01

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

JACKRABBIT TRAIL WASH (

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	1093.00	1038.61	9906.97	9910.00	10150.00	10159.09	.00	252.12	1.61	1037.00	59.89	4.10
	.000	1093.00	1038.61	9906.97	9910.00	10150.00	10159.09	.00	252.12	1.61	1037.00	59.13	4.08
	.070	1093.00	1041.16	9910.96	9915.00	10040.00	10051.54	2.55	140.58	1.66	1039.50	96.19	6.09
	.070	1093.00	1041.16	9910.98	9915.00	10040.00	10051.48	2.55	140.50	1.66	1039.50	97.40	6.11
	.142	1093.00	1043.81	9942.80	9940.00	10110.00	10105.32	2.65	162.52	2.31	1041.50	43.09	4.35
*	.142	1093.00	1043.82	9942.80	9940.00	10110.00	10105.32	2.66	162.52	2.32	1041.50	42.90	4.34
*	.228	1093.00	1046.49	9940.72	9945.00	10100.00	10151.41	2.68	210.69	1.99	1044.50	95.50	5.59
*	.228	1093.00	1046.49	9940.72	9945.00	10100.00	10151.36	2.67	210.64	1.99	1044.50	95.63	5.59
*	.312	1093.00	1050.55	9964.54	9970.00	10025.00	10109.65	4.06	145.11	4.55	1046.00	68.19	7.57
*	.312	1093.00	1050.61	9964.54	9970.00	10025.00	10109.65	4.12	145.11	4.61	1046.00	61.82	7.32
	.348	1093.00	1052.03	9969.92	9960.00	10030.00	10091.41	1.48	121.48	4.03	1048.00	45.78	6.18
	.348	1093.00	1051.98	9970.18	9960.00	10030.00	10089.29	1.37	119.11	3.98	1048.00	49.05	6.34
*	.440	963.00	1054.69	9974.86	9980.00	10055.00	10065.28	2.67	90.41	2.89	1051.80	77.13	6.67
	.440	963.00	1054.72	9974.86	9980.00	10055.00	10065.28	2.74	90.42	2.92	1051.80	72.03	6.54
*	.499	963.00	1056.31	9955.00	9955.00	10030.00	10030.97	1.62	75.97	3.41	1052.90	24.59	4.73
*	.499	963.00	1056.30	9955.00	9955.00	10030.00	10030.92	1.57	75.92	3.40	1052.90	25.40	4.75
	.566	1186.00	1057.16	9940.32	9950.00	10030.00	10035.81	.85	95.49	3.36	1053.80	24.78	5.02
	.566	1186.00	1057.16	9940.32	9950.00	10030.00	10035.81	.86	95.49	3.36	1053.80	24.78	5.02
*	.610	1186.00	1058.64	9957.22	9970.00	10030.00	10039.59	1.48	82.37	2.84	1055.80	88.12	8.23
*	.610	1186.00	1058.66	9957.22	9970.00	10030.00	10039.59	1.50	82.37	2.86	1055.80	85.91	8.17
*	.668	1186.00	1061.47	9967.18	9980.00	10030.00	10088.97	2.84	121.79	3.77	1057.70	71.47	7.94
*	.668	1186.00	1061.43	9967.55	9980.00	10030.00	10040.00	2.78	72.45	3.73	1057.70	84.67	8.55

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.722	1186.00	1063.98	9950.18	9950.00	10030.00	10029.91	2.51	79.72	2.98	1061.00	102.06	7.72
	.722	1186.00	1064.13	9950.18	9950.00	10030.00	10029.91	2.70	79.73	3.13	1061.00	79.73	7.16
*	.759	1186.00	1065.24	9972.72	9972.30	10028.00	10027.45	1.25	54.73	2.64	1062.60	46.53	8.31
	.759	1186.00	1065.20	9972.72	9972.30	10028.00	10027.44	1.07	54.71	2.60	1062.60	48.44	8.41
*	.769	1186.00	1066.13	9972.67	9972.30	10028.00	10027.17	.89	54.50	3.33	1062.80	22.39	6.64
*	.769	1186.00	1066.13	9972.67	9972.30	10028.00	10027.17	.93	54.49	3.33	1062.80	22.39	6.64
*	.792	1186.00	1066.18	9974.52	9972.00	10028.00	10025.55	.05	51.03	2.68	1063.50	55.43	9.11
*	.792	1186.00	1066.18	9974.52	9972.00	10028.00	10025.55	.05	51.03	2.68	1063.50	55.49	9.12
*	.822	1186.00	1067.08	9974.52	9972.00	10028.00	10025.55	.90	51.03	2.68	1064.40	55.33	9.11
*	.822	1186.00	1067.09	9974.52	9972.00	10028.00	10025.55	.90	51.03	2.69	1064.40	55.23	9.10
	.847	1186.00	1068.17	9973.89	9973.30	10028.00	10026.71	1.08	52.82	3.07	1065.10	31.38	7.45
	.847	1186.00	1068.17	9973.89	9973.30	10028.00	10026.71	1.08	52.82	3.07	1065.10	31.43	7.46
*	.857	1186.00	1068.73	9973.82	9973.30	10028.00	10026.81	.56	52.99	3.33	1065.40	23.82	6.84
*	.857	1186.00	1068.73	9973.82	9973.30	10028.00	10026.81	.56	52.99	3.33	1065.40	23.82	6.84
*	.914	1186.00	1073.42	9954.80	9975.00	10030.00	10100.79	4.69	145.99	2.92	1070.50	34.90	7.00
*	.914	1186.00	1073.36	9955.45	9975.00	10030.00	10050.00	4.63	94.55	2.86	1070.50	43.35	7.68
	.959	1186.00	1074.98	9973.37	9973.30	10026.80	10026.73	1.57	53.37	2.48	1072.50	17.49	8.95
*	.959	1186.00	1074.98	9973.37	9973.30	10026.80	10026.73	1.61	53.36	2.48	1072.50	17.61	8.97
*	.969	1186.00	1076.90	9973.35	9973.30	10026.80	10026.75	1.92	53.41	3.40	1073.50	6.38	6.53
*	.969	1186.00	1076.90	9973.35	9973.30	10026.80	10026.75	1.92	53.40	3.40	1073.50	6.38	6.53
*	1.016	1186.00	1079.39	9971.68	9980.00	10025.00	10307.46	2.48	335.77	3.79	1075.60	25.88	6.33
*	1.016	1186.00	1079.40	9971.68	9980.00	10025.00	10307.46	2.50	335.78	3.80	1075.60	24.87	6.22
*	1.064	1186.00	1081.43	9972.84	9980.00	10020.00	10034.32	2.05	61.48	3.83	1077.60	84.88	9.49
*	1.064	1186.00	1081.50	9972.84	9980.00	10020.00	10034.32	2.09	61.48	3.90	1077.60	78.56	9.27
	1.159	1186.00	1085.87	9970.62	9980.00	10030.00	10076.92	4.44	106.30	3.37	1082.50	74.20	8.11
*	1.159	1186.00	1085.83	9970.87	9980.00	10030.00	10075.64	4.33	104.77	3.33	1082.50	79.88	8.31
*	1.254	1186.00	1090.50	9965.00	9980.00	10020.00	10030.03	4.63	65.03	4.70	1085.80	79.23	9.29
*	1.254	1186.00	1090.51	9965.00	9980.00	10020.00	10030.03	4.68	65.03	4.71	1085.80	78.74	9.28
	1.348	955.00	1094.62	9981.89	9985.00	10050.00	10068.66	4.12	86.77	3.12	1091.50	54.99	6.36
	1.348	955.00	1094.61	9981.91	9985.00	10050.00	10068.55	4.11	86.64	3.11	1091.50	55.30	6.37
*	1.443	955.00	1098.91	9970.89	9980.00	10030.00	10111.96	4.29	141.06	3.31	1095.60	72.80	7.52
*	1.443	955.00	1098.87	9971.25	9980.00	10030.00	10075.00	4.26	103.75	3.27	1095.60	77.06	7.66
*	1.536	955.00	1103.63	9961.86	9985.00	10025.00	10085.96	4.72	124.11	3.53	1100.10	71.32	7.84
*	1.536	955.00	1103.67	9961.86	9985.00	10025.00	10085.96	4.80	124.10	3.57	1100.10	65.91	7.62

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	1.631	955.00	1108.29	9964.00	9990.00	10020.00	10119.84	4.67	155.84	3.19	1105.10	67.05	7.94
*	1.631	955.00	1108.29	9964.05	9990.00	10020.00	10119.71	4.62	155.66	3.19	1105.10	67.19	7.94
*	1.725	955.00	1113.27	9950.00	9990.00	10020.00	10064.99	4.98	114.99	3.27	1110.00	64.01	8.10
*	1.725	955.00	1113.29	9950.00	9990.00	10020.00	10064.99	5.00	114.99	3.29	1110.00	62.35	8.03
*	1.818	1105.00	1117.40	9954.25	9980.00	10025.00	10035.52	4.13	81.27	3.20	1114.20	77.91	8.45
*	1.818	1105.00	1117.42	9954.24	9980.00	10025.00	10035.52	4.13	81.28	3.22	1114.20	76.36	8.39
	1.913	1105.00	1121.20	9978.05	9990.00	10030.00	10041.95	3.79	63.91	3.70	1117.50	79.14	9.03
*	1.913	1105.00	1121.21	9978.05	9990.00	10030.00	10041.95	3.80	63.90	3.71	1117.50	77.36	8.96
*	2.008	1105.00	1125.31	9953.77	9980.00	10020.00	10059.34	4.12	105.57	4.31	1121.00	64.33	8.31
*	2.008	1105.00	1125.34	9953.77	9980.00	10020.00	10059.34	4.13	105.57	4.34	1121.00	61.63	8.19
*	2.107	1105.00	1131.03	9950.00	9975.00	10020.00	10063.51	5.72	113.51	4.53	1126.50	69.71	8.16
*	2.107	1105.00	1131.07	9950.00	9975.00	10020.00	10063.51	5.73	113.51	4.57	1126.50	65.67	8.00
	2.202	1105.00	1133.94	9975.30	9985.00	10020.00	10039.40	2.91	64.10	4.44	1129.50	49.52	8.18
	2.202	1105.00	1133.91	9975.47	9985.00	10020.00	10039.06	2.83	63.60	4.41	1129.50	51.24	8.27
*	2.296	1105.00	1137.40	9968.30	9985.00	10030.00	10088.15	3.46	119.85	3.70	1133.70	69.50	8.12
*	2.296	1105.00	1137.36	9969.00	9985.00	10030.00	10060.00	3.45	91.00	3.66	1133.70	74.36	8.31
	2.389	1105.00	1140.49	9950.07	9985.00	10030.00	10099.28	3.08	149.21	3.29	1137.20	43.96	6.66
	2.389	1105.00	1140.53	9950.08	9985.00	10030.00	10050.00	3.17	99.92	3.33	1137.20	42.29	6.60
*	2.482	1105.00	1143.69	9923.10	9975.00	10030.00	10026.90	3.20	103.81	3.09	1140.60	118.54	7.11
*	2.482	1105.00	1143.68	9923.25	9975.00	10030.00	10026.75	3.14	103.51	3.08	1140.60	121.89	7.17
*	2.576	915.00	1146.45	9915.00	9980.00	10030.00	10052.32	2.76	137.32	4.35	1142.10	20.07	3.63
*	2.576	915.00	1146.45	9915.00	9980.00	10030.00	10052.32	2.78	137.32	4.35	1142.10	19.86	3.62
*	2.670	915.00	1147.77	9921.02	9985.00	10040.00	10036.54	1.32	115.53	3.67	1144.10	42.78	3.97
*	2.670	915.00	1147.76	9921.04	9985.00	10040.00	10036.53	1.31	115.50	3.66	1144.10	42.83	3.97
	2.765	915.00	1149.92	9930.39	9930.00	10060.00	10058.45	2.16	128.07	2.72	1147.20	41.44	4.40
	2.765	915.00	1149.93	9930.41	9930.00	10060.00	10058.38	2.16	127.98	2.73	1147.20	41.70	4.41
	2.860	915.00	1152.11	9934.26	9935.00	10020.00	10177.81	2.19	243.55	2.41	1149.70	49.70	5.31
	2.860	915.00	1152.12	9934.26	9935.00	10020.00	10050.00	2.20	115.74	2.42	1149.70	50.16	5.36
*	2.912	915.00	1154.11	9963.09	9965.00	10020.00	10025.47	2.00	62.38	3.51	1150.60	106.52	8.17
*	2.912	915.00	1154.12	9963.09	9965.00	10020.00	10025.47	1.99	62.38	3.52	1150.60	105.11	8.13
	2.973	726.00	1156.85	9955.76	9950.00	10020.00	10098.48	2.74	142.72	2.85	1154.00	40.99	5.00
	2.973	726.00	1156.84	9955.78	9950.00	10020.00	10098.43	2.73	142.65	2.84	1154.00	41.38	5.02
*	3.059	726.00	1158.15	9959.25	9960.00	10025.00	10105.37	1.30	146.12	3.15	1155.00	16.18	3.58
*	3.059	726.00	1158.20	9959.25	9960.00	10025.00	10050.00	1.36	90.75	3.20	1155.00	18.92	3.93

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	3.154	726.00	1159.84	9975.80	9975.00	10035.00	10033.80	1.69	58.00	2.54	1157.30	112.73	7.42
*	3.154	726.00	1159.83	9975.83	9975.00	10035.00	10033.76	1.63	57.93	2.53	1157.30	113.76	7.45
*	3.247	726.00	1163.20	9963.29	9970.00	10010.00	10016.04	3.36	52.75	3.80	1159.40	39.97	6.25
*	3.247	726.00	1163.20	9963.29	9970.00	10010.00	10016.04	3.37	52.75	3.80	1159.40	39.74	6.24
*	3.342	726.00	1166.02	9974.94	9975.00	10020.00	10020.06	2.82	45.11	2.92	1163.10	109.13	8.11
*	3.342	726.00	1166.03	9974.94	9975.00	10020.00	10020.06	2.82	45.12	2.93	1163.10	108.60	8.10
	3.436	594.00	1170.72	9981.03	9990.00	10030.00	10033.59	4.70	52.56	3.02	1167.70	69.68	6.83
	3.436	594.00	1170.72	9981.07	9990.00	10030.00	10033.57	4.69	52.50	3.02	1167.70	70.01	6.84
*	3.530	594.00	1172.69	9969.33	9980.00	10040.00	10114.67	1.98	145.34	2.79	1169.90	14.43	3.43
*	3.530	594.00	1172.70	9969.33	9980.00	10040.00	10080.00	1.99	110.67	2.80	1169.90	14.59	3.46
*	3.625	594.00	1174.16	9963.55	9965.00	10050.00	10180.58	1.47	217.03	1.86	1172.30	97.50	5.39
*	3.625	594.00	1174.13	9963.81	9965.00	10050.00	10080.00	1.43	116.19	1.83	1172.30	119.77	5.87
*	3.719	594.00	1176.79	9968.09	9980.00	10040.00	10228.09	2.63	260.00	2.79	1174.00	29.78	4.23
*	3.719	594.00	1176.94	9968.09	9980.00	10040.00	10100.00	2.81	131.91	2.94	1174.00	28.37	4.31
*	3.813	221.00	1178.76	9986.22	9980.00	10035.00	10109.02	1.96	69.39	1.96	1176.80	119.82	5.17
*	3.813	221.00	1178.76	9986.22	9980.00	10035.00	10055.00	1.82	60.06	1.96	1176.80	119.77	5.18
	3.930	221.00	1182.80	9986.01	9980.00	10020.00	10035.96	4.04	49.95	2.60	1180.20	38.92	4.11
*	3.930	221.00	1182.80	9986.01	9980.00	10020.00	10035.96	4.04	49.95	2.60	1180.20	38.82	4.10
	4.016	221.00	1184.55	9961.38	9990.00	10040.00	10106.60	1.76	145.22	1.75	1182.80	32.32	3.09
	4.016	221.00	1184.58	9961.38	9990.00	10040.00	10060.00	1.78	98.62	1.78	1182.80	34.35	3.25
*	4.086	68.00	1185.55	9965.00	9965.00	10060.00	10043.82	.99	78.82	1.25	1184.30	11.33	1.28
*	4.086	68.00	1185.58	9965.00	9965.00	10060.00	10043.82	1.00	78.82	1.28	1184.30	9.40	1.21
*	4.152	187.00	1185.66	9930.00	9930.00	10030.00	10104.94	.12	174.94	2.66	1183.00	2.18	1.02
*	4.152	187.00	1185.69	9930.00	9930.00	10030.00	10104.94	.11	174.94	2.69	1183.00	2.09	1.00

RABBIT TRAIL WASH (

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1038.61	-1.39	1038.87	252.12	1.57	1087.87	3.56	.00	.00	9910.00	10150.00	.00
	.000	1038.61	.00	1038.87	252.12	1.59	1087.79	3.62	252.12	9906.97	9910.00	10150.00	10159.09
	.070	1041.16	.00	1041.73	140.58	7.64	1068.61	16.75	.00	.00	9915.00	10040.00	.00
	.070	1041.16	.00	1041.73	140.50	7.59	1068.75	16.65	140.58	9910.96	9915.00	10040.00	10051.54
*	.142	1043.81	.00	1044.10	162.52	.00	1093.00	.00	.00	.00	9940.00	10110.00	.00
*	.142	1043.82	.01	1044.11	162.52	.00	1093.00	.00	162.52	9942.80	9940.00	10110.00	10105.32
*	.228	1046.49	.00	1046.97	210.69	1.98	1073.14	17.88	.00	.00	9945.00	10100.00	.00
*	.228	1046.49	.00	1046.97	210.64	1.97	1073.18	17.84	210.69	9940.72	9945.00	10100.00	10151.41
*	.312	1050.55	.00	1051.41	145.11	2.56	1060.59	29.85	.00	.00	9970.00	10025.00	.00
*	.312	1050.61	.06	1051.41	145.11	3.37	1050.02	39.61	145.11	9964.54	9970.00	10025.00	10109.65
	.348	1052.03	.00	1052.55	121.48	.00	936.30	156.70	.00	.00	9960.00	10030.00	.00
	.348	1051.98	-.05	1052.53	119.11	.00	941.85	151.15	121.49	9969.92	9960.00	10030.00	10091.41
*	.440	1054.69	.00	1055.38	90.41	3.73	953.66	5.61	.00	.00	9980.00	10055.00	.00
	.440	1054.72	.03	1055.38	90.42	4.27	952.29	6.44	90.42	9974.86	9980.00	10055.00	10065.28
*	.499	1056.31	.00	1056.66	75.97	.00	962.92	.08	.00	.00	9955.00	10030.00	.00
*	.499	1056.30	-.02	1056.65	75.92	.00	962.93	.07	75.97	9955.00	9955.00	10030.00	10030.97
	.566	1057.16	.00	1057.55	95.49	9.61	1172.11	4.29	.00	.00	9950.00	10030.00	.00
	.566	1057.16	.00	1057.55	95.49	9.61	1172.10	4.29	95.49	9940.32	9950.00	10030.00	10035.81
*	.610	1058.64	.00	1059.68	82.37	8.87	1172.15	4.98	.00	.00	9970.00	10030.00	.00
*	.610	1058.66	.02	1059.68	82.37	9.53	1171.12	5.35	82.37	9957.22	9970.00	10030.00	10039.59
*	.668	1061.47	.00	1062.35	121.79	32.15	1042.45	111.40	.00	.00	9980.00	10030.00	.00
*	.668	1061.43	-.04	1062.50	72.45	32.37	1104.09	49.55	72.82	9967.18	9980.00	10030.00	10040.00
*	.722	1063.98	.00	1064.91	79.72	.00	1186.00	.00	.00	.00	9950.00	10030.00	.00
	.722	1064.13	.15	1064.93	79.73	.00	1186.00	.00	79.73	9950.18	9950.00	10030.00	10029.91
*	.759	1065.24	.00	1066.31	54.73	.00	1186.00	.00	.00	.00	9972.30	10028.00	.00
	.759	1065.20	-.03	1066.30	54.71	.00	1186.00	.00	54.73	9972.72	9972.30	10028.00	10027.45
*	.769	1066.13	.00	1066.81	54.50	.00	1186.00	.00	.00	.00	9972.30	10028.00	.00
*	.769	1066.13	.00	1066.81	54.49	.00	1186.00	.00	54.50	9972.67	9972.30	10028.00	10027.17
*	.792	1066.18	.00	1067.47	51.03	.00	1186.00	.00	.00	.00	9972.00	10028.00	.00
*	.792	1066.18	.00	1067.47	51.03	.00	1186.00	.00	51.03	9974.52	9972.00	10028.00	10025.55
	.822	1067.08	.00	1068.37	51.03	.00	1186.00	.00	.00	.00	9972.00	10028.00	.00
*	.822	1067.09	.00	1068.37	51.03	.00	1186.00	.00	51.03	9974.52	9972.00	10028.00	10025.55

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.847	1068.17	.00	1069.03	52.82	.00	1186.00	.00	.00	.00	9973.30	10028.00	.00
	.847	1068.17	.00	1069.03	52.82	.00	1186.00	.00	52.82	9973.89	9973.30	10028.00	10026.71
*	.857	1068.73	.00	1069.46	52.99	.00	1186.00	.00	.00	.00	9973.30	10028.00	.00
*	.857	1068.73	.00	1069.46	52.99	.00	1186.00	.00	52.99	9973.82	9973.30	10028.00	10026.81
*	.914	1073.42	.00	1074.07	145.99	73.07	894.52	218.41	.00	.00	9975.00	10030.00	.00
*	.914	1073.36	-.05	1074.22	94.55	73.39	960.00	152.61	95.20	9954.80	9975.00	10030.00	10050.00
*	.959	1074.98	.00	1076.23	53.37	.00	1186.00	.00	.00	.00	9973.30	10026.80	.00
*	.959	1074.98	-.01	1076.23	53.36	.00	1186.00	.00	53.36	9973.37	9973.30	10026.80	10026.73
*	.969	1076.90	.00	1077.56	53.41	.00	1186.00	.00	.00	.00	9973.30	10026.80	.00
*	.969	1076.90	.00	1077.56	53.40	.00	1186.00	.00	53.40	9973.35	9973.30	10026.80	10026.75
*	1.016	1079.39	.00	1079.86	335.77	13.53	869.06	303.41	.00	.00	9980.00	10025.00	.00
*	1.016	1079.40	.02	1079.86	335.78	13.81	860.08	312.11	335.78	9971.68	9980.00	10025.00	10307.46
*	1.064	1081.43	.00	1082.79	61.48	15.84	1151.51	18.66	.00	.00	9980.00	10020.00	.00
*	1.064	1081.50	.07	1082.79	61.48	17.51	1147.79	20.69	61.48	9972.84	9980.00	10020.00	10034.32
	1.159	1085.87	.00	1086.80	106.30	30.47	1065.56	89.98	.00	.00	9980.00	10030.00	.00
*	1.159	1085.83	-.05	1086.80	104.77	29.36	1069.91	86.72	106.30	9970.62	9980.00	10030.00	10076.92
	1.254	1090.50	.00	1091.83	65.03	7.65	1176.15	2.20	.00	.00	9980.00	10020.00	.00
*	1.254	1090.51	.01	1091.83	65.03	7.85	1175.87	2.28	65.03	9965.00	9980.00	10020.00	10030.03
	1.348	1094.62	.00	1095.24	86.77	1.38	948.73	4.89	.00	.00	9985.00	10050.00	.00
	1.348	1094.61	.00	1095.24	86.64	1.36	948.81	4.82	86.77	9981.89	9985.00	10050.00	10068.66
*	1.443	1098.91	.00	1099.74	141.06	8.86	899.47	46.67	.00	.00	9980.00	10030.00	.00
*	1.443	1098.87	-.04	1099.74	103.75	8.19	902.39	44.42	104.12	9970.88	9980.00	10030.00	10075.00
*	1.536	1103.63	.00	1104.45	124.11	57.49	807.26	90.25	.00	.00	9985.00	10025.00	.00
*	1.536	1103.67	.05	1104.44	124.10	60.38	799.49	95.13	124.10	9961.86	9985.00	10025.00	10085.96
*	1.631	1108.29	.00	1109.00	155.84	81.14	653.26	220.60	.00	.00	9990.00	10020.00	.00
*	1.631	1108.29	.00	1109.00	155.66	81.08	653.46	220.45	155.84	9964.00	9990.00	10020.00	10119.84
*	1.725	1113.27	.00	1114.10	114.99	198.10	714.82	42.08	.00	.00	9990.00	10020.00	.00
*	1.725	1113.29	.02	1114.10	114.99	199.45	712.19	43.35	114.99	9950.00	9990.00	10020.00	10064.99
*	1.818	1117.40	.00	1118.44	81.27	64.63	1027.71	12.66	.00	.00	9980.00	10025.00	.00
*	1.818	1117.42	.01	1118.44	81.28	65.79	1026.27	12.94	81.28	9954.24	9980.00	10025.00	10035.52
	1.913	1121.20	.00	1122.43	63.91	19.09	1074.78	11.13	.00	.00	9990.00	10030.00	.00
*	1.913	1121.21	.02	1122.43	63.90	19.83	1073.60	11.57	63.90	9978.05	9990.00	10030.00	10041.95
*	2.008	1125.31	.00	1126.30	105.57	48.99	1017.35	38.66	.00	.00	9980.00	10020.00	.00
*	2.008	1125.34	.03	1126.30	105.57	51.33	1012.79	40.88	105.57	9953.77	9980.00	10020.00	10059.34

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.107	1131.03	.00	1132.01	113.51	42.45	1032.61	29.93	.00	.00	9975.00	10020.00	.00
*	2.107	1131.07	.04	1132.00	113.51	45.47	1026.58	32.95	113.51	9950.00	9975.00	10020.00	10063.51
	2.202	1133.94	.00	1134.93	64.10	27.20	1045.76	32.04	.00	.00	9985.00	10020.00	.00
	2.202	1133.91	-.03	1134.92	63.60	26.40	1047.50	31.10	64.10	9975.30	9985.00	10020.00	10039.40
*	2.296	1137.40	.00	1138.35	119.85	31.35	1017.50	56.16	.00	.00	9985.00	10030.00	.00
*	2.296	1137.36	-.04	1138.36	91.00	29.62	1025.98	49.39	91.70	9968.30	9985.00	10030.00	10060.00
	2.389	1140.49	.00	1141.06	149.21	165.76	867.58	71.66	.00	.00	9985.00	10030.00	.00
	2.389	1140.53	.05	1141.10	99.92	170.18	870.55	64.27	99.92	9950.08	9985.00	10030.00	10050.00
*	2.482	1143.69	.00	1144.44	103.81	543.93	561.06	.00	.00	.00	9975.00	10030.00	.00
*	2.482	1143.68	-.01	1144.44	103.51	544.16	560.84	.00	103.82	9923.09	9975.00	10030.00	10026.91
*	2.576	1146.45	.00	1146.66	137.32	530.94	382.03	2.03	.00	.00	9980.00	10030.00	.00
*	2.576	1146.45	.01	1146.66	137.32	530.60	382.27	2.14	137.32	9915.00	9980.00	10030.00	10052.32
*	2.670	1147.77	.00	1148.11	115.53	636.04	278.95	.00	.00	.00	9985.00	10040.00	.00
*	2.670	1147.76	.00	1148.11	115.50	636.09	278.91	.00	115.52	9921.02	9985.00	10040.00	10036.54
	2.765	1149.92	.00	1150.22	128.07	.00	915.00	.00	.00	.00	9930.00	10060.00	.00
	2.765	1149.93	.00	1150.23	127.98	.00	915.00	.00	128.06	9930.39	9930.00	10060.00	10058.45
	2.860	1152.11	.00	1152.52	243.55	.00	849.89	65.11	.00	.00	9935.00	10020.00	.00
	2.860	1152.12	.01	1152.55	115.74	.00	863.45	51.55	115.74	9934.26	9935.00	10020.00	10050.00
*	2.912	1154.11	.00	1155.14	62.38	.07	914.82	.11	.00	.00	9965.00	10020.00	.00
*	2.912	1154.12	.01	1155.14	62.38	.08	914.78	.14	62.38	9963.09	9965.00	10020.00	10025.47
	2.973	1156.85	.00	1157.19	142.72	.00	638.44	87.56	.00	.00	9950.00	10020.00	.00
	2.973	1156.84	-.01	1157.19	142.65	.00	638.91	87.09	142.72	9955.76	9950.00	10020.00	10098.48
*	3.059	1158.15	.00	1158.31	146.12	.00	562.95	163.05	.00	.00	9960.00	10025.00	.00
*	3.059	1158.20	.05	1158.42	90.75	.00	631.11	94.88	90.75	9959.25	9960.00	10025.00	10050.00
*	3.154	1159.84	.00	1160.70	58.00	.00	726.00	.00	.00	.00	9975.00	10035.00	.00
*	3.154	1159.83	-.01	1160.70	57.93	.00	726.00	.00	58.00	9975.80	9975.00	10035.00	10033.80
*	3.247	1163.20	.00	1163.80	52.75	7.69	714.28	4.03	.00	.00	9970.00	10010.00	.00
*	3.247	1163.20	.00	1163.80	52.75	7.76	714.17	4.07	52.75	9963.29	9970.00	10010.00	10016.04
*	3.342	1166.02	.00	1167.04	45.11	.00	726.00	.00	.00	.00	9975.00	10020.00	.00
*	3.342	1166.03	.00	1167.04	45.12	.00	726.00	.00	45.12	9974.94	9975.00	10020.00	10020.06
	3.436	1170.72	.00	1171.43	52.56	5.75	586.93	1.33	.00	.00	9990.00	10030.00	.00
	3.436	1170.72	.00	1171.43	52.50	5.70	586.99	1.31	52.56	9981.03	9990.00	10030.00	10033.59
*	3.530	1172.69	.00	1172.85	145.34	2.94	507.94	83.12	.00	.00	9980.00	10040.00	.00
*	3.530	1172.70	.01	1172.86	110.67	3.06	513.27	77.67	110.67	9969.33	9980.00	10040.00	10080.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	3.625	1174.16	.00	1174.56	217.03	.09	529.76	64.15	.00	.00	9965.00	10050.00	.00
*	3.625	1174.13	-.03	1174.64	116.19	.00	562.89	31.11	116.45	9963.55	9965.00	10050.00	10080.00
*	3.719	1176.79	.00	1177.03	260.00	5.91	497.04	91.05	.00	.00	9980.00	10040.00	.00
*	3.719	1176.94	.15	1177.21	131.91	9.38	543.08	41.54	131.91	9968.09	9980.00	10040.00	10100.00
*	3.813	1178.76	.00	1179.15	69.39	.00	212.05	8.95	.00	.00	9980.00	10035.00	.00
*	3.813	1178.76	.00	1179.16	60.06	.00	213.98	7.02	68.78	9986.22	9980.00	10035.00	10055.00
*	3.930	1182.80	.00	1183.05	49.95	.00	215.67	5.33	.00	.00	9980.00	10020.00	.00
*	3.930	1182.80	.00	1183.06	49.95	.00	215.65	5.35	49.95	9986.01	9980.00	10020.00	10035.96
	4.016	1184.55	.00	1184.68	145.22	13.57	178.42	29.01	.00	.00	9990.00	10040.00	.00
	4.016	1184.58	.03	1184.73	98.62	16.12	193.13	11.74	98.62	9961.38	9990.00	10040.00	10060.00
*	4.086	1185.55	.00	1185.57	78.82	.00	68.00	.00	.00	.00	9965.00	10060.00	.00
*	4.086	1185.58	.03	1185.60	78.82	.00	68.00	.00	78.82	9965.00	9965.00	10060.00	10043.82
*	4.152	1185.66	.00	1185.68	174.94	.00	166.79	20.21	.00	.00	9930.00	10030.00	.00
*	4.152	1185.69	.02	1185.70	174.94	.00	166.39	20.61	174.94	9930.00	9930.00	10030.00	10104.94

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .142  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .142  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .228  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .228  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .312  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .312  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .312  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .312  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .440  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .499  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .499  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .610  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .610  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .610  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .610  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .610  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .610  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .668  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .668  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .668  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .668  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .722  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .722  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .759  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .769  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      .769  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=      .769  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=      .769  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .792  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .792  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .792  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .792  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .822  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .822  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .822  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .822  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .857  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=      .857  PROFILE=  2  HYDRAULIC JUMP D.S.
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CAUTION SECNO=      .914  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .914  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .914  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .914  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .914  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .914  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .959  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .959  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .959  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .959  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .959  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .959  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .969  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      .969  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=      .969  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=      .969  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.016  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.016  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.016  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.016  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.016  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.016  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.064  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.064  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.064  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.064  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.064  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.064  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.159  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.159  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.254  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.254  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.254  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.254  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.443  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.443  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.443  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.443  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.536  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.536  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.536  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.536  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.631  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.631  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.631  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     1.631  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.725  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     1.818  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.818  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=     1.913  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.913  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.008  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.008  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.008  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.008  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.107  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.107  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.107  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.107  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.296  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.296  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.296  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.296  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     2.482  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.482  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.576  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.670  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.670  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     2.912  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.912  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.912  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.912  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.059  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.059  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.154  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.154  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.154  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     3.154  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.154  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.247  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
WARNING SECNO=     3.247  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.342  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.342  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.342  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.342  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.530  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.530  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.625  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.625  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.625  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.625  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.719  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.719  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.813  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.813  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     3.813  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.930  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.930  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.086  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.086  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.152  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.152  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

FLOODWAY DATA, JACKRABBIT TRAIL WASH (
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.000	252.	270.	4.0	1038.6	1038.6	.0
.070	141.	184.	5.9	1041.2	1041.2	.0
.142	163.	252.	4.3	1043.8	1043.8	.0
.228	211.	206.	5.3	1046.5	1046.5	.0
.312	145.	173.	6.3	1050.6	1050.5	.1
.348	119.	207.	5.3	1052.0	1052.0	.0
.440	90.	152.	6.4	1054.7	1054.7	.0
.499	76.	203.	4.8	1056.3	1056.3	.0
.566	95.	242.	4.9	1057.2	1057.2	.0
.610	82.	151.	7.9	1058.6	1058.6	.0
.668	72.	151.	7.9	1061.5	1061.5	.0
.722	80.	166.	7.2	1064.1	1064.0	.1
.759	55.	141.	8.4	1065.2	1065.2	.0
.769	54.	179.	6.6	1066.1	1066.1	.0
.792	51.	130.	9.1	1066.2	1066.2	.0
.822	51.	130.	9.1	1067.1	1067.1	.0
.847	53.	159.	7.5	1068.2	1068.2	.0
.857	53.	174.	6.8	1068.7	1068.7	.0
.914	95.	162.	7.3	1073.3	1073.4	-.1
.959	53.	132.	9.0	1075.0	1075.0	.0
.969	53.	182.	6.5	1076.9	1076.9	.0
1.016	336.	285.	4.2	1079.4	1079.4	.0
1.064	61.	141.	8.4	1081.5	1081.4	.1
1.159	105.	179.	6.6	1085.9	1085.9	.0
1.254	65.	134.	8.9	1090.5	1090.5	.0
1.348	87.	156.	6.1	1094.6	1094.6	.0
1.443	104.	150.	6.4	1098.9	1098.9	.0
1.536	124.	176.	5.4	1103.6	1103.6	.0
1.631	156.	198.	4.8	1108.3	1108.3	.0
1.725	115.	165.	5.8	1113.3	1113.3	.0
1.818	81.	149.	7.4	1117.4	1117.4	.0
1.913	64.	135.	8.2	1121.2	1121.2	.0
2.008	106.	169.	6.5	1125.3	1125.3	.0
2.107	114.	169.	6.5	1131.0	1131.0	.0
2.202	64.	154.	7.2	1133.9	1133.9	.0
2.296	91.	159.	7.0	1137.4	1137.4	.0
2.389	100.	210.	5.3	1140.5	1140.5	.0
2.482	104.	157.	7.0	1143.7	1143.7	.0
2.576	137.	253.	3.6	1146.4	1146.4	.0
2.670	115.	197.	4.7	1147.8	1147.8	.0
2.765	128.	208.	4.4	1149.9	1149.9	.0
2.860	116.	189.	4.8	1152.1	1152.1	.0

FLOODWAY DATA, JACKRABBIT TRAIL WASH (
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
2.912	62.	113.	8.1	1154.1	1154.1	.0
2.973	143.	190.	3.8	1156.8	1156.8	.0
3.059	91.	216.	3.4	1158.2	1158.1	.1
3.154	58.	97.	7.4	1159.8	1159.8	.0
3.247	53.	122.	5.9	1163.2	1163.2	.0
3.342	45.	90.	8.1	1166.0	1166.0	.0
3.436	53.	90.	6.6	1170.7	1170.7	.0
3.530	111.	214.	2.8	1172.7	1172.7	.0
3.625	116.	113.	5.3	1174.2	1174.2	.0
3.719	132.	173.	3.4	1176.9	1176.8	.1
3.813	69.	47.	4.7	1178.8	1178.8	.0
3.930	50.	59.	3.7	1182.8	1182.8	.0
4.016	99.	83.	2.7	1184.6	1184.6	.0
4.086	79.	56.	1.2	1185.5	1185.5	.0
4.152	175.	230.	.8	1185.7	1185.7	.0

THIS RUN EXECUTED 18FEB92 08:13:38

4.SPO
split flow Analysis
latest version

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


SPLIT FLOW BEING PERFORMED


SF      SPLIT FLOW ANALYSIS OF BREAKOUTS ALONG JACKRABBIT TRAIL


TW      STARTING AT CROSS SECTION 0.440 TO 0.499
WS    2   0.440   0.499      -1     2.5
WC    0  1059.5     310  1055.5

TW      BREAKOUT FROM CROSS SECTION 0.499 TO 0.566
WS    2   0.499   0.566      -1     2.5
WC    0  1055.5     355  1057.2

        BREAKOUT FLOWS FROM CROSS SECTION 0.566 TO 0.616.
WS    2   0.566   0.616      -1     2.5
WC    0  1057.2     230  1059.5

TW      BREAKOUT FLOW FROM CROSS SECTION 0.616 TO 0.668.
WS    2   0.616   0.668      -1     2.5
WC    0  1059.5     305  1062.3

TW      BREAKOUT FLOWS FROM CROSS SECTION 0.688 TO 0.722.
WS    2   0.688   0.722      -1     2.5
WC    0  1062.3     285  1065.3

TW      BREAKOUT FLOWS FROM CROSS SECTION 0.722 TO 0.759
WS    2   0.722   0.759      -1     2.5
WC    0  1065.3     200  1067.8

TW      BREAKOUT FLOWS FROM CROSS SECTION 0.969 TO 1.016
WS    2   0.969   1.016      -1     2.5
WC    0  1079.9     250    1083

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.016 TO 1.064
WS    2   1.016   1.064      -1     2.5
WC    0    1083     253  1084.2

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.064 TO 1.159
      2   1.064   1.159      -1     2.5
      0  1084.2     500  1086.2
```

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TW      BREAKOUT FLOWS FROM CROSS SECTION 1.159 TO 1.254
WS    2   1.159   1.254      -1     2.5
WC    0  1086.2     500  1090.4

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.254 TO 1.348
WS    2   1.254   1.348      -1     2.5
WC    0  1090.4     500  1095.3

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.348 TO 1.443
WS    2   1.348   1.443      -1     2.5
WC    0  1095.3     500  1099.5

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.443 TO 1.536
WS    2   1.443   1.536      -1     2.5
WC    0  1099.5     490  1103.9

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.536 TO 1.631
WS    2   1.536   1.631      -1     2.5
WC    0  1103.9     500  1108.4

TW     BREAKOUT FLOWS FROM CROSS SECTION 1.631 TO 1.725
WS    2   1.631   1.725      -1     2.5
WC    0  1108.4     500  1112.6

TW      BREAKOUT FLOWS FROM CROSS SECTION 1.725 TO 1.818
      2   1.725   1.818      -1     2.5
WC    0  1112.6     490  1117.5

TW     BREAKOUT FLOWS FROM CROSS SECTION 3.930 TO 4.016
WS    2   3.930   4.016      -1     2.5
WC    0  1184.5     455    1185

TW      BREAKOUT FLOWS FROM CROSS SECTION 4.016 TO 4.086
WS    2   4.016   4.086      -1     2.5
WC    0    1185     370  1185.2

TW      BREAKOUT FLOWS FROM CROSS SECTION 4.086 TO 4.152
WS    2   4.086   4.152      -1     2.5
WC    0  1185.2     350  1185.5
```

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT      SPLIT FLOW RUN      FILE: 4.SPF
T3      JACKRABBIT TRAIL WASH - WASH 4 - WHITE TANK STRUCTURE #4 N. TO
T4      MEDLOCK DRIVE.

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0   0.00591       0        0        0    1040.0      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     -1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43        1       53       21       22       54       51        4        8
     42        5       26        0      110        0      200

NC     .03      .04      .03       .1       .3
QT       1     1900

          Q @ X1 = 0.000 TO X1 = 0.348 EQUALS Q AT (R46 + R46-1 + 1/5(WT4))
          Q = 1591 + 108 + 200 = 1900 CFS

X1    0.000        8     9910    10150        0        0        0
      1055     9840     1050     9870     1040     9900     1038     9910     1037    10000
GR    1038    10150     1040    10180     1042    10220

X1    0.070        8     9915    10040      370      370      370
GR    1050     9840     1056     9850     1050     9880     1040     9915   1039.5    10000
GR    1040    10040     1042    10060     1044    10210

X1    0.142        8     9940    10110      380      380      380
GR    1057     9890     1050     9920     1044     9940     1042     9970   1041.5    10000
GR    1042    10060     1044    10110     1046    10290

X1    0.228        9     9945    10100      450      450      455
GR    1055     9885     1050     9910     1046     9945   1044.5    10000     1046    10100
GR    1048    10310     1048    10375     1050    10470     1052    10530

NC     .03      .04      .03       .1       .3
X1    0.312        5     9970    10025      420      460      440
GR   1051.5     9955     1050     9970     1046    10000     1050    10025     1052    10335

X1    0.348        7     9960    10030      160      300      190
GR    1055     9960     1052     9970     1048    10000     1050    10030     1052    10090
GR    1054    10210     1056    10360
```

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NC      .03      .04      .03       .1       .3
QT        1     1741

          Q @ X1 = 0.440 TO X1 = 0.668 EQUALS Q AT (R46 + (.15)WT4)
          Q = 1591 + (.15)997 = 1741 CFS

X1    0.440        9     9980    10055      510      410      490
GR   1059.5     9935     1058     9955     1056     9965     1054     9980     1052     9995
GR   1051.8    10000     1052    10010     1054    10055     1056    10085

    FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL


X1    0.499        7     9955    10030      325      225      310
GR   1055.5     9955     1054     9965   1053.2     9980   1052.9    10000   1053.2    10020
GR     1056    10030   1057.6    10035

X1    0.566        8     9950    10030      350      350      355
GR   1057.2     9940     1056     9950     1054     9965   1053.8    10000     1054    10020
GR     1056    10030     1058    10040     1060    10470

X1    0.610        8     9970    10030      230      230      230
GR   1059.5     9940     1058     9970     1056     9980   1055.8    10000     1056    10020
GR     1058    10030     1060    10060     1062    10600

      0.668        6     9980    10030      305      305      305
GR   1062.3     9960     1060     9980   1057.7    10000     1060    10030     1062    10110
GR     1064    10500

NC                                  .3       .5
QT        1     1737

          Q @ X 1 = .722 TO X1 = 0.857 EQUALS Q AT CP46
          Q = 1737 CFS

X1    0.722        7     9950    10030      280      280      285
GR   1065.3     9920     1064     9950     1062     9970     1061    10000     1062    10020
GR     1064    10030     1066    10300

NC     .016     .016     .022

          5 - 10ft x 4ft x 52ft BC

X1    0.759        9   9972.3  10028.0      200      200      200
X3       10                                                        1067.8   1067.8
GR   1067.8     9930   1067.5   9972.3   1062.6   9973.2   1062.6    10000   1062.6  10026.8
GR   1067.5  10028.0     1068    10100     1068    10305     1069    10540
```

```
SB      1       1.5       2.5         0      53.67      3.67       200         0    1062.8    1062.6
X1  0.769         8    9972.3   10028.0        52        52        52
X2      0         0         1    1066.8    1068.5
X3     10                                                        1068.5    1068.5
BT      6      9850      1070            9972.3    1068.5            9973.2    1068.5
BT  10026.      1069             10028      1069             10110      1070
GR   1070      9850      1069      9930    1068.5    9972.3    1062.8    9973.2    1062.8     10000
GR  1062.8    10026.    1068.5   10028.0      1070     10110

NC                                  .1        .3

        CONCRETE LINED CHANNEL BETWEEN THE TWO CULVERTS
        INTERSTATE 10

X1  0.792        10    9972.0   10028.0       120       120       120
GR  1070.5      9940    1067.5    9972.0    1067.5    9973.3    1063.5    9977.0    1063.5     10000
GR  1063.5     10023    1067.5   10026.8    1067.5     10028      1070     10030      1080     10045

NC                                  .3        .5
X1  0.822        10    9972.0   10028.0       160       160       160
GR  1071.4      9940    1068.4      9972    1068.4    9973.3    1064.4      9977    1064.4     10000
GR  1064.4     10023    1068.4   10026.8    1068.4     10028    1070.9     10030    1080.9     10045


        4 - 12ft x 4.5ft x 52ft BC

X1  0.847         8    9973.3   10028.0       130       130       130
X3     10                                                        1071.7    1071.7
GR  1071.7      9930    1071.7    9973.3    1065.1    9974.4    1065.1     10000    1065.1   10025.6
GR  1071.7     10028      1072     10080      1076     10320

SB      1       1.5       2.5         0      53.67      3.67       200         0    1065.4    1065.1
X1  0.857         7    9973.3   10028.0        52        52        52
X2      0         0         1    1069.4    1071.7
X3     10                                                        1071.7    1071.7
BT      6      9925      1072            9973.3    1071.7            9974.4    1071.7
BT  10025.      1072             10028      1072             10100    1073.5
GR   1072      9925    1071.7    9973.3    1065.4    9974.4    1065.4     10000    1065.4   10025.6
GR   1072   10028.0    1073.5     10100

NC                                  .1        .3
QT      1      1737

        Q AT X1 = 0.914 TO X1 = 1.254 EQUALS Q AT CP46.
        Q = 1737 CFS

X1  0.914         8      9975     10030       301       301       301
GR  1074.6      9940      1073      9960      1072      9975      1071      9985    1070.5     10000
GR   1071     10015      1072     10030      1074     10130
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NC    .012      .012      .012       .3        .5

          MCDOWELL ROAD
          4 - 12 X 4.5 FT. BOX CULVERTS

X1   0.959        10    9973.3   10026.8       240       240       240
X3       10                                                     1079.9    1079.9
GR   1079.9      9940    1079.9    9973.3    1072.5    9973.4    1072.5     10000    1072.5   10026.7
GR   1080.1   10026.8    1080.3     10140    1078.8     10420      1080     10905      1082     11225

SB    1.05       1.5       2.6         0     51.25      3.25       216         0    1073.5    1072.5

    FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL, HOWEVER VERY SMALL AM-
    OUNT IN THE NEXT FIVE UPSTREAM CROSS SECTIONS

X1   0.969        10    9973.3   10026.8        52        52        52
X2       0         0         1      1078    1079.9
X3       10                                                     1079.9    1079.9
BT       9      9940    1079.9            9973.3      1080              9973.4      1080
BT   10026.    1080.1              10028    1080.1                10140    1080.3                10420
BT   1078.8              10905      1080                11225      1082
GR   1079.9      9940    1079.9    9973.3    1073.5    9973.4    1073.5     10000    1073.5   10026.7
GR   1080.1   10026.8    1080.3     10140    1078.8     10420      1080     10905      1082     11225

NC    .025      .025      .025        .1        .3
     1.016        10      9980     10025       250       250       250
GR    1083      9950      1078      9980      1076      9990    1075.6     10000      1076     10015
GR    1078     10025    1078.5     10050      1079     10180      1080     10510    1081.5     10690

NC    .035       .06       .03        .1        .3
X1   1.064        12      9980     10020       253       253       253
GR   1084.2      9960      1082      9970      1080      9980      1078      9990    1077.6     10000
GR    1078     10010      1080     10020      1082     10040    1082.1     10050      1082     10080
GR   1081.5     10150    1082.5     10350

X1   1.159         8      9980     10030       500       500       500
GR   1086.2      9960      1086      9970      1084      9980    1082.5     10000      1084     10030
GR    1086     10080      1088     10350    1088.4     10405

X1   1.254        10      9980     10020       500       500       500
GR   1090.4      9965      1090      9980      1088      9990      1086      9995    1085.8     10000
GR    1086     10010      1088     10015      1090     10020      1092     10060    1092.4     10100

QT       1      1498

          Q @ X1 = 1.348 TO X1 = 1.631 EQUALS (Q AT CP46 + Q AT CP31)/2
          Q = (1737 + 1258)/2 = 1498 CFS

X1   1.348         9      9985     10050       500       500       500
GR   1095.3      9970      1095      9980      1094      9985      1092      9990    1091.5     10000
GR    1092     10025      1094     10050      1096     10110      1098     10320
```

```
X1    1.443       9     9980    10030      500      500      500
GR   1099.5    9960     1099     9970     1098     9980     1096     9990   1095.6    10000
GR     1096   10010     1098    10030     1100    10210     1102    10470

X1    1.536       8     9985    10025      490      490      490
GR   1103.9    9955   1103.5     9965     1102     9985   1100.1    10000     1102    10025
GR     1104   10100     1106    10210   1107.1    10325

    FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL FOR THE NEXT THREE
    UPSTREAM CROSS SECTIONS

X1    1.631       7     9990    10020      500      500      500
GR   1108.4    9960     1108     9975     1106     9990   1105.1    10000     1106    10020
GR     1108   10090   1108.2    10110

QT        1    1258

            Q @ X1 = 1.725 TO X1 = 2.482 EQUALS Q AT CP31
            Q = 1258 CFS

X1    1.725       7     9990    10020      500      500      500
GR     1113    9950     1112     9980     1110     9990     1110    10000     1110    10010
GR     1112   10020   1113.7    10080

      1.818       9     9980    10025      490      490      490
GR   1117.7    9950     1117     9960     1116     9980   1114.2     9990   1114.2    10000
GR   1114.2   10010     1116    10025     1118    10040   1118.5    10070

X1    1.913       9     9990    10030      500      500      500
GR   1122.1    9940     1122     9970     1120     9990     1118     9995   1117.5    10000
GR     1118   10020     1120    10030     1122    10050     1124    10230


            THOMAS ROAD

X1    2.008      10     9980    10020      500      500      500
GR   1125.5    9950     1125     9960     1124     9980     1122     9990     1121    10000
GR     1122   10010     1124    10020     1126    10080     1128    10240     1130    10380

X1    2.107      13     9975    10020      525      525      525
GR   1130.8    9950   1130.5     9960     1130     9975     1128     9985   1126.5    10000
GR     1128   10005     1130    10020   1131.9    10100   1131.3    10160   1131.7    10200
GR   1131.5   10225     1132    10245   1132.6    10270

X1    2.202      12     9985    10020      500      500      500
GR   1134.3    9960     1134     9975     1132     9985     1130     9990   1129.5    10000
GR     1130   10010     1132    10020     1134    10040     1136    10160     1138    10380
GR     1138   10460     1140    10680
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X1    2.296      12     9985    10030      500      500      500
GR   1137.6    9965     1137     9975     1136     9985     1134     9990   1133.7    10000
GR     1134   10005     1136    10030     1137    10060     1138    10130     1139    10215
GR     1140   10380     1142    10525

X1    2.389      12     9985    10030      490      490      490
GR   1140.9    9940   1140.5     9950     1140     9955     1138     9985   1137.2    10000
GR     1138   10030     1140    10050   1140.5    10100   1141.7    10205   1141.2    10245
GR     1142   10300   1142.6    10350

X1    2.482      16     9975    10030      490      490      490
GR     1144    9920     1142     9940   1140.6     9950     1142     9960     1143     9975
GR     1142    9990   1140.7    10000     1142    10010     1144    10030     1146    10150
GR     1146   10295   1145.6    10320     1146    10340   1146.8    10400   1146.5    10480
GR     1148   10550

QT        1    1068

          Q @ X1 = 2.576 TO X1 EQUALS (Q AT CP31 + Q AT CP30)/2
          Q = (1258 + 879)/2 = 1068 CFS

X1    2.576      15     9980    10030      495      495      495
GR   1146.4    9915     1146     9925     1144     9935   1142.1     9950     1144     9965
GR   1145.8    9980     1144     9990   1142.8    10000     1144    10010     1146    10030
GR   1146.6   10060   1146.3    10100     1148    10220     1150    10370     1152    10600

X1    2.670      11     9985    10040      500      500      500
GR   1147.8    9920   1147.5     9930     1146     9940   1144.1     9950     1146     9980
GR     1147    9985     1146     9990   1145.5    10000     1146    10010     1148    10040
GR     1148   10070

X1    2.765      15     9930    10060      500      500      500
GR   1150.8    9915   1150.5     9925     1150     9930     1148     9940   1147.2     9950
GR     1148    9960   1148.3     9975     1148     9990   1147.7    10000     1148    10020
GR     1150   10060     1152    10330     1152    10430     1154    10470     1156    10610

X1    2.860      15     9935    10020      500      500      500
GR   1153.8    9915   1153.5     9925     1152     9935     1150     9950   1149.8     9960
GR     1150    9970   1151.1     9980     1150     9990   1149.7    10000     1150    10020
GR   1151.8   10040     1152    10170     1154    10310     1156    10425     1158    10535

X1    2.912      12     9965    10020      300      300      300
GR   1157.1    9910   1156.8     9920     1156     9930     1154     9965     1152     9980
GR   1150.6   10000     1152    10010     1154    10020     1156    10120     1156    10290
GR     1156   10335     1158    10630

QT        1     879
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Q @ X1 = 2.973 TO X1 = 3.342 EQUALS Q AT CP30
Q = 879 CFS
INDIAN SCHOOL ROAD

X1	2.973	14	9950	10020	300	300	300			
GR	1160.3	9915	1160	9930	1158	9940	1158	9950	1156	9960
GR	1154	9985	1154	10000	1158	10020	1158	10110	1160	10130
GR	1162	10170	1164	10205	1166	10490	1168	10770		
X1	3.059	15	9960	10025	450	450	450			
GR	1161.1	9930	1160.8	9940	1160	9950	1158	9960	1156	9970
GR	1155	10000	1156	10025	1156	10060	1158	10090	1158	10105
GR	1160	10110	1162	10115	1164	10120	1166	10125	1168	10130
X1	3.154	15	9975	10035	505	505	505			
GR	1162.1	9940	1162	9960	1160	9975	1158	9985	1157.3	10000
GR	1158	10020	1160	10035	1162	10045	1164	10055	1164	10070
GR	1162	10080	1162	10115	1164	10130	1166	10140	1168	10150
X1	3.247	11	9970	10010	490	490	490			
GR	1163.6	9920	1163.3	9930	1162	9970	1160	9985	1159.4	10000
GR	1160	10005	1162	10010	1164	10020	1166	10030	1168	10040
GR	1169.1	10045								
X1	3.342	11	9975	10020	500	500	500			
GR	1168.2	9965	1168	9970	1166	9975	1164	9985	1163.1	10000
GR	1164	10015	1166	10020	1168	10025	1170	10030	1172	10035
GR	1173.6	10040								
QT	1	747								

Q @ X1 = 3.436 TO X1 = 3.719 EQUALS Q AT CP28
Q = 747 CFS

X1	3.436	10	9990	10030	495	500	495			
GR	1170.8	9980	1170	9990	1168	9995	1167.7	10000	1168	10010
GR	1170	10030	1172	10040	1174	10045	1176	10050	1176.6	10055
X1	3.530	13	9980	10040	500	500	500			
GR	1173.3	9960	1172	9980	1170	9990	1169.9	10000	1170	10010
GR	1170.3	10040	1172	10080	1174	10180	1174	10215	1173.3	10225
GR	1174	10240	1176	10350	1178	10530				
X1	3.625	11	9965	10050	500	500	500			
GR	1175.1	9955	1174	9965	1172.3	10000	1173.5	10050	1174	10165
GR	1176	10360	1178	10430	1178	10475	1178.8	10510	1178	10575
GR	1180	10650								
X1	3.719	15	9980	10040	495	495	495			
GR	1177	9965	1176	9980	1174	9995	1174	10000	1174	10005
GR	1176	10040	1176.5	10100	1176	10180	1176.2	10205	1177.1	10240
GR	1176.8	10280	1178	10300	1180	10360	1180	10390	1182	10610

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Q1        1       374

          Q AT X1 = 3.813 TO X1 = 4.016 EQUALS Q AT CP28/2
          Q = 374 CFS

X1    3.813      17    9980   10035     500     500     500
GR   1181.2    9965    1180    9980    1178    9990  1176.8   10000    1178   10015
GR     1179   10035  1178.1   10050    1180   10065  1180.3   10075    1180   10085
GR   1178.3   10105    1180   10120    1182   10205  1180.8   10245    1182   10265
GR     1184   10350    1186   10570


          CAMELBACK ROAD

X1    3.930       9    9980   10020     615     615     615
GR   1184.5    9965    1184    9980    1182    9990  1180.2   10000    1182   10020
GR     1184   10060    1186   10210    1188   10350    1190   10500

    FLOW WILL BREAKOUT TO THE EAST OVER JACKRABBIT TRAIL FOR THE NEXT THREE
    UPSTREAM CROSS SECTIONS


X1    4.016       9    9990   10040     455     455     455
GR     1185    9955  1184.3    9965    1184    9990  1182.8   10000    1184   10040
GR     1184   10090    1186   10150    1188   10285    1190   10435

Q1        1       187

          Q AT X1 = 4.086 TO X1 = 4.152 EQUALS Q AT CP28/4
          Q = 187 CFS

X1    4.086       6    9965   10060     370     370     370
GR   1185.3    9965  1184.3   10000    1186   10060  1186.6   10160    1188   10220
GR     1190   10240


          MEDLOCK DRIVE

X1    4.152       7    9930   10030     350     350     350
GR   1185.5    9930    1183   10000    1184   10030    1186   10120    1188   10280
GR     1190   10350    1192   10470
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO .000

Q @ X1 = 0.000 TO X1 = 0.348 EQUALS Q AT (R46 + R46-1 + 1/5(WT4))
Q = 1591 + 108 + 200 = 1900 CFS

.000	1.61	1038.61	.00	1040.00	1038.87	.26	.00	.00	1038.00
1093.5	1.6	1088.4	3.6	.9	265.5	2.8	.0	.0	1038.00
.00	1.71	4.10	1.30	.030	.030	.040	.000	1037.00	9906.97
.005987	0.	0.	0.	0	0	5	.00	252.12	10159.09

*SECNO .070

.070	1.65	1041.15	.00	.00	1041.72	.56	2.76	.09	1040.00
1093.5	7.7	1069.0	16.8	2.3	175.8	6.7	1.9	1.7	1040.00
.02	3.27	6.08	2.51	.030	.030	.040	.000	1039.50	9910.95
.009560	370.	370.	370.	2	0	0	.00	140.61	10051.57

*SECNO .142

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

.142	2.31	1043.81	.00	.00	1044.11	.30	2.36	.03	1044.00
1093.5	.0	1093.5	.0	.0	250.2	.0	3.8	3.0	1044.00
.04	.00	4.37	.00	.000	.030	.000	.000	1041.50	9942.92
.004371	380.	380.	380.	3	0	0	.00	162.23	10105.14

*SECNO .228

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

.228	2.00	1046.50	1046.42	.00	1046.97	.47	2.80	.05	1046.00
1093.5	2.0	1073.0	18.5	1.1	193.4	13.0	6.2	4.9	1046.00
.06	1.89	5.55	1.42	.030	.030	.040	.000	1044.50	9940.64
.009340	450.	455.	450.	6	15	0	.00	211.63	10152.27

CCHV= .100 CEHV= .300

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .312
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.312	4.55	1050.55	1050.55	.00	1051.41	.86	3.49	.12	1050.00
1093.5	2.6	1060.9	30.0	1.5	140.1	23.2	8.1	6.8	1050.00
.08	1.72	7.57	1.29	.030	.030	.040	.000	1046.00	9964.52
.006810	420.	440.	460.	9	20	0	.00	145.35	10109.88

*SECNO .348

.348	4.02	1052.02	.00	.00	1052.55	.52	1.10	.03	1055.00
1093.5	.0	936.1	157.4	.0	151.7	61.7	9.0	7.5	1050.00
.09	.00	6.17	2.55	.000	.030	.040	.000	1048.00	9969.91
.004552	160.	190.	300.	2	0	0	.00	121.76	10091.67

CCHV= .100 CEHV= .300
*SECNO .440

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

Q @ X1 = 0.440 TO X1 = 0.668 EQUALS Q AT (R46 + (.15)WT4)
Q = 1591 + (.15)997 = 1741 CFS

.440	2.87	1054.67	.00	.00	1055.33	.66	2.74	.04	1054.00
934.5	3.4	926.0	5.1	1.6	141.2	3.3	11.0	8.7	1054.00
.11	2.05	6.56	1.54	.030	.030	.040	.000	1051.80	9975.03
.007568	510.	490.	410.	2	0	0	.00	89.91	10064.94

*SECNO .499
3280 CROSS SECTION .50 EXTENDED .77 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.76

.499	3.37	1056.27	.00	.00	1056.63	.36	1.27	.03	1055.50
963.4	.0	963.3	.1	.0	200.4	.1	12.2	9.2	1056.00
.13	.00	4.81	.48	.000	.030	.040	.000	1052.90	9955.00
.002599	325.	310.	225.	2	0	0	.00	75.83	10030.83

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .566
     .566      3.35   1057.15       .00       .00   1057.54       .39       .90       .01   1056.00
   1189.5       9.6    1175.7       4.3       5.6     233.2       3.4      14.0       9.9   1056.00
      .15      1.71      5.04      1.27      .030      .030      .040      .000   1053.80   9940.35
  .002502      350.      355.      350.         1         0         0       .00     95.45  10035.79


*SECNO  .610

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .610      2.84   1058.64   1058.64       .00   1059.69      1.05       .98       .20   1058.00
   1189.5       9.0    1175.5       5.0       4.1     142.5       3.1      15.1      10.4   1058.00
      .16      2.18      8.25      1.63      .030      .030      .040      .000   1055.80   9957.17
  .008831      230.      230.      230.        20        11         0       .00     82.46  10039.62


SECNO  .668
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .668      3.78   1061.48   1061.48       .00   1062.36       .88      2.42       .02   1060.00
   1189.5      32.4    1044.9     112.2       9.5     131.4      43.7      16.2      11.1   1060.00
      .17      3.41      7.95      2.57      .030      .030      .040      .000   1057.70   9967.14
  .007141      305.      305.      305.         3        11         0       .00    122.01  10089.15


CCHV=     .300 CEHV=     .500
*SECNO  .722
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

          Q @ X 1 = .722 TO X1 = 0.857 EQUALS Q AT CP46
          Q = 1737 CFS

     .722      2.94   1063.94   1063.94       .00   1064.91       .97      2.48       .05   1064.00
   1186.3        .0    1186.3        .0        .0     150.0        .0      17.3      11.8   1064.00
      .18       .00      7.91       .00      .000      .030      .000      .000   1061.00   9950.62
  .010904      280.      285.      280.         3        15         0       .00     79.06  10029.69
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .759

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1067.80 ELREA= 1067.80

5 - 10ft x 4ft x 52ft BC

.759	2.64	1065.24	.00	.00	1066.31	1.06	1.35	.05	1067.50
1186.3	.0	1186.3	.0	.0	143.3	.0	18.0	12.1	1067.50
.19	.00	8.28	.00	.000	.022	.000	.000	1062.60	9972.71
.004603	200.	200.	200.	3	0	0	.00	54.73	10027.45

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1064.62 , NOT 1065.24 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.50	2.50	.00	53.67	3.67	200.00	.00	1062.80	1062.60

*SECNO .769

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1065.29 BRIDGE VELOCITY= 9.14 CALCULATED CHANNEL AREA= 125.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1066.06	1066.82	.00	0.	1186.	200.	200.	1066.80	1068.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1068.50 ELREA= 1068.50

.769	3.33	1066.13	.00	.00	1066.82	.68	.51	.00	1068.50
1186.3	.0	1186.3	.0	.0	178.7	.0	18.2	12.2	1068.50
.19	.00	6.64	.00	.000	.022	.000	.000	1062.80	9972.67
.002239	52.	52.	52.	0	0	0	.00	54.50	10027.17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO .792

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

CONCRETE LINED CHANNEL BETWEEN THE TWO CULVERTS
INTERSTATE 10

.792	2.68	1066.18	1066.18	.00	1067.47	1.29	.40	.18	1067.50
1186.3	.0	1186.3	.0	.0	130.2	.0	18.6	12.3	1067.50
.19	.00	9.11	.00	.000	.022	.000	.000	1063.50	9974.52
.005534	120.	120.	120.	4	15	0	.00	51.03	10025.55

CCHV= .300 CEHV= .500
*SECNO .822
7185 MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

.822	2.69	1067.09	1067.09	.00	1068.37	1.29	.88	.00	1068.40
1186.3	.0	1186.3	.0	.0	130.3	.0	19.1	12.5	1068.40
.20	.00	9.10	.00	.000	.022	.000	.000	1064.40	9974.51
.005519	160.	160.	160.	1	5	0	.00	51.04	10025.55

*SECNO .847

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1071.70 ELREA= 1071.70

4 - 12ft x 4.5ft x 52ft BC

.847	3.07	1068.17	.00	.00	1069.03	.86	.53	.13	1071.70
1186.3	.0	1186.3	.0	.0	159.8	.0	19.5	12.6	1071.70
.20	.00	7.42	.00	.000	.022	.000	.000	1065.10	9973.89
.003098	130.	130.	130.	4	0	0	.00	52.83	10026.72

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1067.12 , NOT 1068.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.50	2.50	.00	53.67	3.67	200.00	.00	1065.40	1065.10

*SECNO .857
CLASS B LOW FLOW

3420 BRIDGE W.S.= 1067.84 BRIDGE VELOCITY= 9.15 CALCULATED CHANNEL AREA= 122.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1068.99	1069.46	.00	0.	1186.	200.	200.	1069.40	1071.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1071.70 ELREA= 1071.70

.857	3.33	1068.73	.00	.00	1069.46	.73	.43	.00	1071.70
1186.3	.0	1186.3	.0	.0	173.5	.0	19.7	12.7	1072.00
.20	.00	6.84	.00	.000	.022	.000	.000	1065.40	9973.82
.002382	52.	52.	52.	0	0	0	.00	52.99	10026.81

CCHV= .100 CEHV= .300
*SECNO .914
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q AT X1 = 0.914 TO X1 = 1.254 EQUALS Q AT CP46.
Q = 1737 CFS

.914	2.92	1073.42	1073.42	.00	1074.07	.65	.86	.01	1072.00
1186.3	73.2	894.4	218.7	14.8	127.9	50.2	21.0	13.4	1072.00
.22	4.93	6.99	4.36	.016	.022	.016	.000	1070.50	9954.79
.003484	301.	301.	301.	20	12	0	.00	146.06	10100.85

CCHV= .300 CEHV= .500
*SECNO .959

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1079.90 ELREA= 1079.90

MCDOWELL ROAD
4 - 12 X 4.5 FT. BOX CULVERTS

.959	2.48	1074.98	1074.98	.00	1076.23	1.25	.58	.30	1079.90
1186.3	.0	1186.3	.0	.0	132.4	.0	21.9	13.9	1080.10
.22	.00	8.96	.00	.000	.012	.000	.000	1072.50	9973.37
.001750	240.	240.	240.	20	11	0	.00	53.37	10026.73

AL BRIDGE

5227 DOWNSTREAM ELEV IS 1074.60 , NOT 1074.98 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.60	.00	51.25	3.25	216.00	.00	1073.50	1072.50

*SECNO .969

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1075.67 BRIDGE VELOCITY= 9.26 CALCULATED CHANNEL AREA= 104.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1077.57	.00	0.	1186.	216.	216.	1078.00	1079.90	0.

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1079.90 ELREA=      1079.90

     .969      3.40   1076.90       .00       .00   1077.57       .66      1.34       .00   1079.90
   1186.3        .0    1186.3        .0        .0     181.5        .0      22.1      14.0   1080.10
     .23       .00      6.53       .00      .000      .012      .000      .000   1073.50   9973.35
  .000638       52.       52.       52.         0         0         0       .00     53.41  10026.75


CCHV=     .100 CEHV=     .300
*SECNO 1.016
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.016      3.79   1079.39   1079.39       .00   1079.86       .48       .28       .02   1078.00
   1186.3      13.5     868.8     303.9       5.8     137.4     136.0      23.4      15.1   1078.00
      .24      2.35      6.32      2.23      .025      .025      .025      .000   1075.60   9971.68
  .002584      250.      250.      250.        20         8         0       .00    336.10  10307.78


     .100 CEHV=     .300
*SECNO 1.064

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.064      3.83   1081.43   1081.43       .00   1082.79      1.36      1.09       .27   1080.00
   1186.3      15.9    1151.7      18.7       5.1     121.3      10.3      24.6      16.3   1080.00
      .25      3.09      9.49      1.82      .035      .030      .060      .000   1077.60   9972.84
  .008483      253.      253.      253.        20         9         0       .00     61.49  10034.33


*SECNO 1.159
    1.159      3.38   1085.88   1085.73       .00   1086.80       .93      3.97       .04   1084.00
   1186.3      30.4    1065.9      89.9       8.8     131.3      44.0      26.5      17.2   1084.00
      .26      3.46      8.12      2.05      .035      .030      .060      .000   1082.50   9970.62
  .007435      500.      500.      500.         6        11         0       .00    106.27  10076.89


*SECNO 1.254
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3280 CROSS SECTION 1.25 EXTENDED .11 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.254	4.71	1090.51	1090.51	.00	1091.84	1.33	3.83	.12	1090.00
1191.1	8.1	1180.7	2.3	4.7	127.0	2.6	28.3	18.2	1090.00
.28	1.73	9.30	.89	.035	.030	.060	.000	1085.80	9965.00
.007895	500.	500.	500.	3	11	0	.00	65.24	10030.24

*SECNO 1.348

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 1.348 TO X1 = 1.631 EQUALS (Q AT CP46 + Q AT CP31)/2
Q = (1737 + 1258)/2 = 1498 CFS

1.348	3.12	1094.62	.00	.00	1095.24	.62	3.33	.07	1094.00
954.8	1.4	948.6	4.9	1.0	149.2	5.8	29.9	19.1	1094.00
.30	1.43	6.36	.84	.035	.030	.060	.000	1091.50	9981.88
.005488	500.	500.	500.	3	0	0	.00	86.81	10068.69

*SECNO 1.443
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.443	3.31	1098.91	1098.91	.00	1099.74	.83	3.14	.06	1098.00
954.8	8.9	899.3	46.7	4.2	119.6	37.4	31.8	20.4	1098.00
.32	2.14	7.52	1.25	.035	.030	.060	.000	1095.60	9970.89
.007270	500.	500.	500.	2	8	0	.00	141.13	10112.01

*SECNO 1.536
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.536	3.53	1103.63	1103.63	.00	1104.45	.82	3.52	.00	1102.00
954.8	57.5	807.0	90.3	17.7	103.1	49.6	33.6	21.9	1102.00
.34	3.24	7.83	1.82	.035	.030	.060	.000	1100.10	9961.83
.007116	490.	490.	490.	2	8	0	.00	124.18	10086.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.631
3280 CROSS SECTION 1.63 EXTENDED .08 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.631	3.18	1108.28	1108.28	.00	1109.00	.72	3.48	.01	1106.00
954.8	80.7	654.8	219.4	20.8	82.0	93.6	35.7	23.4	1106.00
.36	3.89	7.98	2.35	.035	.030	.060	.000	1105.10	9964.35
.006812	500.	500.	500.	3	15	0	.00	145.65	10110.00

*SECNO 1.725
3280 CROSS SECTION 1.73 EXTENDED .19 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 1.725 TO X1 = 2.482 EQUALS Q AT CP31
Q = 1258 CFS

1.725	3.19	1113.19	1113.19	.00	1114.01	.82	3.34	.03	1110.00
905.5	180.9	689.1	35.5	42.7	85.7	25.1	37.7	24.9	1112.00
.38	4.24	8.04	1.42	.035	.030	.060	.000	1110.00	9950.00
.006546	500.	500.	500.	3	5	0	.00	112.06	10062.06

*SECNO 1.818
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.818	3.23	1117.43	1117.43	.00	1118.44	1.01	3.45	.06	1116.00
1105.4	66.9	1025.5	13.1	19.9	122.9	7.7	39.5	26.0	1116.00
.40	3.36	8.35	1.71	.035	.030	.060	.000	1114.20	9953.86
.007501	490.	490.	490.	3	5	0	.00	81.87	10035.73

*SECNO 1.913
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.913	3.68	1121.18	1121.18	.00	1122.43	1.25	3.88	.07	1120.00
1105.4	18.7	1075.8	10.9	7.0	118.6	7.0	41.1	26.8	1120.00
.42	2.67	9.07	1.56	.035	.030	.060	.000	1117.50	9978.17
.008040	500.	500.	500.	3	8	0	.00	63.66	10041.83

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.008
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

THOMAS ROAD

2.008	4.31	1125.31	1125.31	.00	1126.31	.99	3.58	.03	1124.00
1105.4	49.2	1017.4	38.8	17.3	122.5	25.9	42.8	27.8	1124.00
.43	2.85	8.30	1.50	.035	.030	.060	.000	1121.00	9953.73
.006419	500.	500.	500.	3	8	0	.00	105.67	10059.40

*SECNO 2.107
3280 CROSS SECTION 2.11 EXTENDED .23 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.107	4.53	1131.03	1131.03	.00	1132.01	.97	3.51	.00	1130.00
1105.4	42.4	1033.0	29.9	15.6	126.5	22.5	44.8	29.1	1130.00
.45	2.72	8.17	1.33	.035	.030	.060	.000	1126.50	9950.00
.006978	525.	525.	525.	3	8	0	.00	113.50	10063.50

*SECNO 2.202

2.202	4.44	1133.94	.00	.00	1134.92	.98	2.91	.00	1132.00
1105.4	27.3	1045.9	32.2	9.5	128.1	18.9	46.6	30.2	1132.00
.47	2.89	8.17	1.70	.035	.030	.060	.000	1129.50	9975.27
.004929	500.	500.	500.	1	0	0	.00	64.18	10039.45

*SECNO 2.296
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.296	3.70	1137.40	1137.40	.00	1138.35	.95	2.90	.00	1136.00
1105.4	31.4	1017.7	56.3	10.4	125.4	32.8	48.5	31.2	1136.00
.49	3.02	8.12	1.72	.035	.030	.060	.000	1133.70	9968.28
.006942	500.	500.	500.	3	15	0	.00	119.96	10088.23

*SECNO 2.389

2.389	3.29	1140.49	.00	.00	1141.07	.58	2.68	.04	1138.00
1105.4	165.6	868.2	71.5	45.9	130.1	41.8	50.7	32.7	1138.00
.51	3.61	6.68	1.71	.035	.030	.060	.000	1137.20	9950.10
.004415	490.	490.	490.	3	0	0	.00	148.93	10099.02

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.482

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

2.482	3.10	1143.70	1143.66	.00	1144.44	.75	3.32	.05	1143.00
1105.4	544.0	561.4	.0	80.3	79.3	.0	52.8	34.2	1144.00
.53	6.78	7.08	.00	.035	.030	.000	.000	1140.60	9923.04
.011730	490.	490.	490.	4	11	0	.00	103.93	10026.96

*SECNO 2.576

3265 DIVIDED FLOW

3280 CROSS SECTION 2.58 EXTENDED .04 FEET

3301 HV CHANGED MORE THAN HVINS

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.00

Q @ X1 = 2.576 TO X1 EQUALS (Q AT CP31 + Q AT CP30)/2
Q = (1258 + 879)/2 = 1068 CFS

2.576	4.34	1146.44	.00	.00	1146.65	.21	2.16	.05	1145.80
915.4	531.1	381.9	2.4	141.8	105.2	7.0	55.1	35.7	1146.00
.57	3.74	3.63	.34	.035	.030	.060	.000	1142.10	9915.00
.002016	495.	495.	495.	4	0	0	.00	166.43	10110.13

*SECNO 2.670

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

2.670	3.67	1147.77	.00	.00	1148.12	.35	1.42	.04	1147.00
915.4	636.7	278.7	.0	126.1	69.9	.0	57.7	37.3	1148.00
.60	5.05	3.99	.00	.035	.030	.000	.000	1144.10	9921.23
.004326	500.	500.	500.	2	0	0	.00	115.21	10036.45

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 2.765
   2.765     2.73   1149.93       .00       .00   1150.23       .30      2.10       .01   1150.00
   915.4       .0     915.4       .0       .0     209.0       .0      60.0      38.7   1150.00
     .63      .00      4.38       .00      .000      .030      .000      .000   1147.20   9930.35
  .004088     500.      500.      500.         3         0         0       .00    128.27  10058.61


*SECNO 2.860
   2.860     2.41   1152.11   1151.68       .00   1152.52       .41      2.26       .03   1152.00
   915.4       .0     850.7      64.7       .0     159.7      51.6      62.5      40.8   1150.00
     .66      .03      5.33      1.25      .035      .030      .060      .000   1149.70   9934.28
  .005011     500.      500.      500.         6        12         0       .00    243.28  10177.56


*SECNO 2.912

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3780 CRITICAL DEPTH ASSUMED
   2.912     3.51   1154.11   1154.11       .00   1155.15      1.04      2.12       .19   1154.00
   915.4       .1     915.2       .1       .1     112.0       .3      63.6      41.9   1154.00
     .67      .63      8.17       .37      .035      .030      .060      .000   1150.60   9963.08
  .010650     300.      300.      300.         7        14         0       .00     62.42  10025.50


*SECNO 2.973

          Q @ X1 = 2.973 TO X1 = 3.342 EQUALS Q AT CP30
          Q = 879 CFS
          INDIAN SCHOOL ROAD

   2.973     3.02   1157.02       .00       .00   1157.58       .56      2.38       .05   1158.00
   726.4       .0     726.4       .0       .0     121.4       .0      64.4      42.3   1158.00
     .68      .00      5.98       .00      .000      .030      .000      .000   1154.00   9954.88
  .005793     300.      300.      300.         2         0         0       .00     60.23  10015.12


*SECNO 3.059

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.33

   3.059     3.44   1158.44       .00       .00   1158.56       .12       .94       .04   1158.00
   726.4       .2     553.1     173.1       .5     176.1     135.4      66.6      43.4   1156.00
     .73      .50      3.14      1.28      .035      .030      .060      .000   1155.00   9957.80
  .001070     450.      450.      450.         2         0         0       .00    148.30  10106.10
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.154

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.154	2.54	1159.84	1159.84	.00	1160.70	.85	1.26	.22	1160.00
726.4	.0	726.4	.0	.0	97.9	.0	69.0	44.6	1160.00
.75	.00	7.42	.00	.000	.030	.000	.000	1157.30	9975.79
.011253	505.	505.	505.	20	19	0	.00	58.02	10033.81

*SECNO 3.247

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.72

3.247	3.77	1163.17	.00	.00	1163.71	.54	2.99	.03	1162.00
726.4	39.0	683.8	3.6	21.2	113.0	3.4	70.3	45.4	1162.00
.77	1.84	6.05	1.06	.035	.030	.060	.000	1159.40	9933.88
.003812	490.	490.	490.	3	0	0	.00	81.99	10015.87

*SECNO 3.342
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.342	2.92	1166.02	1166.02	.00	1167.05	1.02	3.01	.14	1166.00
726.4	.0	726.4	.0	.0	89.5	.0	71.6	46.1	1166.00
.79	.00	8.11	.00	.000	.030	.000	.000	1163.10	9974.94
.010916	500.	500.	500.	1	15	0	.00	45.12	10020.06

*SECNO 3.436

Q @ X1 = 3.436 TO X1 = 3.719 EQUALS Q AT CP28
Q = 747 CFS

3.436	3.01	1170.71	.00	.00	1171.43	.71	4.35	.03	1170.00
594.4	5.8	587.2	1.3	3.2	86.1	1.3	72.6	46.7	1170.00
.81	1.79	6.82	1.03	.035	.030	.060	.000	1167.70	9980.99
.006942	495.	495.	500.	2	0	0	.00	52.61	10033.60

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.530

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

3.530	2.79	1172.69	.00	.00	1172.85	.16	1.37	.06	1172.00
594.4	2.9	508.4	83.1	3.7	148.0	73.6	74.5	47.8	1170.30
.85	.80	3.44	1.13	.035	.030	.060	.000	1169.90	9969.36
.001450	500.	500.	500.	2	0	0	.00	145.21	10114.58

*SECNO 3.625
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.625	1.86	1174.16	1174.16	.00	1174.57	.40	1.51	.07	1174.00
594.4	.1	529.9	64.4	.1	98.4	48.5	76.6	49.9	1173.50
.88	.78	5.38	1.33	.035	.030	.060	.000	1172.30	9963.54
.009722	500.	500.	500.	2	23	0	.00	217.16	10180.70

*SECNO 3.719

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.80

3.719	2.80	1176.80	.00	.00	1177.04	.24	2.45	.02	1176.00
594.4	5.9	497.8	90.7	4.7	117.5	99.9	78.7	52.6	1176.00
.92	1.25	4.24	.91	.035	.030	.060	.000	1174.00	9968.13
.002999	495.	495.	495.	1	0	0	.00	259.88	10228.00

*SECNO 3.813

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q AT X1 = 3.813 TO X1 = 4.016 EQUALS Q AT CP28/2
Q = 374 CFS

3.813	1.96	1178.76	1178.76	.00	1179.16	.40	2.01	.05	1180.00
221.4	.0	212.4	9.0	.0	41.1	7.4	80.2	54.5	1179.00
.94	.00	5.17	1.21	.000	.030	.060	.000	1176.80	9986.22
.011988	500.	500.	500.	3	16	0	.00	69.46	10109.03

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.930

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.76

CAMELBACK ROAD

3.930	2.59	1182.79	.00	.00	1183.05	.26	3.88	.01	1184.00
221.4	.0	216.0	5.4	.0	52.6	6.4	81.0	55.3	1182.00
.99	.00	4.10	.84	.000	.030	.060	.000	1180.20	9985.99
.003880	615.	615.	615.	4	0	0	.00	50.03	10036.03

*SECNO 4.016

4.016	1.75	1184.55	.00	.00	1184.68	.12	1.62	.01	1184.00
221.4	13.5	178.9	29.0	10.5	57.6	32.2	81.8	56.3	1184.00
1.03	1.29	3.11	.90	.035	.030	.060	.000	1182.80	9961.40
.003264	455.	455.	455.	4	0	0	.00	145.15	10106.55

*SECNO 4.086
3280 CROSS SECTION 4.09 EXTENDED .24 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

Q AT X1 = 4.086 TO X1 = 4.152 EQUALS Q AT CP28/4
Q = 187 CFS

4.086	1.25	1185.55	.00	.00	1185.58	.03	.89	.01	1185.30
68.5	.0	68.5	.0	.0	53.4	.0	82.5	57.3	1186.00
1.11	.00	1.28	.00	.000	.030	.000	.000	1184.30	9965.00
.001133	370.	370.	370.	2	0	0	.00	78.93	10043.93

*SECNO 4.152
3280 CROSS SECTION 4.15 EXTENDED .17 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.22

MEDLOCK DRIVE

4.152	2.67	1185.67	.00	.00	1185.68	.01	.11	.00	1185.50
187.0	.0	166.8	20.2	.0	164.1	62.4	83.6	58.3	1184.00
1.22	.00	1.02	.32	.000	.030	.060	.000	1183.00	9930.00
.000218	350.	350.	350.	4	0	0	.00	174.95	10104.95

TW STARTING AT CROSS SECTION 0.440 TO 0.499

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
28.87	28.80	.22	28.87	28.80	.22	21	1054.666	1056.270	.440	.499

TW BREAKOUT FROM CROSS SECTION 0.499 TO 0.566

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
226.16	225.75	.18	255.03	254.55	.19	21	1056.270	1057.151	.499	.566

TW BREAKOUT FLOWS FROM CROSS SECTION 0.566 TO 0.616.

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.03	254.55	.19	21	1057.151	1058.935	.566	.616

TW BREAKOUT FLOW FROM CROSS SECTION 0.616 TO 0.668.

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.03	254.55	.19	21	1058.935	1061.479	.616	.668

TW BREAKOUT FLOWS FROM CROSS SECTION 0.688 TO 0.722.

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.73	.47	43.67	255.76	255.02	.29	21	1062.390	1063.938	.688	.722

TW BREAKOUT FLOWS FROM CROSS SECTION 0.722 TO 0.759

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.76	255.02	.29	21	1063.938	1065.244	.722	.759

TW BREAKOUT FLOWS FROM CROSS SECTION 0.969 TO 1.016

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.76	255.02	.29	21	1076.902	1079.387	.969	1.016

TW BREAKOUT FLOWS FROM CROSS SECTION 1.016 TO 1.064

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.76	255.02	.29	21	1079.387	1081.433	1.016	1.064

TW BREAKOUT FLOWS FROM CROSS SECTION 1.064 TO 1.159

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	255.76	255.02	.29	21	1081.433	1085.875	1.064	1.159

TW BREAKOUT FLOWS FROM CROSS SECTION 1.159 TO 1.254

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.89	4.82	1.32	260.65	259.84	.31	21	1085.875	1090.512	1.159	1.254

TW BREAKOUT FLOWS FROM CROSS SECTION 1.254 TO 1.348

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2.70	2.66	1.37	263.35	262.51	.32	21	1090.512	1094.621	1.254	1.348

TW BREAKOUT FLOWS FROM CROSS SECTION 1.348 TO 1.443

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	263.35	262.51	.32	21	1094.621	1098.911	1.348	1.443

TW BREAKOUT FLOWS FROM CROSS SECTION 1.443 TO 1.536

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	263.35	262.51	.32	21	1098.911	1103.627	1.443	1.536

TW BREAKOUT FLOWS FROM CROSS SECTION 1.536 TO 1.631

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	263.35	262.51	.32	21	1103.627	1108.284	1.536	1.631

TW BREAKOUT FLOWS FROM CROSS SECTION 1.631 TO 1.725

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
190.68	190.23	.23	454.03	452.74	.28	21	1108.284	1113.192	1.631	1.725

TW BREAKOUT FLOWS FROM CROSS SECTION 1.725 TO 1.818

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
199.86	199.43	.22	653.89	652.17	.26	21	1113.192	1117.430	1.725	1.818

BREAKOUT FLOWS FROM CROSS SECTION 3.930 TO 4.016

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	653.89	652.17	.26	21	1182.793	1184.553	3.930	4.016

TW BREAKOUT FLOWS FROM CROSS SECTION 4.016 TO 4.086

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
34.08	34.09	.00	687.97	686.26	.25	21	1184.553	1185.552	4.016	4.086

TW BREAKOUT FLOWS FROM CROSS SECTION 4.086 TO 4.152

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
118.53	118.53	.00	806.50	804.79	.21	21	1185.552	1185.670	4.086	4.152

PROFILE FOR STREAM JACKRABBIT TRAIL WASH -

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1037.	1057.	1077.	1097.	1117.	1137.	1157.	1177.	1197.	1217.
SECNO	CUMDIS									
.00	0.	IE M	.	.	.	.	.	.	.	.	.	.
	50.	IE M	.	.	.	.	.	.	.	.	.	.
	100.	IE M	.	.	.	.	.	.	.	.	.	.
	150.	CWEM	.	.	.	.	.	.	.	.	.	.
	200.	CWEM	.	.	.	.	.	.	.	.	.	.
	250.	CIEM	.	.	.	.	.	.	.	.	.	.
	300.	CIEM	.	.	.	.	.	.	.	.	.	.
	350.	CIEM	.	.	.	.	.	.	.	.	.	.
.07	400.	CIE M	.	.	.	.	.	.	.	.	.	.
	450.	CIWEM	.	.	.	.	.	.	.	.	.	.
	500.	C WEM	.	.	.	.	.	.	.	.	.	.
	550.	C IEM	.	.	.	.	.	.	.	.	.	.
	600.	C IEM	.	.	.	.	.	.	.	.	.	.
	650.	C IEM	.	.	.	.	.	.	.	.	.	.
	700.	C IEM	.	.	.	.	.	.	.	.	.	.
.14	750.	C IWEM	.	.	.	.	.	.	.	.	.	.
	800.	C I EM	.	.	.	.	.	.	.	.	.	.
	850.	C IEM	.	.	.	.	.	.	.	.	.	.
	900.	C IEM	.	.	.	.	.	.	.	.	.	.
	950.	C IE M	.	.	.	.	.	.	.	.	.	.
	1000.	C IE M	.	.	.	.	.	.	.	.	.	.
	1050.	C IE M	.	.	.	.	.	.	.	.	.	.
	1100.	C IWE M	.	.	.	.	.	.	.	.	.	.
	1150.	C IE M	.	.	.	.	.	.	.	.	.	.
	1200.	C IE M	.	.	.	.	.	.	.	.	.	.
.23	1250.	. IE M	.	.	.	.	.	.	.	.	.	.
	1300.	. IE M	.	.	.	.	.	.	.	.	.	.
	1350.	. IE M	.	.	.	.	.	.	.	.	.	.
	1400.	. IWEM	.	.	.	.	.	.	.	.	.	.
	1450.	. ILEM	.	.	.	.	.	.	.	.	.	.
	1500.	. I EM	.	.	.	.	.	.	.	.	.	.
	1550.	. I EM	.	.	.	.	.	.	.	.	.	.
	1600.	. I WE	.	.	.	.	.	.	.	.	.	.
.31	1650.	. I E	.	.	.	.	.	.	.	.	.	.
	1700.	C I EM	.	.	.	.	.	.	.	.	.	.
	1750.	C I WE	.	.	.	.	.	.	.	.	.	.
	1800.	C I WEM	.	.	.	.	.	.	.	.	.	.
.35	1850.	C IREL	.	.	.	.	.	.	.	.	.	.
	1900.	C IREL	.	.	.	.	.	.	.	.	.	.
	1950.	C IREL	.	.	.	.	.	.	.	.	.	.
	2000.	C IREL	.	.	.	.	.	.	.	.	.	.
	2050.	C IREL	.	.	.	.	.	.	.	.	.	.
	2100.	C I EL	.	.	.	.	.	.	.	.	.	.
	2150.	C IWE	.	.	.	.	.	.	.	.	.	.
	2200.	C IWE	.	.	.	.	.	.	.	.	.	.
	2250.	C IRE	.	.	.	.	.	.	.	.	.	.
	2300.	C IRE	.	.	.	.	.	.	.	.	.	.
.44	2350.	C I EM	.	.	.	.	.	.	.	.	.	.
	2400.	C I E	.	.	.	.	.	.	.	.	.	.
	2450.	C IE	.	.	.	.	.	.	.	.	.	.

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     2500.  C     IE.        .    .    .    .    .    .    .    .    .
     2550.  C     IWE        .    .    .    .    .    .    .    .    .
     2600.  C     IWE        .    .    .    .    .    .    .    .    .
 .50 2650.  C     ILE        .    .    .    .    .    .    .    .    .
     2700.  C     ILE        .    .    .    .    .    .    .    .    .
     2750.  C     ILE        .    .    .    .    .    .    .    .    .
     2800.  C     ILE        .    .    .    .    .    .    .    .    .
     2850.  C     ILE        .    .    .    .    .    .    .    .    .
     2900.  C     ILE        .    .    .    .    .    .    .    .    .
     2950.  C     ILE        .    .    .    .    .    .    .    .    .
 .57 3000.  C     I E        .    .    .    .    .    .    .    .    .
     3050.  C      IWE       .    .    .    .    .    .    .    .    .
     3100.  C      IWE       .    .    .    .    .    .    .    .    .
     3150.  C      ILE       .    .    .    .    .    .    .    .    .
     3200.  C      ILE       .    .    .    .    .    .    .    .    .
 .61 3250.  .      I.E       .    .    .    .    .    .    .    .    .
     3300.  .       IWE      .    .    .    .    .    .    .    .    .
     3350.  .       IWE      .    .    .    .    .    .    .    .    .
     3400.  .       ILE      .    .    .    .    .    .    .    .    .
     3450.  .       ILE      .    .    .    .    .    .    .    .    .
     3500.  .       ILE      .    .    .    .    .    .    .    .    .
 .67 3550.  .       I WE     .    .    .    .    .    .    .    .    .
     3600.  .       .IWE     .    .    .    .    .    .    .    .    .
     3650.  .       .ILE     .    .    .    .    .    .    .    .    .
     3700.  .       .I E     .    .    .    .    .    .    .    .    .
     3750.  .       . IWE    .    .    .    .    .    .    .    .    .
     3800.  .       . IWE    .    .    .    .    .    .    .    .    .
 .72 3850.  .       . IWE    .    .    .    .    .    .    .    .    .
     3900.  C       . I E    .    .    .    .    .    .    .    .    .
     3950.  C       . I EM   .    .    .    .    .    .    .    .    .
     4000.  C       .  IEL   .    .    .    .    .    .    .    .    .
 .76 4050.  C       .  IWE   .    .    .    .    .    .    .    .    .
 .77 4100.  C       .  I ELM .    .    .    .    .    .    .    .    .
     4150.  C       .  I ELM .    .    .    .    .    .    .    .    .
 .79 4200.  .       .  I E M .    .    .    .    .    .    .    .    .
     4250.  .       .  I E M .    .    .    .    .    .    .    .    .
     4300.  .       .   IWEM .    .    .    .    .    .    .    .    .
 .82 4350.  .       .   IWEM .    .    .    .    .    .    .    .    .
     4400.  C       .   IWEM .    .    .    .    .    .    .    .    .
     4450.  C       .   IWEL .    .    .    .    .    .    .    .    .
 .85 4500.  C       .   I EL .    .    .    .    .    .    .    .    .
 .86 4550.  C       .   I ELR .   .    .    .    .    .    .    .    .
     4600.  C       .    IWER .   .    .    .    .    .    .    .    .
     4650.  C       .    I ER .   .    .    .    .    .    .    .    .
     4700.  C       .    I ER .   .    .    .    .    .    .    .    .
     4750.  C       .     IWE .   .    .    .    .    .    .    .    .
     4800.  C       .     ILE .   .    .    .    .    .    .    .    .
 .91 4850.  .       .      IWE.  .    .    .    .    .    .    .    .
     4900.  .       .      IWE.  .    .    .    .    .    .    .    .
     4950.  .       .      I EM  .    .    .    .    .    .    .    .
     5000.  .       .      I EL  .    .    .    .    .    .    .    .
     5050.  .       .       IE.L .    .    .    .    .    .    .    .
 .96 5100.  .       .       IWELR .   .    .    .    .    .    .    .
 .97 5150.  C       .       I ELR .   .    .    .    .    .    .    .
     5200.  C       .       I WEM .   .    .    .    .    .    .    .
     5250.  C       .        IWEM .   .    .    .    .    .    .    .
     5300.  C       .        I.EM .   .    .    .    .    .    .    .
     5350.  C       .        I.EM .   .    .    .    .    .    .    .
1.02 5400.  .       .        I.EM .   .    .    .    .    .    .    .
     5450.  .       .        I.WE .   .    .    .    .    .    .    .
     5500.  .       .         ILE .   .    .    .    .    .    .    .
     5550.  .       .         ILEM .  .    .    .    .    .    .    .
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      5600.  .     .     ILWE   .     .     .     .     .     .     .     .
1.06  5650.  .     .     I WE   .     .     .     .     .     .     .     .
      5700.  .     .     .IWE   .     .     .     .     .     .     .     .
      5750.  .     .     .ILE   .     .     .     .     .     .     .     .
      5800.  .     .     .ILE   .     .     .     .     .     .     .     .
      5850.  .     .     .ILWE  .     .     .     .     .     .     .     .
      5900.  .     .     . IWE  .     .     .     .     .     .     .     .
      5950.  .     .     . ILE  .     .     .     .     .     .     .     .
      6000.  .     .     . ILE  .     .     .     .     .     .     .     .
      6050.  .     .     . ILE  .     .     .     .     .     .     .     .
      6100.  .     .     .  IWE .     .     .     .     .     .     .     .
1.16  6150.  .     .     .  IWE .     .     .     .     .     .     .     .
      6200.  .     .     .  ILE .     .     .     .     .     .     .     .
      6250.  .     .     .  ILE .     .     .     .     .     .     .     .
      6300.  .     .     .  ILWE.     .     .     .     .     .     .     .
      6350.  .     .     .  I WE.     .     .     .     .     .     .     .
      6400.  .     .     .   ILE.     .     .     .     .     .     .     .
      6450.  .     .     .   ILE.     .     .     .     .     .     .     .
      6500.  .     .     .   I WE.     .     .     .     .     .     .     .
      6550.  .     .     .   I WE.     .     .     .     .     .     .     .
      6600.  .     .     .   I LE.     .     .     .     .     .     .     .
1.25  6650.  .     .     .   I  E.     .     .     .     .     .     .     .
      6700.  C     .     .    I WE.     .     .     .     .     .     .     .
      6750.  C     .     .    I WE.     .     .     .     .     .     .     .
      6800.  C     .     .    I WE.     .     .     .     .     .     .     .
      6850.  C     .     .     ILE.     .     .     .     .     .     .     .
      6900.  C     .     .     I E.     .     .     .     .     .     .     .
      6950.  C     .     .     I E.     .     .     .     .     .     .     .
      7000.  C     .     .     I WE.    .     .     .     .     .     .     .
      7050.  C     .     .      IWE.    .     .     .     .     .     .     .
      7100.  C     .     .      ILE.    .     .     .     .     .     .     .
1.35  7150.  C     .     .      I E.    .     .     .     .     .     .     .
      7200.  C     .     .      I E.    .     .     .     .     .     .     .
      7250.  C     .     .       IWE    .     .     .     .     .     .     .
      7300.  C     .     .       IWE    .     .     .     .     .     .     .
      7350.  C     .     .       ILE    .     .     .     .     .     .     .
      7400.  C     .     .       I E    .     .     .     .     .     .     .
      7450.  C     .     .       I E    .     .     .     .     .     .     .
      7500.  C     .     .        IWE   .     .     .     .     .     .     .
      7550.  C     .     .        ILE   .     .     .     .     .     .     .
      7600.  C     .     .        ILE   .     .     .     .     .     .     .
1.44  7650.  .     .     .        I.E   .     .     .     .     .     .     .
      7700.  .     .     .         IWE  .     .     .     .     .     .     .
      7750.  .     .     .         IWE  .     .     .     .     .     .     .
      7800.  .     .     .         ILE  .     .     .     .     .     .     .
      7850.  .     .     .         ILE  .     .     .     .     .     .     .
      7900.  .     .     .         I WE .     .     .     .     .     .     .
      7950.  .     .     .         .IWE .     .     .     .     .     .     .
      8000.  .     .     .         .ILE .     .     .     .     .     .     .
      8050.  .     .     .         .ILE .     .     .     .     .     .     .
      8100.  .     .     .         .ILWE.     .     .     .     .     .     .
1.54  8150.  .     .     .         . IWE.     .     .     .     .     .     .
      8200.  .     .     .         . ILE.     .     .     .     .     .     .
      8250.  .     .     .         . ILE.     .     .     .     .     .     .
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      8350.  .     .     .         .  IWE     .     .     .     .     .     .
      8400.  .     .     .         .  IWE     .     .     .     .     .     .
      8450.  .     .     .         .  ILE     .     .     .     .     .     .
      8500.  .     .     .         .  ILE     .     .     .     .     .     .
      8550.  .     .     .         .   IWE    .     .     .     .     .     .
      8600.  .     .     .         .   IWE    .     .     .     .     .     .
1.63  8650.  .     .     .         .   ILE    .     .     .     .     .     .
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      8700.  .         .         .         .  ILE   .         .         .         .         .         .         .
      8750.  .         .         .         .   IWE  .         .         .         .         .         .         .
      8800.  .         .         .         .   IWE  .         .         .         .         .         .         .
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      9050.  .         .         .         .    IRE .         .         .         .         .         .         .
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      9350.  .         .         .         .     ILE.         .         .         .         .         .         .
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      9700.  .         .         .         .       ILE        .         .         .         .         .         .
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      9950.  .         .         .         .        ILE       .         .         .         .         .         .
     10000.  .         .         .         .        ILE       .         .         .         .         .         .
     10050.  .         .         .         .        ILWE      .         .         .         .         .         .
 1.91 10100.  .         .         .         .        I WE      .         .         .         .         .         .
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     11750.  C         .         .         .        .      ILE.         .         .         .         .         .
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      20650.  C        .        .        .        .        .        .      .IRE     .        .        .
      20700.  C        .        .        .        .        .        .      .IREM    .        .        .
3.93  20750.  C        .        .        .        .        .        .      . IEL    .        .        .
      20800.  C        .        .        .        .        .        .      . IEL    .        .        .
      20850.  C        .        .        .        .        .        .      . IEL    .        .        .
      20900.  C        .        .        .        .        .        .      . IEL    .        .        .
      20950.  C        .        .        .        .        .        .      . IEL    .        .        .
      21000.  C        .        .        .        .        .        .      . IEL    .        .        .
      21050.  C        .        .        .        .        .        .      . IWE    .        .        .
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	21100.	C	.	.	.	.	.	.	.	IE	.	.	.
	21150.	C	.	.	.	.	.	.	.	IE	.	.	.
	21200.	C	.	.	.	.	.	.	.	IE	.	.	.
4.02	21250.	C	.	.	.	.	.	.	.	IE	.	.	.
	21300.	C	.	.	.	.	.	.	.	IE	.	.	.
	21350.	C	.	.	.	.	.	.	.	IE	.	.	.
	21400.	C	.	.	.	.	.	.	.	IE	.	.	.
	21450.	C	.	.	.	.	.	.	.	IE	.	.	.
	21500.	C	.	.	.	.	.	.	.	IE	.	.	.
	21550.	C	.	.	.	.	.	.	.	E	.	.	.
4.09	21600.	C	.	.	.	.	.	.	.	ER	.	.	.
	21650.	C	.	.	.	.	.	.	.	E	.	.	.
	21700.	C	.	.	.	.	.	.	.	IE	.	.	.
	21750.	C	.	.	.	.	.	.	.	IE	.	.	.
	21800.	C	.	.	.	.	.	.	.	IE	.	.	.
	21850.	C	.	.	.	.	.	.	.	IE	.	.	.
	21900.	C	.	.	.	.	.	.	.	IE	.	.	.
4.15	21950.	C	.	.	.	.	.	.	.	IE	.	.	.

THIS RUN EXECUTED 18FEB92 08:22:31

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

JACKRABBIT TRAIL WASH -

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	1093.50	1038.61	9906.97	9910.00	10150.00	10159.09	.00	252.12	1.61	1037.00	59.87	4.10
	.070	1093.50	1041.15	9910.95	9915.00	10040.00	10051.57	2.55	140.61	1.65	1039.50	95.60	6.08
*	.142	1093.50	1043.81	9942.92	9940.00	10110.00	10105.14	2.66	162.23	2.31	1041.50	43.71	4.37
	.228	1093.50	1046.50	9940.64	9945.00	10100.00	10152.27	2.68	211.63	2.00	1044.50	93.40	5.55
*	.312	1093.50	1050.55	9964.52	9970.00	10025.00	10109.88	4.05	145.35	4.55	1046.00	68.10	7.57
	.348	1093.50	1052.02	9969.91	9960.00	10030.00	10091.67	1.48	121.76	4.02	1048.00	45.52	6.17
*	.440	934.50	1054.67	9975.03	9980.00	10055.00	10064.94	2.64	89.91	2.87	1051.80	75.68	6.56
*	.499	963.37	1056.27	9955.00	9955.00	10030.00	10030.83	1.60	75.83	3.37	1052.90	25.99	4.81
	.566	1189.53	1057.15	9940.35	9950.00	10030.00	10035.79	.88	95.45	3.35	1053.80	25.02	5.04
*	.610	1189.53	1058.64	9957.17	9970.00	10030.00	10039.62	1.49	82.46	2.84	1055.80	88.31	8.25
*	.668	1189.53	1061.48	9967.14	9980.00	10030.00	10089.15	2.84	122.01	3.78	1057.70	71.41	7.95
*	.722	1186.26	1063.94	9950.62	9950.00	10030.00	10029.69	2.46	79.06	2.94	1061.00	109.04	7.91
*	.759	1186.26	1065.24	9972.71	9972.30	10028.00	10027.45	1.31	54.73	2.64	1062.60	46.03	8.28
*	.769	1186.26	1066.13	9972.67	9972.30	10028.00	10027.17	.89	54.50	3.33	1062.80	22.39	6.64
*	.792	1186.26	1066.18	9974.52	9972.00	10028.00	10025.55	.05	51.03	2.68	1063.50	55.34	9.11
*	.822	1186.26	1067.09	9974.51	9972.00	10028.00	10025.55	.90	51.04	2.69	1064.40	55.19	9.10
	.847	1186.26	1068.17	9973.89	9973.30	10028.00	10026.72	1.09	52.83	3.07	1065.10	30.98	7.42

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.857	1186.26	1068.73	9973.82	9973.30	10028.00	10026.81	.56	52.99	3.33	1065.40	23.82	6.84
*	.914	1186.26	1073.42	9954.79	9975.00	10030.00	10100.85	4.69	146.06	2.92	1070.50	34.84	6.99
*	.959	1186.26	1074.98	9973.37	9973.30	10026.80	10026.73	1.57	53.37	2.48	1072.50	17.50	8.96
*	.969	1186.26	1076.90	9973.35	9973.30	10026.80	10026.75	1.92	53.41	3.40	1073.50	6.38	6.53
*	1.016	1186.26	1079.39	9971.68	9980.00	10025.00	10307.78	2.48	336.10	3.79	1075.60	25.84	6.32
*	1.064	1186.26	1081.43	9972.84	9980.00	10020.00	10034.33	2.05	61.49	3.83	1077.60	84.83	9.49
	1.159	1186.26	1085.88	9970.62	9980.00	10030.00	10076.89	4.44	106.27	3.38	1082.50	74.35	8.12
*	1.254	1191.15	1090.51	9965.00	9980.00	10020.00	10030.24	4.64	65.24	4.71	1085.80	78.95	9.30
	1.348	954.85	1094.62	9981.88	9985.00	10050.00	10068.69	4.11	86.81	3.12	1091.50	54.88	6.36
*	1.443	954.85	1098.91	9970.89	9980.00	10030.00	10112.01	4.29	141.13	3.31	1095.60	72.70	7.52
*	1.536	954.85	1103.63	9961.83	9985.00	10025.00	10086.01	4.72	124.18	3.53	1100.10	71.16	7.83
*	1.631	954.85	1108.28	9964.35	9990.00	10020.00	10110.00	4.66	145.65	3.18	1105.10	68.12	7.98
	1.725	905.53	1113.19	9950.00	9990.00	10020.00	10062.06	4.91	112.06	3.19	1110.00	65.46	8.04
*	1.818	1105.39	1117.43	9953.86	9980.00	10025.00	10035.73	4.24	81.87	3.23	1114.20	75.01	8.35
*	1.913	1105.39	1121.18	9978.17	9990.00	10030.00	10041.83	3.75	63.66	3.68	1117.50	80.40	9.07
*	2.008	1105.39	1125.31	9953.73	9980.00	10020.00	10059.40	4.13	105.67	4.31	1121.00	64.19	8.30
*	2.107	1105.39	1131.03	9950.00	9975.00	10020.00	10063.50	5.72	113.50	4.53	1126.50	69.78	8.17
	2.202	1105.39	1133.94	9975.27	9985.00	10020.00	10039.45	2.90	64.18	4.44	1129.50	49.29	8.17
*	2.296	1105.39	1137.40	9968.28	9985.00	10030.00	10088.23	3.47	119.96	3.70	1133.70	69.42	8.12
	2.389	1105.39	1140.49	9950.10	9985.00	10030.00	10099.02	3.09	148.93	3.29	1137.20	44.15	6.68
*	2.482	1105.39	1143.70	9923.04	9975.00	10030.00	10026.96	3.21	103.93	3.10	1140.60	117.30	7.08
*	2.576	915.39	1146.44	9915.00	9980.00	10030.00	10110.13	2.75	166.43	4.34	1142.10	20.16	3.63
*	2.670	915.39	1147.77	9921.23	9985.00	10040.00	10036.45	1.33	115.21	3.67	1144.10	43.26	3.99
	2.765	915.39	1149.93	9930.35	9930.00	10060.00	10058.61	2.16	128.27	2.73	1147.20	40.88	4.38
	2.860	915.39	1152.11	9934.28	9935.00	10020.00	10177.56	2.18	243.28	2.41	1149.70	50.11	5.33
	2.912	915.39	1154.11	9963.08	9965.00	10020.00	10025.50	2.00	62.42	3.51	1150.60	106.50	8.17

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	2.973	726.39	1157.02	9954.88	9950.00	10020.00	10015.12	2.91	60.23	3.02	1154.00	57.93	5.98
*	3.059	726.39	1158.44	9957.80	9960.00	10025.00	10106.10	1.42	148.30	3.44	1155.00	10.70	3.14
*	3.154	726.39	1159.84	9975.79	9975.00	10035.00	10033.81	1.40	58.02	2.54	1157.30	112.53	7.42
*	3.247	726.39	1163.17	9933.88	9970.00	10010.00	10015.87	3.33	81.99	3.77	1159.40	38.12	6.05
*	3.342	726.39	1166.02	9974.94	9975.00	10020.00	10020.06	2.85	45.12	2.92	1163.10	109.16	8.11
	3.436	594.39	1170.71	9980.99	9990.00	10030.00	10033.60	4.69	52.61	3.01	1167.70	69.42	6.82
*	3.530	594.39	1172.69	9969.36	9980.00	10040.00	10114.58	1.98	145.21	2.79	1169.90	14.50	3.44
*	3.625	594.39	1174.16	9963.54	9965.00	10050.00	10180.70	1.47	217.16	1.86	1172.30	97.22	5.38
*	3.719	594.39	1176.80	9968.13	9980.00	10040.00	10228.00	2.64	259.88	2.80	1174.00	29.99	4.24
*	3.813	221.39	1178.76	9986.22	9980.00	10035.00	10109.03	1.96	69.46	1.96	1176.80	119.88	5.17
*	3.930	221.39	1182.79	9985.99	9980.00	10020.00	10036.03	4.04	50.03	2.59	1180.20	38.80	4.10
	4.016	221.39	1184.55	9961.40	9990.00	10040.00	10106.55	1.76	145.15	1.75	1182.80	32.64	3.11
	4.086	68.47	1185.55	9965.00	9965.00	10060.00	10043.93	1.00	78.93	1.25	1184.30	11.33	1.28
*	4.152	187.00	1185.67	9930.00	9930.00	10030.00	10104.95	.12	174.95	2.67	1183.00	2.18	1.02

KRABBIT TRAIL WASH -

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1038.61	-1.39	1038.87	252.12	1.57	1088.36	3.57	.00	.00	9910.00	10150.00	.00
	.070	1041.15	.00	1041.72	140.61	7.67	1069.02	16.81	.00	.00	9915.00	10040.00	.00
*	.142	1043.81	.00	1044.11	162.23	.00	1093.50	.00	.00	.00	9940.00	10110.00	.00
*	.228	1046.50	.00	1046.97	211.63	2.04	1072.97	18.48	.00	.00	9945.00	10100.00	.00
*	.312	1050.55	.00	1051.41	145.35	2.58	1060.88	30.04	.00	.00	9970.00	10025.00	.00
	.348	1052.02	.00	1052.55	121.76	.00	936.13	157.36	.00	.00	9960.00	10030.00	.00
*	.440	1054.67	.00	1055.33	89.91	3.38	926.04	5.09	.00	.00	9980.00	10055.00	.00
*	.499	1056.27	.00	1056.63	75.83	.00	963.31	.05	.00	.00	9955.00	10030.00	.00
	.566	1057.15	.00	1057.54	95.45	9.58	1175.67	4.28	.00	.00	9950.00	10030.00	.00
*	.610	1058.64	.00	1059.69	82.46	8.97	1175.51	5.04	.00	.00	9970.00	10030.00	.00
*	.668	1061.48	.00	1062.36	122.01	32.40	1044.89	112.24	.00	.00	9980.00	10030.00	.00
*	.722	1063.94	.00	1064.91	79.06	.00	1186.26	.00	.00	.00	9950.00	10030.00	.00
*	.759	1065.24	.00	1066.31	54.73	.00	1186.26	.00	.00	.00	9972.30	10028.00	.00
*	.769	1066.13	.00	1066.82	54.50	.00	1186.26	.00	.00	.00	9972.30	10028.00	.00
*	.792	1066.18	.00	1067.47	51.03	.00	1186.26	.00	.00	.00	9972.00	10028.00	.00
*	.822	1067.09	.00	1068.37	51.04	.00	1186.26	.00	.00	.00	9972.00	10028.00	.00
	.847	1068.17	.00	1069.03	52.83	.00	1186.26	.00	.00	.00	9973.30	10028.00	.00
*	.857	1068.73	.00	1069.46	52.99	.00	1186.26	.00	.00	.00	9973.30	10028.00	.00
*	.914	1073.42	.00	1074.07	146.06	73.16	894.43	218.67	.00	.00	9975.00	10030.00	.00
*	.959	1074.98	.00	1076.23	53.37	.00	1186.26	.00	.00	.00	9973.30	10026.80	.00
*	.969	1076.90	.00	1077.57	53.41	.00	1186.26	.00	.00	.00	9973.30	10026.80	.00
*	1.016	1079.39	.00	1079.86	336.10	13.54	868.79	303.93	.00	.00	9980.00	10025.00	.00
*	1.064	1081.43	.00	1082.79	61.49	15.86	1151.72	18.68	.00	.00	9980.00	10020.00	.00
	1.159	1085.88	.00	1086.80	106.27	30.45	1065.88	89.93	.00	.00	9980.00	10030.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.254	1090.51	.00	1091.84	65.24	8.09	1180.73	2.33	.00	.00	9980.00	10020.00	.00
	1.348	1094.62	.00	1095.24	86.81	1.38	948.56	4.91	.00	.00	9985.00	10050.00	.00
*	1.443	1098.91	.00	1099.74	141.13	8.87	899.26	46.72	.00	.00	9980.00	10030.00	.00
*	1.536	1103.63	.00	1104.45	124.18	57.55	806.98	90.32	.00	.00	9985.00	10025.00	.00
*	1.631	1108.28	.00	1109.00	145.65	80.70	654.75	219.40	.00	.00	9990.00	10020.00	.00
*	1.725	1113.19	.00	1114.01	112.06	180.86	689.12	35.55	.00	.00	9990.00	10020.00	.00
*	1.818	1117.43	.00	1118.44	81.87	66.86	1025.45	13.08	.00	.00	9980.00	10025.00	.00
*	1.913	1121.18	.00	1122.43	63.66	18.71	1075.76	10.91	.00	.00	9990.00	10030.00	.00
*	2.008	1125.31	.00	1126.31	105.67	49.16	1017.44	38.78	.00	.00	9980.00	10020.00	.00
*	2.107	1131.03	.00	1132.01	113.50	42.45	1033.01	29.93	.00	.00	9975.00	10020.00	.00
	2.202	1133.94	.00	1134.92	64.18	27.33	1045.86	32.20	.00	.00	9985.00	10020.00	.00
*	2.296	1137.40	.00	1138.35	119.96	31.41	1017.70	56.28	.00	.00	9985.00	10030.00	.00
	2.389	1140.49	.00	1141.07	148.93	165.64	868.22	71.53	.00	.00	9985.00	10030.00	.00
*	2.482	1143.70	.00	1144.44	103.93	544.03	561.35	.00	.00	.00	9975.00	10030.00	.00
*	2.576	1146.44	.00	1146.65	166.43	531.06	381.92	2.41	.00	.00	9980.00	10030.00	.00
*	2.670	1147.77	.00	1148.12	115.21	636.74	278.65	.00	.00	.00	9985.00	10040.00	.00
	2.765	1149.93	.00	1150.23	128.27	.00	915.39	.00	.00	.00	9930.00	10060.00	.00
	2.860	1152.11	.00	1152.52	243.28	.00	850.73	64.66	.00	.00	9935.00	10020.00	.00
*	2.912	1154.11	.00	1155.15	62.42	.07	915.21	.11	.00	.00	9965.00	10020.00	.00
	2.973	1157.02	.00	1157.58	60.23	.00	726.39	.00	.00	.00	9950.00	10020.00	.00
*	3.059	1158.44	.00	1158.56	148.30	.24	553.07	173.08	.00	.00	9960.00	10025.00	.00
*	3.154	1159.84	.00	1160.70	58.02	.00	726.39	.00	.00	.00	9975.00	10035.00	.00
*	3.247	1163.17	.00	1163.71	81.99	38.96	683.78	3.65	.00	.00	9970.00	10010.00	.00
*	3.342	1166.02	.00	1167.05	45.12	.00	726.39	.00	.00	.00	9975.00	10020.00	.00
	3.436	1170.71	.00	1171.43	52.61	5.80	587.25	1.34	.00	.00	9990.00	10030.00	.00
	3.530	1172.69	.00	1172.85	145.21	2.92	508.37	83.09	.00	.00	9980.00	10040.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	3.625	1174.16	.00	1174.57	217.16	.09	529.92	64.38	.00	.00	9965.00	10050.00	.00
*	3.719	1176.80	.00	1177.04	259.88	5.88	497.77	90.74	.00	.00	9980.00	10040.00	.00
*	3.813	1178.76	.00	1179.16	69.46	.00	212.40	8.99	.00	.00	9980.00	10035.00	.00
*	3.930	1182.79	.00	1183.05	50.03	.00	216.01	5.38	.00	.00	9980.00	10020.00	.00
	4.016	1184.55	.00	1184.68	145.15	13.54	178.85	29.00	.00	.00	9990.00	10040.00	.00
*	4.086	1185.55	.00	1185.58	78.93	.00	68.47	.00	.00	.00	9965.00	10060.00	.00
*	4.152	1185.67	.00	1185.68	174.95	.00	166.78	20.22	.00	.00	9930.00	10030.00	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .142  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .228  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .312  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .312  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .440  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .499  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .610  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .610  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .610  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .668  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .668  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .722  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .722  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .759  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .769  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      .769  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .792  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .792  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .822  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .822  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .857  PROFILE=  1  HYDRAULIC JUMP D.S.

CAUTION SECNO=      .914  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .914  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .914  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .959  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .959  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .959  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .969  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      .969  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.016  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.016  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.016  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.064  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.064  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
```

```
[illegible]TION SECNO=     1.064  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.254  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.254  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.443  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.443  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.536  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.536  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.631  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.631  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.725  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.818  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.818  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.913  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.913  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.008  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.008  PROFILE=  1  MINIMUM SPECIFIC ENERGY

[illegible]ION SECNO=     2.107  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.107  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.296  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.296  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     2.482  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.576  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.670  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     2.912  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.912  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.059  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.154  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.154  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.154  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     3.247  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.342  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.342  PROFILE=  1  MINIMUM SPECIFIC ENERGY

[illegible]NG SECNO=     3.530  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
CAUTION SECNO=     3.625  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.625  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.719  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.813  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.813  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.930  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.086  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.152  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    20MAY92    TIME   13:53:26 *
*****************************************
```

```
*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*         (916) 756-1104            *
*************************************
```

```
X     X  XXXXXXX   XXXXX            XXXXX
X     X  X        X    X           X    X
X     X  X        X                     X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                X
X     X  X        X    X           X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

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20MAY92 13:53:26 PAGE 1

THIS RUN EXECUTED 20MAY92 13:53:26

```
************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
************************************
```

5. H20
Latest version
W/Floodway

T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODPLAIN RUN FILE: 5.H2I
T3 TUTHILL DIKE WASH - WASH "5" - WHITE TANK STRUCTURE #4 NORTH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0.0044	0	0	0	1040.0	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	0	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	53	21	22	54	51	4	8
42	5	26	0	110	0	200			

NC	.03	.04	.03	.1	.3		
QT	2	4057	4057				
			9.1			9945.48	10068.73

Q @ X1 = 0.000 TO X1 = 1.012 EQUALS Q AT I6CWT4
Q = 4057 CFS

MATCH FLOODPLAIN INTO 100-YEAR PONDING WSEL BEHIND WHITE TANKS
STRUCTURE # 4

X1	0.000	8	9940	10075	0	0	0			
GR	1042	9880	1040	9940	1034	9975	1033	10000	1034	10035
	1040	10075	1050	10120	1054	10140				
ET			9.1						9910	10073.38
X1	0.075	8	9960	10070	400	400	400			
GR	1042	9860	1040	9910	1036	9960	1035	10000	1036	10025
GR	1040	10070	1050	10110	1054	10125				
ET			9.1						9950	10068.55
X1	0.186	9	9970	10050	580	580	580			
GR	1044	9730	1042.5	9840	1044	9950	1040	9970	1038.5	10000
GR	1039	10040	1040	10050	1050	10100	1054	10130		

1

ET			9.1						9925	10080
X1	0.314	14	9950	10080	500	720	680			
GR	1050	9135	1048	9350	1047	9680	1048	9760	1049	9870
GR	1048	9950	1044	9970	1042.5	10000	1044	10050	1046	10070
GR	1048	10080	1050	10090	1052	10100	1054	10110		
ET			9.1						9940	10175
X1	0.415	13	9940	10060	300	800	530			
GR	1052.3	9250	1051.8	9650	1051	9875	1050	9940	1049.5	9960
GR	1047.2	10000	1048	10010	1050	10060	1051.2	10100	1050	10140
	1052	10275	1052	10315	1052.3	10335				
ET			9.1						9911.75	10110
X1	0.540	11	9930	10040	660	650	660			
GR	1057.7	9910	1056	9930	1054	9960	1053	10000	1054	10030
GR	1056	10040	1056	10050	1055.3	10060	1056	10070	1056.9	10250
GR	1057.8	10335								
ET			9.1						9950.98	10105
X1	0.634	10	9970	10040	495	495	495			
GR	1062.4	9935	1062	9950	1058	9970	1056.8	10000	1058	10040
GR	1060	10055	1060.3	10105	1062	10170	1062	10240	1062.3	10290
ET			9.1						9953.52	10085
X1	0.729	16	9960	10085	500	500	500			
GR	1069.6	9920	1068	9940	1066	9950	1064	9960	1062	9970
GR	1060.7	10000	1062	10030	1061.7	10040	1062	10055	1064	10085
GR	1065.8	10275	1065.5	10385	1066	10460	1065.8	10485	1066	10505
GR	1068	10625								
ET			9.1						9952.71	10045.27
X1	0.823	11	9955	10030	495	495	495			
GR	1076	9925	1074	9940	1072	9950	1070	9955	1068	9960
GR	1066	9965	1064.5	10000	1066	10010	1068	10020	1070	10030
GR	1071.2	10050								
			9.1						9956.30	10050
X1	0.917	11	9965	10040	500	500	500			
GR	1079.6	9915	1078	9940	1076	9950	1074	9960	1072	9965
GR	1070	9970	1069.3	10000	1070	10030	1074	10040	1076	10130
GR	1076.2	10150								
ET			9.1						9936.36	10028.56

```
X1    1.012        11      9940     10020       500       500       500
GR   1085.6      9920      1084      9925      1082      9930      1080      9940      1078      9945
GR     1076      9950    1075.7     10000      1076     10010      1078     10015      1080     10020
GR   1081.7     10040
```



```
NC    .016      .016      .016        .3        .5
QT       2      4061      4061
ET                         9.11                                                    9977.7     10022
```

Q @ X1 = 1.067 TO X1 = 1.110 EQUALS Q AT CP43 (AFTER DIVERT)
Q = 4061 CFS
FLOW LEFT OVER AFTER WEIR FLOW OVER DIKE UPSTREAM OF CULVERT

4 - 10ft x 8ft x 227ft BC AT INTERSTATE 10

```
X1    1.067         7    9977.7   10022.0       293       293       293
X3       10                                                          1088      1088
GR     1088    9915.0   1078.64    9977.7   1078.64   9978.64   1078.64   10000.0   1078.64   10021.4
GR   1078.9   10022.0      1086     10075

SC    4.016        .5       2.6         0         8        10       227       8.1   1081.16   1078.64
ET                         9.11                                                      9950     10022
```

PORTION OF FLOW FOR THE NEXT FOUR CROSS SECTIONS UPSTREAM
IS LOST AS WEIR FLOW OVER THE DIKE TO THE EAST
APPROXIMATELY 1440 CFS FLOWS EAST OVER DIKE

EFFECTIVE FLOW OPTION IS INCORPORATED FOR THE NEXT 5 UPSTREAM CROSS
SECTIONS AS A RESULT OF PONDING AND UPSTREAM AND DOWNSTREAM EXPANSION
AND CONTRATION FLOW SITUATIONS.

ACTUAL MAPPED LIMITS CORRESPOND TO WATER SURFACE ELEVATIONS AND ARE
SHOWN CORRECTLY ON THE FLOODPLAIN WORK MAP.

```
X1    1.110         8    9977.7   10022.0       227       227       227
X2        0         0         2   1089.16    1091.5
X3       10                                                          1092      1099
BT        5      9950      1092              9978.6      1099                10000      1099
BT    10022      1099               10100      1099
GR     1092      9950   1081.16    9977.7    1081.1    9978.6    1081.1     10000    1081.1    10021.
GR   1081.1     10022      1088     10100      1096     11850

QT        2      5503      5503
ET                         9.1                                                       9920     10100
```

Q @ X1 = 1.118 TO X1 = 1.198 EQUALS STORAGE ROUTED Q AT CP43
Q = 5503 CFS

```
X1    1.118        13      9920     10030        40        40        40
X3                                   9920                10100
GR     1096      9500      1094      9860    1091.5      9920      1090      9945   1081.52    9978.6
GR   1081.5     10000    1081.5    10021.    1081.5   10021.4      1082     10030      1084     10200
GR     1086     10260      1088     10500      1096     11850
```

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```
NC      .03       .04       .03       .1        .3
ET                          9.1                                                   9930      10150
X1    1.152        15      9930     10045       180       180       180
                                     9930                 10150
      1093      9930      1086      9980      1082     10000      1082     10025      1086     10045
GR    1088     10080    1087.5     10110    1088.5     10175      1088     10215      1087     10330
GR  1088.5     10365      1088     10410      1090     10480    1090.2     10515    1095.5     10900

ET                          9.1                                                   9925      10200
X1    1.198        18      9945     10030       235       235       240
X3                                   9925                 10200
GR  1095.8      9925      1094      9935      1092      9940      1090      9945      1088      9960
GR    1086      9975    1085.3     10000      1086     10015      1088     10020      1090     10030
GR    1091     10080      1090     10190      1090     10225    1090.3     10350    1091.1     10420
GR    1092     10480      1094     10600      1096     10800

NC      .03       .04       .03       .3        .5
QT        2      6601      6601
ET                          9.1                                                   9945      10200
```

Q @ X1 = 1.260 TO X1 = 1.322 EQUALS ROUTED Q AT CP42
Q = 6601 CFS

UPSTREAM OF MCDOWELL ROAD

```
X1    1.260        14      9975     10045       340       315       330
X3                                   9945                 10200
GR  1100.3      9945      1100      9955      1098      9960      1096      9965      1094      9975
      1092      9980    1091.5     10000      1092     10020      1094     10045    1094.7     10210
      1096     10335      1096     10370      1098     10395      1100     10405

ET                          9.1                                                9973.96      10145
X1    1.287        10      9980     10145       160       120       140
GR  1101.7      9960      1100      9970      1098      9980      1096      9990      1094     10000
GR    1096     10110      1098     10145      1100     10180      1102     10190    1102.4     10220

ET                6.1       9.1                         9920.14     10080                9920.14     10080
```

THE NEXT THREE UPSTREAM CROSS SECTIONS FLOW THROUGH A DETENTIION
BASIN AND EFFECTIVE FLOW LIMITS ARE IMPOSED TO MODEL THIS SITUATION
CORRECTLY. MAPPED LIMITS ARE SMOWN ON THE FLOODPLAIN MAP TO
CORRECTLY DEPICT THE ACTUAL PONDING AREA.

CONFLUENCE OF BULLDOZER WASH

```
X1    1.313        11      9950     10025       145       135       140
GR  1106.3      9880      1106      9895      1104      9905      1100      9925      1096      9950
GR    1095     10000      1096     10025      1098     10050      1100     10070      1102     10090
GR  1102.2     10175
```



```
                  6.1       9.1                         9875.9     10110                9875.9     10110
X1    1.322         8      9930     10110       150       150        50
GR  1107.2      9850      1100      9900      1096      9930      1095     10000      1096     10110
GR    1100     10270      1103     10350    1103.7     10550

QT        2      6225      6225
NC      .03       .04       .03       .1        .3
```

```
ET              6.1       9.1                        9877.24     10100              9877.24     10100

        Q AT X1 = 1.362 TO X1 = 1.614 EQUALS (Q AT CP39 + 1/5 HYDROGRAPH AT 42)
        Q = 6018 + 1/5(1029) = 6225 CFS

X1    1.362       36     9950    10045      150       300       210
GR   1108.5     9835     1108     9840     1106      9850      1104     9870     1102     9905
GR    1100      9920     1098     9925     1096      9930      1094     9935     1092     9940
GR    1090      9950     1088     9960     1086      9970      1084     9980     1082    10000
GR    1082     10010     1084    10015     1086     10025      1088    10035     1090    10045
GR    1092     10060     1094    10075     1094     10130      1092    10150     1090    10165
GR    1090     10185     1092    10505     1094     10510      1096    10520     1098    10525
GR    1100     10530     1102    10535     1104     10540      1106    10545     1108    10550
GR    1110     10555

NC     .04       .05      .03
ET                        9.1                                                   9948.99     10045
X1    1.422       19     9945    10045      315       315       315
GR   1111.5     9910     1110     9935     1108      9945      1106     9950     1104     9960
GR    1102      9965     1100     9980   1098.5     10000      1100    10020     1102    10030
GR    1104     10035     1106    10040     1108     10045      1110    10050     1112    10060
GR    1114     10220     1114    10390     1112     10430      1110    10580

ET                        9.1                                                    9969.4     10090
X1    1.518       21     9975    10055      495       495       505
GR    1120      9960     1110     9975     1108      9985    1106.9    10000     1108    10030
GR    1110     10040     1112    10055     1114     10065    1115.3    10090     1114    10105
GR    1112     10120     1110    10130   1109.4     10145      1110    10155     1112    10170
GR   1113.8     10185     1112    10200   1111.2     10215      1112    10225     1114    10240
GR   1115.3     10265

ET                        9.1                                                   9967.72     10110
X1    1.614       17     9975    10055      510       505       510
GR    1130      9915     1128     9945     1126      9955      1124     9965     1122     9975
GR    1120      9980     1118     9985     1116      9990      1114     9995   1113.9    10000
GR    1114     10010     1116    10020     1118     10030      1120    10045     1122    10055
GR   1122.7     10110     1124    10180

QT       2      6168     6168
ET                        9.1                                                      9965     10070

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        Q @ X1 = 1.710 TO 2.088 EQUALS (Q AT 1.299 + Q AT CP39)/2
        Q = (6225 + 6110)/2 = 6168 CFS

X1    1.710       23     9965    10070      505       510       505
GR    1137      9925     1136     9955     1134      9960      1132     9965     1130     9970
GR    1128      9980     1126     9985     1124      9990      1122     9995     1120    10000
GR    1122     10010     1124    10020     1124     10025      1124    10030     1126    10035
GR    1128     10040     1130    10045     1132     10070    1132.4    10120     1132    10175
GR   1131.5     10200     1132    10230   1132.7     10315

                          9.1                                                   9969.75     10050
X1    1.805       20     9970    10050      500       500       500
GR   1146.1     9925     1146     9950     1144      9955      1142     9960     1140     9965
GR    1138      9970     1136     9975     1134      9980      1132     9985     1130     9990
GR    1128      9995   1127.6    10000     1128     10005      1130    10015     1132    10020
GR    1134     10030     1136    10040     1138     10050      1140    10125   1141.1    10160
```

```
ET                        9.1                                                  9972.07     10070
X1    1.898        16     9980     10020      495      495      495
GR   1151.8      9930     1150      9965     1140     9980     1138      9990   1137.3     10000
GR    1138     10010     1140     10020     1141    10025     1140     10030   1139.7     10045
      1140     10060     1142     10070     1144    10105     1146     10155     1148     10195
GR    1150     10240

ET                        9.1                                                  9969.06   10092.81
X1    1.994        15     9975     10050      505      505      505
GR   1157.8      9925     1156      9960     1150     9975     1144      9990   1143.5     10000
GR    1144     10005     1146     10010   1147.3    10020     1146     10025   1145.7     10030
GR    1146     10035     1150     10050     1152    10090     1154     10105   1154.5     10150

ET                        9.1                                                  9971.45     10055
X1    2.088        18     9975     10055      495      495      495
GR   1164.7      9925     1164      9945     1162     9955     1160      9970     1158      9975
GR    1152      9985   1150.1     10000     1152    10015     1154     10030     1159     10055
GR   1156.3     10075     1158     10090     1160    10105     1161     10190   1160.5     10280
GR    1162     10295     1163     10350     1164    10395

QT       2      6110     6110
ET                        9.1                                                  9964.34   10128.93

          Q @ X1 = 2.170 TO X1  = 2.659 EQUALS Q AT CP39
          Q = 6110 CFS

X1    2.170        11     9940     10135      430      445      435
GR   1170.7      9940     1170      9960     1164     9970   1162.6     10000     1164     10025
GR    1164     10055   1162.7     10080     1164    10105     1166     10115     1168     10135
      1169     10165

ET                        9.1                                                  9945.88   10039.91
1
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          UPSTREAM OF THOMAS ROAD EXTENDED

X1    2.279         5     9940     10045      580      570      575
GR   1177.6      9940     1170      9985   1169.3    10000     1170     10030     1180     10045

ET                        9.1                                                  9950.04     10080
X1    2.373        12     9960     10015      495      495      495
GR   1181.8      9925     1180      9960     1174     9960     1172     10000     1174     10015
GR    1176     10040     1178     10055     1179    10080     1178     10110     1178     10130
GR    1180     10165     1182     10180

ET                        9.1                                                  9941.03     10080
X1    2.468        13     9975     10015      505      505      505
GR   1188.5      9910     1188      9920     1180     9975     1178      9985   1177.3     10000
GR    1178     10010     1180     10015     1180    10025   1179.1     10040     1180     10055
GR    1182     10065     1184     10080   1185.5    10145

ET                        9.1                                                  9944.81     10100


          CONFLUENCE OF CATERPILLAR WASH

X1    2.563        13     9980     10025      500      500      500
GR   1191.9      9930     1190      9965     1184     9980   1182.3     10000     1184     10025
GR    1186     10035     1188     10045     1190    10120   1190.6     10170     1190     10200
```

```
GR     1188      10230      1190      10275      1192      10300

ET                          9.1                                                  9968.55     10100
X1     2.659        13     9975      10025       505       505       505
       1196.3     9940      1196       9965      1190      9975      1188      9985      1186      9990
GR     1185.8    10000      1186      10005      1188     10025      1190     10045      1192     10115
GR      1192     10135      1194      10160    1194.4     10185

QT        2       3011      3011
ET                          9.1                                                  9917.67     10110

          Q @ X1=3.753 TO X1=3.250 EQUALS Q @ CP27
          Q = 3011 CFS

X1     2.753        20     9975      10070       495       495       500
GR    1200.3      9895      1200       9905    1196.1      9925    1197.3      9960      1196      9975
GR    1195.8      9980      1196       9985    1190.3     10000      1192     10015      1194     10020
GR    1194.5     10030      1194      10040    1193.5     10045      1194     10055      1196     10070
GR    1197.6     10110    1196.8      10135      1198     10180      1200     10235      1202     10315

ET                          9.1                                                     9964     10080
X1     2.848        14     9980      10025       495       495       500
GR    1204.1      9950      1200       9965      1198      9980      1196      9990    1193.2     10000
GR      1194     10015    1197.9      10025    1196.4     10035      1198     10045      1200     10075
GR      1202     10120      1204      10190      1206     10320      1208     10435
1
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                            9.1                                                     9960.5    10067.9
X1     2.943        15     9945      10020       500       500       500
GR    1207.1      9945      1200       9975      1198      9985      1196      9995    1195.8     10000
GR      1200     10015    1200.5      10020      1200     10025    1199.1     10035      1200     10040
GR      1202     10050      1204      10075      1206     10225      1208     10315      1210     10405

ET                          9.1                                                     9975     10075
X1     3.057        17     9985      10020       505       510       510
GR    1210.4      9920      1210       9935      1208      9970      1202      9985      1200      9995
GR    1199.4     10000      1200      10015      1202     10020    1203.1     10025      1202     10030
GR    1201.5     10035      1202      10040      1204     10055      1206     10150      1208     10250
GR      1210     10365      1212      10490

ET                          9.1                                                     9977.7     10100
X1     3.148        11     9975      10030       575       580       575
GR    1214.5      9940      1214       9965      1210      9975      1204      9985      1200      9995
GR      1204     10015      1206      10030      1208     10175      1210     10240      1212     10420
GR      1214     10600

ET                          9.1                                                    9939.62     10150

          DOWNSTREAM OF INDIAN SCHOOL ROAD EXTENDED

          CONFLUENCE OF TRACTOR WASH

       3.250        12     9970      10120       515       505       535
       1220.4      9830      1220       9840      1218      9845      1216      9900      1214      9935
GR      1212      9970    1210.9      10000      1212     10120      1214     10195      1216     10375
GR      1218     10480      1220      10580

QT        2        1414      1414
ET                          9.1                                                    9978.43     10150
```

Q @ X1 = 3.344 TO X1 = 3.912 EQUALS Q AT CP25
Q = 1414 CFS

```
    3.344      14    9985   10115     495     505     500
GR   1220    9965    1218    9975    1214    9985  1212.8   10000    1214   10015
GR 1214.5   10035    1214   10055    1214   10115    1216   10165    1218   10275
GR   1220   10355    1222   10385    1224   10405    1226   10435

ET                    9.1                                           9974.83   10150
X1  3.439      11    9980   10150     500     500     500
GR   1222    9960    1220    9970    1214    9980  1213.5   10000    1214   10150
GR   1216   10200    1218   10230    1220   10295    1222   10340    1224   10370
GR   1226   10400

ET                    9.1                                           9976.87  10089.39
X1  3.535      14    9980   10080     500     500     505
GR 1228.1    9950    1228    9955    1220    9970    1216    9980  1214.9   10000
GR   1216   10030  1214.8   10075    1216   10080    1218   10095    1220   10125
GR   1222   10185    1224   10355    1226   10515    1228   10640
```



```
ET                    9.1                                           9976.66   10031.7
X1  3.631       9    9980   10025     510     510     510
GR 1231.2    9920    1230    9965    1220    9980  1218.2   10000    1220   10025
GR   1222   10030    1224   10045    1226   10075  1226.3   10095

                      9.1                                           9975.82   10070
X1  3.724      17    9980   10030     495     480     490
GR 1236.6    9920    1236    9940    1234    9950    1232    9960    1230    9980
GR   1228    9995  1226.6   10000    1228   10015    1230   10030    1230   10070
GR   1230   10115    1228   10125    1228   10130    1228   10145    1228   10155
GR   1230   10165    1232   10185

ET                    9.1                                           9981.34   10070
X1  3.818      24    9985   10030     495     500     495
GR   1243    9935    1242    9965    1240    9975    1234    9985  1232.3   10000
GR   1234   10015  1235.3   10030    1234   10060  1235.8   10135  1235.3   10155
GR 1235.7   10180  1235.6   10205    1236   10230    1238   10295  1238.2   10310
GR   1238   10320  1236.8   10340    1238   10360  1238.5   10405  1238.7   10460
GR   1238   10520  1236.6   10550    1238   10570    1240   10605

ET                    9.1                                           9972.29   10070
X1  3.912      20    9980   10015     495     495     495
GR 1250.2    9900    1250    9905    1248    9960    1240    9980  1239.1   10000
GR   1240   10015    1242   10030    1242   10035  1241.8   10040    1242   10050
GR   1244   10090  1244.9   10135  1244.4   10160  1244.8   10220  1244.3   10290
GR   1246   10375  1246.9   10460  1247.6   10510  1246.4   10570    1248   10610

QT      2    1261    1261
ET                    9.1                                           9980.86  10041.56
```

Q @ X1 = 4.006 TO X1 = 4.653 EQUALS (Q AT CP25 + Q AT CP22A)/2
Q = (1414 + 1108)/2 = 1261 CFS

```
X1  4.006      12    9980   10045     500     505     500
GR 1255.3    9940    1254    9970    1250    9980    1246    9990    1246   10000
GR   1246   10010    1248   10025    1250   10045    1252   10075  1253.4   10190
GR   1254   10280  1254.6   10315
```

```
ET                          9.1                                                   9920      10070
X1    4.101        17      9975     10040      495       500       500
GR     1263      9840      1262      9895     1260      9910      1258      9915   1257.2      9940
GR   1256.5      9975      1256      9980   1255.8     10000      1256     10020   1256.5     10040
GR   1256.8     10105      1258     10140     1260     10210      1261     10275     1262     10340
GR     1264     10380      1266     10435

ET                          9.1                                                 9967.46   10058.08
X1    4.196        11      9965     10025      500       495       500
GR   1268.4      9895      1268      9900     1266      9955      1264      9965     1262      9970
GR     1260      9980    1259.8     10000     1260     10010      1262     10025     1264     10090
GR   1265.1     10100
1
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ET                          9.1                                                 9949.59      10070

          UPSTREAM OF CAMELBACK ROAD EXTENDED

X1    4.289        15      9985     10010      495       495       495
GR   1273.5      9885      1272      9895   1271.9      9925      1270      9955     1268      9985
GR   1267.4     10000      1268     10010     1270     10125      1272     10205   1272.2     10240
GR     1272     10280    1271.8     10295     1272     10315      1274     10365     1276     10460

ET                          9.1                                                 9992.08      10090
X1    4.375        15      9995     10025      445       445       450
GR   1276.5      9920    1276.3      9925   1276.6      9960      1276      9990     1272      9995
GR   1271.7     10000      1272     10025   1272.7     10055    1272.2     10070     1274     10110
GR     1276     10155      1278     10270     1280     10380      1282     10470     1284     10530

ET                          9.1                                                 9984.54      10090
X1    4.469        13      9995     10045      500       500       500
GR   1281.2      9920    1280.7      9955     1280      9980      1278      9985     1276      9995
GR   1275.1     10000      1276     10045   1276.9     10050    1276.1     10055     1278     10150
GR     1280     10250      1282     10300   1283.6     10365

ET                          9.1                                                 9973.24      10070
X1    4.563        10      9985     10040      500       495       495
GR   1283.2      9950      1282      9970     1280      9985    1278.1     10000     1280     10040
GR     1282     10150      1284     10230     1286     10300      1288     10380     1290     10475

ET                          9.1                                                 9960.95      10070
X1    4.653        12      9965     10040      475       475       475
GR   1285.7      9905    1284.8      9940     1284      9960      1282      9965     1280      9975
GR   1279.7     10000      1280     10030     1282     10040      1284     10100     1286     10200
GR     1286     10230      1288     10245

QT        2      1108      1108
ET                          9.1                                                 9970.14      10070

          Q @ X1= 4.725 EQUALS Q @ CP22A
          Q = 1108 CFS

          CONFLUENCE OF CATERPILLAR DIKE WASH

X1    4.725         8      9965     10040      380       380       380
GR   1286.5      9965      1283      9980     1283     10000      1283     10020     1284     10040
GR     1286     10105      1288     10225     1290     10360
1
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO .000

Q @ X1 = 0.000 TO X1 = 1.012 EQUALS Q AT I6CWT4
Q = 4057 CFS

MATCH FLOODPLAIN INTO 100-YEAR PONDING WSEL BEHIND WHITE TANKS
STRUCTURE # 4

.000	6.06	1039.06	.00	1040.00	1040.11	1.05	.00	.00	1040.00
4057.0	.0	4057.0	.0	.0	493.6	.0	.0	.0	1040.00
.00	.00	8.22	.00	.000	.030	.000	.000	1033.00	9945.48
.004368	0.	0.	0.	0	0	4	.00	123.25	10068.73

*SECNO .075

.075	5.84	1040.84	.00	.00	1041.52	.68	1.38	.04	1036.00
4057.0	758.8	3296.6	1.5	151.2	475.4	1.4	5.1	1.4	1040.00
.02	5.02	6.93	1.08	.030	.030	.040	.000	1035.00	9888.88
.002790	400.	400.	400.	2	0	0	.00	184.50	10073.38

*SECNO .186

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.186	5.21	1043.71	1043.71	.00	1044.90	1.19	2.04	.15	1040.00
4057.0	428.5	3499.9	128.6	141.8	374.3	34.4	13.0	4.6	1040.00
.04	3.02	9.35	3.74	.030	.030	.040	.000	1038.50	9751.25
.004559	580.	580.	580.	3	8	0	.00	294.60	10068.55

*SECNO .314

3265 DIVIDED FLOW

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.314	5.49	1047.99	1047.99	.00	1048.79	.80	2.81	.04	1048.00
4057.0	391.0	3666.0	.0	200.8	488.7	.0	22.0	9.8	1048.00
.06	1.95	7.50	.00	.030	.030	.000	.000	1042.50	9353.42
.003951	500.	680.	720.	2	8	0	.00	535.64	10079.95

*SECNO .415
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.415	4.73	1051.93	1051.93	.00	1052.53	.60	2.25	.02	1050.00
4057.0	671.0	2744.5	641.6	219.0	376.6	232.2	30.8	16.1	1050.00
.09	3.06	7.29	2.76	.030	.030	.040	.000	1047.20	9545.90
.004717	300.	530.	800.	9	9	0	.00	724.39	10270.29

*SECNO .540
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.540	4.55	1057.55	1057.55	.00	1058.43	.88	3.29	.08	1056.00
4057.0	43.0	3203.3	810.8	14.1	385.6	271.7	42.1	24.5	1056.00
.11	3.04	8.31	2.98	.030	.030	.040	.000	1053.00	9911.75
.005300	660.	660.	650.	11	8	0	.00	399.72	10311.47

*SECNO .634
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.634	5.00	1061.80	1061.80	.00	1063.16	1.35	2.78	.14	1058.00
4057.0	210.1	3172.7	674.2	36.2	308.3	168.0	48.9	28.0	1058.00
.13	5.81	10.29	4.01	.030	.030	.040	.000	1056.80	9950.98
.005983	495.	495.	495.	20	8	0	.00	211.54	10162.52

*SECNO .729
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.729	4.60	1065.30	1065.30	.00	1066.56	1.26	3.25	.01	1064.00
4057.0	12.9	3836.7	207.4	4.2	414.8	88.6	54.7	30.7	1064.00
.14	3.08	9.25	2.34	.030	.030	.040	.000	1060.70	9953.52
.007072	500.	500.	500.	2	8	0	.00	268.28	10221.80

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SECNO .823

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.823	6.42	1070.92	1070.92	.00	1073.07	2.15	3.64	.27	1070.00
4057.0	2.6	4040.9	13.5	1.0	342.5	7.0	59.6	32.8	1070.00
.15	2.45	11.80	1.93	.030	.030	.040	.000	1064.50	9952.71
.007665	495.	495.	495.	20	11	0	.00	92.56	10045.27

*SECNO .917

.917	5.43	1074.73	1074.70	.00	1076.70	1.97	3.61	.02	1072.00
4057.0	51.8	3985.7	19.4	10.1	351.5	12.3	63.7	34.0	1074.00
.17	5.15	11.34	1.58	.030	.030	.040	.000	1069.30	9956.30
.006823	500.	500.	500.	2	12	0	.00	116.97	10073.28

*SECNO 1.012
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.012	5.03	1080.73	1080.73	.00	1082.83	2.11	3.70	.04	1080.00
4057.0	3.0	4048.8	5.3	1.3	347.2	3.1	67.9	35.2	1080.00
.18	2.23	11.66	1.69	.030	.030	.040	.000	1075.70	9936.36
.008031	500.	500.	500.	20	11	0	.00	92.19	10028.56

CCHV= .300 CEHV= .500
*SECNO 1.067

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
[illegible]0 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1088.00 ELREA= 1088.00

Q @ X1 = 1.067 TO X1 = 1.110 EQUALS Q AT CP43 (AFTER DIVERT)

Q = 4061 CFS
FLOW LEFT OVER AFTER WEIR FLOW OVER DIKE UPSTREAM OF CULVERT

4 - 10ft x 8ft x 227ft BC AT INTERSTATE 10

1.067	6.37	1085.01	1085.01	.00	1088.23	3.22	1.06	.56	1078.64
4061.0	.0	4061.0	.0	.0	282.0	.0	70.0	35.7	1078.90
.18	.00	14.40	.00	.000	.016	.000	.000	1078.64	9977.70
.002040	293.	293.	293.	20	11	0	.00	44.30	10022.00

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	4	.016	.50	2.60	.00	8.00	10.00	227.00	8	1	1081.16	1078.64

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 1.110

SPECIAL CULVERT INLET CONTROL + WEIR FLOW, EG = 1093.68
3280 CROSS SECTION 1.11 EXTENDED 1.14 FEET

1 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.51

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1093.80	1093.13	5.46	14.	4024.	6.286	320.0	1092.00	7.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1092.00 ELREA= 1099.00

PORTION OF FLOW FOR THE NEXT FOUR CROSS SECTIONS UPSTREAM
IS LOST AS WEIR FLOW OVER THE DIKE TO THE EAST
APPROXIMATELY 1440 CFS FLOWS EAST OVER DIKE

EFFECTIVE FLOW OPTION IS INCORPORATED FOR THE NEXT 5 UPSTREAM CROSS
SECTIONS AS A RESULT OF PONDING AND UPSTREAM AND DOWNSTREAM EXPANSION
AND CONTRATION FLOW SITUATIONS.

ACTUAL MAPPED LIMITS CORRESPOND TO WATER SURFACE ELEVATIONS AND ARE
SHOWN CORRECTLY ON THE FLOODPLAIN WORK MAP.

1.110	12.04	1093.14	.00	.00	1093.68	.55	5.46	.00	1081.16
4061.0	708.6	3352.4	.0	181.7	533.3	.0	72.6	36.0	1081.10
.20	3.90	6.29	.00	.016	.016	.000	.000	1081.10	9950.00
.000166	227.	227.	227.	2	0	0	.00	72.00	10022.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.118

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

3470 ENCROACHMENT STATIONS= 9920.0 10100.0 TYPE= 1 TARGET= 180.000

Q @ X1 = 1.118 TO X1 = 1.198 EQUALS STORAGE ROUTED Q AT CP43
Q = 5503 CFS

1.118	12.15	1093.65	.00	.00	1093.81	.16	.00	.12	1091.50
5503.0	.0	2898.0	2605.0	.0	959.9	786.8	73.8	36.1	1082.00
.20	.00	3.02	3.31	.000	.016	.016	.000	1081.50	9920.00
.000061	40.	40.	40.	2	0	0	.00	180.00	10100.00

```
CCHV=     .100 CEHV=     .300
*SECNO 1.152

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .35


3470 ENCROACHMENT STATIONS=     9930.0   10150.0  TYPE=      1  TARGET=      220.000
     1.152     11.62   1093.62       .00       .00   1093.85       .23       .02       .02   1143.00
    5503.0        .0    3764.6    1738.4        .0     881.6     640.6      80.5      36.9   1086.00
       .21       .00      4.27      2.71      .000      .030      .040      .000   1082.00   9930.00
   .000506      180.      180.      180.         2         0         0       .00    220.00  10150.00


*SECNO 1.198

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .58


3470 ENCROACHMENT STATIONS=     9925.0   10200.0  TYPE=      1  TARGET=      275.000
     1.198      8.30   1093.60       .00       .00   1094.14       .54       .19       .09   1090.00
    5503.0      50.2    3827.4    1625.4      16.2     565.0     532.0      87.7      38.2   1090.00
       .22      3.10      6.77      3.06      .030      .030      .040      .000   1085.30   9936.00
   .001517      235.      240.      235.         2         0         0       .00    264.00  10200.00


CCHV=     .300 CEHV=     .500
1
   20MAY92      13:53:26                                                                          PAGE   16


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.260

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9945.0   10200.0  TYPE=      1  TARGET=      255.000

          Q @ X1 = 1.260 TO X1 = 1.322 EQUALS ROUTED Q AT CP42
          Q = 6601 CFS


          UPSTREAM OF MCDOWELL ROAD

     1.260      5.53   1097.03   1097.03       .00   1098.55      1.52       .99       .49   1094.00
    6601.0     138.6    3925.9    2536.5      21.6     332.2     418.8      94.7      40.1   1094.00
       .23      6.40     11.82      6.06      .030      .030      .040      .000   1091.50   9962.42
   .007204      340.      330.      315.        20        23         0       .00    237.58  10200.00


*SECNO 1.287
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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1.287	5.25	1099.25	1099.25	.00	1101.02	1.78	1.05	.13	1098.00
6601.0	12.6	6554.9	33.5	3.9	610.9	13.6	96.8	40.7	1098.00
.24	3.24	10.73	2.46	.030	.030	.040	.000	1094.00	9973.76
.008225	160.	140.	120.	20	11	0	.00	193.07	10166.83

*SECNO 1.313
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9920.1 10080.0 TYPE= 1 TARGET= 159.860

THE NEXT THREE UPSTREAM CROSS SECTIONS FLOW THROUGH A DETENTIION
BASIN AND EFFECTIVE FLOW LIMITS ARE IMPOSED TO MODEL THIS SITUATION
CORRECTLY. MAPPED LIMITS ARE SMOWN ON THE FLOODPLAIN MAP TO
CORRECTLY DEPICT THE ACTUAL PONDING AREA.

1

CONFLUENCE OF BULLDOZER WASH

1.313	5.98	1100.98	1100.98	.00	1102.96	1.99	1.01	.11	1096.00
6601.0	610.9	5056.8	933.3	76.8	410.7	143.7	98.9	41.3	1096.00
.24	7.96	12.31	6.50	.030	.030	.040	.000	1095.00	9920.14
.006405	145.	140.	135.	3	8	0	.00	159.62	10079.76

*SECNO 1.322

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.54

3470 ENCROACHMENT STATIONS= 9875.9 10110.0 TYPE= 1 TARGET= 234.100

1.322	8.29	1103.29	.00	.00	1103.56	.27	.08	.51	1096.00
6601.0	594.1	6006.9	.0	196.1	1401.6	.0	100.6	41.7	100000.00
.25	3.03	4.29	.00	.030	.030	.000	.000	1095.00	9877.18
.000511	150.	50.	150.	3	0	0	.00	232.82	10110.00

CCHV= .100 CEHV= .300
*SECNO 1.362

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.54

3470 ENCROACHMENT STATIONS= 9877.2 10100.0 TYPE= 1 TARGET= 222.760

Q AT X1 = 1.362 TO X1 = 1.614 EQUALS (Q AT CP39 + 1/5 HYDROGRAPH AT 42)
Q = 6018 + 1/5(1029) = 6225 CFS

1.362	21.50	1103.50	.00	.00	1103.61	.10	.03	.02	1090.00
6225.0	550.3	4859.7	815.0	332.5	1717.9	582.7	111.1	42.7	1090.00
.27	1.66	2.83	1.40	.030	.030	.040	.000	1082.00	9878.68
.000070	150.	210.	300.	2	0	0	.00	221.32	10100.00

*SECNO 1.422

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.422	7.90	1106.40	1106.40	.00	1109.05	2.65	.07	.76	1108.00
6225.0	.0	6225.0	.0	.0	476.8	.0	122.3	43.9	1108.00
.27	.00	13.06	.00	.000	.030	.000	.000	1098.50	9948.99
.007969	315.	315.	315.	20	22	0	.00	92.02	10041.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.518

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.518	6.83	1113.73	1113.73	.00	1115.52	1.79	3.57	.09	1110.00
6225.0	41.3	4942.8	1240.8	10.4	418.0	276.9	129.1	45.7	1112.00
.29	3.97	11.82	4.48	.040	.030	.050	.000	1106.90	9969.41
.006346	495.	505.	495.	20	15	0	.00	223.97	10237.96

*SECNO 1.614
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.614	9.55	1123.45	1123.45	.00	1125.74	2.28	3.05	.15	1122.00
6225.0	11.8	6049.9	163.3	5.3	492.1	76.1	136.6	48.0	1122.00
.30	2.23	12.29	2.15	.040	.030	.050	.000	1113.90	9967.73
.005671	510.	510.	505.	20	11	0	.00	182.92	10150.65

*SECNO 1.710
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 1.710 TO 2.088 EQUALS (Q AT 1.299 + Q AT CP39)/2
Q = (6225 + 6110)/2 = 6168 CFS

1.710	10.93	1130.93	1130.93	.00	1133.59	2.66	3.37	.11	1132.00
6168.0	.0	6168.0	.0	.0	471.3	.0	142.7	49.6	1132.00
.31	.00	13.09	.00	.000	.030	.000	.000	1120.00	9967.67
.007958	505.	505.	510.	20	8	0	.00	88.96	10056.63

*SECNO 1.805
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

1.805	10.50	1138.10	1138.10	.00	1141.02	2.92	4.00	.08	1138.00
6168.0	.0	6167.9	.1	.0	450.1	.2	147.9	50.6	1138.00
.32	.03	13.70	.36	.040	.030	.050	.000	1127.60	9969.75
.008051	500.	500.	500.	20	11	0	.00	84.04	10053.79

*SECNO 1.898

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.898	7.99	1145.29	1145.29	.00	1147.47	2.18	3.49	.07	1140.00
6168.0	104.0	3941.4	2122.6	21.0	278.6	354.8	154.2	52.0	1140.00
.33	4.96	14.15	5.98	.040	.030	.050	.000	1137.30	9972.07
.006227	495.	495.	495.	20	15	0	.00	165.15	10137.22

*SECNO 1.994
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.994	8.88	1152.38	1152.38	.00	1154.89	2.52	3.15	.10	1150.00
6168.0	22.1	5985.9	160.0	7.1	463.6	55.5	161.1	53.7	1150.00
.34	3.13	12.91	2.88	.040	.030	.050	.000	1143.50	9969.06
.006241	505.	505.	505.	20	8	0	.00	123.75	10092.81

*SECNO 2.088
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.088	9.26	1159.36	1159.36	.00	1161.81	2.45	3.22	.01	1158.00
6168.0	5.2	5894.3	268.6	2.3	459.6	74.1	167.1	55.1	1159.00
.36	2.25	12.83	3.62	.040	.030	.050	.000	1150.10	9971.61
.006793	495.	495.	495.	20	8	0	.00	128.57	10100.18

*SECNO 2.170

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 2.170 TO X1 = 2.659 EQUALS Q AT CP39
Q = 6110 CFS

2.170	4.79	1167.39	1167.39	.00	1169.16	1.77	3.37	.07	1170.70
6110.0	.0	6110.0	.0	.0	572.5	.0	172.6	56.6	1168.00
.37	.00	10.67	.00	.000	.030	.000	.000	1162.60	9964.34
.008904	430.	435.	445.	20	11	0	.00	164.60	10128.94

*SECNO 2.279

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

UPSTREAM OF THOMAS ROAD EXTENDED

2.279	7.31	1176.61	1176.61	.00	1179.18	2.57	4.87	.24	1177.60
6110.0	.0	6110.0	.0	.0	475.0	.0	179.6	58.3	1180.00
.38	.00	12.86	.00	.000	.030	.000	.000	1169.30	9945.88
.008064	580.	575.	570.	20	14	0	.00	94.03	10039.91

*SECNO 2.373

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

2.373	8.51	1180.51	.00	.00	1181.92	1.41	2.63	.12	1180.00
6110.0	2.3	4486.0	1621.6	2.6	413.2	405.3	186.9	60.1	1174.00
.39	.92	10.86	4.00	.040	.030	.050	.000	1172.00	9950.04
.003763	495.	495.	495.	2	0	0	.00	218.80	10168.84

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.468

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.468	7.64	1184.94	1184.94	.00	1187.04	2.09	2.42	.21	1180.00
6110.0	449.4	3787.0	1873.6	83.9	271.4	298.9	195.5	62.4	1180.00
.41	5.35	13.95	6.27	.040	.030	.050	.000	1177.30	9941.03
.006304	505.	505.	505.	20	11	0	.00	179.79	10120.81

*SECNO 2.563

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

CONFLUENCE OF CATERPILLAR WASH

2.563	8.80	1191.10	1191.10	.00	1192.63	1.54	2.32	.06	1184.00
6110.0	348.4	4202.7	1558.9	72.5	357.6	487.5	204.5	65.4	1184.00
.42	4.81	11.75	3.20	.040	.030	.050	.000	1182.30	9944.81
.003564	500.	500.	500.	20	8	0	.00	343.89	10288.70

*SECNO 2.659
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.659	8.07	1193.87	1193.87	.00	1195.83	1.96	2.19	.13	1190.00
6110.0	47.8	4398.0	1664.3	12.5	340.1	357.9	213.9	68.5	1188.00
.44	3.82	12.93	4.65	.040	.030	.050	.000	1185.80	9968.55
.005384	505.	505.	505.	20	11	0	.00	189.86	10158.41

*SECNO 2.753

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

Q @ X1=3.753 TO X1=3.250 EQUALS Q @ CP27
Q = 3011 CFS

2.753	7.23	1197.53	1197.04	.00	1198.44	.91	2.51	.10	1196.00
3011.0	102.7	2842.0	66.3	47.4	360.4	47.4	220.6	71.0	1196.00
.45	2.17	7.88	1.40	.040	.030	.050	.000	1190.30	9917.67

.004386	495.	500.	495.	7	12	0	.00	240.61	10162.31

*SECNO 2.848

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.848	7.03	1200.23	1200.23	.00	1201.89	1.66	2.52	.22	1198.00
3011.0	60.4	2561.7	388.9	18.6	231.0	98.8	225.2	73.0	1197.90
.47	3.25	11.09	3.93	.040	.030	.050	.000	1193.20	9964.14
.005881	495.	500.	495.	2	8	0	.00	116.13	10080.27

*SECNO 2.943

2.943	7.63	1203.43	.00	.00	1204.62	1.19	2.68	.05	1207.10
3011.0	.0	2530.0	481.0	.0	270.0	111.2	229.4	74.3	1200.50
.48	.00	9.37	4.32	.000	.030	.050	.000	1195.80	9960.50
.004911	500.	500.	500.	2	0	0	.00	107.39	10067.89

*SECNO 3.057
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.057	6.47	1205.87	1205.87	.00	1207.34	1.48	2.59	.09	1202.00
3011.0	74.3	2197.0	739.6	18.7	196.4	200.4	234.0	75.9	1202.00
.50	3.97	11.18	3.69	.040	.030	.050	.000	1199.40	9975.33
.005235	505.	510.	510.	2	12	0	.00	168.47	10143.80

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.148

3301 HV CHANGED MORE THAN HVINS

3.148	8.87	1208.87	.00	.00	1209.68	.81	2.27	.07	1210.00
3011.0	.0	2315.5	695.5	.0	284.3	284.8	240.6	78.5	1206.00
.52	.00	8.14	2.44	.000	.030	.050	.000	1200.00	9976.87
.003081	575.	575.	580.	1	0	0	.00	226.65	10203.52

*SECNO 3.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

DOWNSTREAM OF INDIAN SCHOOL ROAD EXTENDED

CONFLUENCE OF TRACTOR WASH

3.250	2.82	1213.72	1213.72	.00	1214.69	.97	2.62	.05	1212.00
3011.0	82.9	2785.7	142.3	25.8	340.2	55.3	246.5	81.3	1212.00

.54	3.21	8.19	2.57	.040	.030	.050	.000	1210.90	9939.93
.009173	515.	535.	505.	20	17	0	.00	244.49	10184.43

CNO 3.344

3301 HV CHANGED MORE THAN HVINS

Q @ X1 = 3.344 TO X1 = 3.912 EQUALS Q AT CP25
Q = 1414 CFS

3.344	3.84	1216.64	.00	.00	1216.82	.18	2.05	.08	1214.00
1414.0	13.9	1266.8	133.2	8.7	351.4	93.4	251.6	84.0	1214.00
.58	1.60	3.61	1.43	.040	.030	.050	.000	1212.80	9978.40
.001409	495.	500.	505.	3	0	0	.00	221.88	10200.27

*SECNO 3.439

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.84

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.439	3.61	1217.11	.00	.00	1217.18	.07	.35	.01	1214.00
1414.0	7.4	1297.4	109.2	8.1	571.2	114.8	258.1	86.7	1214.00
.65	.92	2.27	.95	.040	.030	.050	.000	1213.50	9974.82
.000418	500.	500.	500.	3	0	0	.00	241.84	10216.65

*SECNO 3.535

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.535	2.45	1217.25	1217.25	.00	1218.15	.90	.59	.25	1216.00
1414.0	5.2	1395.6	13.1	2.0	182.7	5.9	263.3	88.7	1216.00
.67	2.67	7.64	2.23	.040	.030	.050	.000	1214.80	9976.87
.010674	500.	505.	500.	20	19	0	.00	112.52	10089.39

*SECNO 3.631

3301 HV CHANGED MORE THAN HVINS

MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

3.631	4.03	1222.23	1222.23	.00	1223.70	1.47	4.88	.17	1220.00
1414.0	12.2	1383.1	18.6	3.7	140.8	6.3	265.3	89.7	1220.00
.68	3.28	9.83	2.94	.040	.030	.050	.000	1218.20	9976.66
.008640	510.	510.	510.	3	14	0	.00	55.05	10031.71

*SECNO 3.724

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.724	3.82	1230.42	1230.42	.00	1231.14	.72	4.57	.07	1230.00
1414.0	1.2	853.9	558.9	.9	104.9	137.4	267.5	91.1	1230.00
.70	1.32	8.14	4.07	.040	.030	.050	.000	1226.60	9975.81
.010183	495.	490.	480.	15	12	0	.00	193.38	10169.19

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.818
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.818	3.90	1236.20	1236.20	.00	1236.79	.60	4.11	.01	1234.00
1414.0	11.9	872.6	529.6	4.0	114.5	198.0	270.7	93.6	1235.30
.73	2.95	7.62	2.68	.040	.030	.050	.000	1232.30	9981.34
.006855	495.	495.	500.	4	5	0	.00	255.01	10236.35

*SECNO 3.912

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.912	3.98	1243.08	1243.08	.00	1244.24	1.16	3.36	.17	1240.00
1414.0	45.9	1163.6	204.5	11.9	123.6	66.1	273.6	95.7	1240.00
.74	3.87	9.41	3.09	.040	.030	.050	.000	1239.10	9972.29
.006725	495.	495.	495.	20	8	0	.00	99.34	10071.64

*SECNO 4.006
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 4.006 TO X1 = 4.653 EQUALS (Q AT CP25 + Q AT CP22A)/2
Q = (1414 + 1108)/2 = 1261 CFS

4.006	3.66	1249.66	1249.66	.00	1250.86	1.20	4.06	.01	1250.00
1261.0	.0	1261.0	.0	.0	143.4	.0	275.6	96.6	1250.00
.76	.00	8.79	.00	.000	.030	.000	.000	1246.00	9980.86
.010222	500.	500.	505.	20	11	0	.00	60.70	10041.56

*SECNO 4.101

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.101	2.04	1257.84	1257.84	.00	1258.43	.59	4.94	.06	1256.50
1261.0	135.9	842.9	282.2	41.0	117.3	93.1	277.9	98.2	1256.50
.78	3.31	7.18	3.03	.040	.030	.050	.000	1255.80	9920.00
.009574	495.	500.	500.	5	11	0	.00	215.32	10135.33

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.196

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.196	3.22	1263.02	1263.02	.00	1264.11	1.09	4.53	.15	1264.00
1261.0	.0	1231.4	29.6	.0	145.3	16.8	280.2	99.9	1262.00
.80	.00	8.48	1.76	.000	.030	.050	.000	1259.80	9967.46
.008623	500.	500.	495.	2	14	0	.00	90.62	10058.08

*SECNO 4.289
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

UPSTREAM OF CAMELBACK ROAD EXTENDED

4.289	2.94	1270.34	1270.34	.00	1270.99	.64	4.24	.04	1268.00
1261.0	168.5	575.9	516.5	41.2	66.1	156.8	282.6	101.5	1268.00
.82	4.09	8.72	3.30	.040	.030	.050	.000	1267.40	9949.59
.008490	495.	495.	495.	12	15	0	.00	189.12	10138.71

*SECNO 4.375

4.375	2.63	1274.33	.00	.00	1275.14	.80	4.10	.05	1272.00
1261.0	11.8	674.4	574.8	3.4	74.5	138.3	285.1	103.1	1272.00
.84	3.48	9.05	4.16	.040	.030	.050	.000	1271.70	9992.08
.009941	445.	450.	445.	3	0	0	.00	125.41	10117.49

*SECNO 4.469

4.469	3.08	1278.18	.00	.00	1278.76	.57	3.59	.02	1276.00
1261.0	35.8	915.7	309.5	11.9	131.6	125.5	287.9	104.8	1276.00
.86	3.01	6.96	2.47	.040	.030	.050	.000	1275.10	9984.54
.005439	500.	500.	500.	4	0	0	.00	174.58	10159.13

*SECNO 4.563
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.563	3.47	1281.57	1281.57	.00	1282.41	.84	3.12	.08	1280.00
1261.0	24.9	1089.2	146.9	9.2	138.5	67.6	290.6	106.7	1280.00

.88	2.70	7.86	2.17	.040	.030	.050	.000	1278.10	9973.24
.007388	500.	495.	495.	3	8	0	.00	153.01	10126.25

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.653

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.08

4.653	3.91	1283.61	.00	.00	1283.94	.33	1.48	.05	1282.00
1261.0	4.2	1214.7	42.1	3.3	259.9	39.4	293.5	108.2	1282.00
.91	1.27	4.67	1.07	.040	.030	.050	.000	1279.70	9960.95
.001711	475.	475.	475.	3	0	0	.00	127.69	10088.64

*SECNO 4.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1= 4.725 EQUALS Q @ CP22A
Q = 1108 CFS

CONFLUENCE OF CATERPILLAR DIKE WASH

4.725	2.30	1285.30	1285.30	.00	1286.14	.84	1.21	.15	1286.50
1108.0	.0	1049.0	59.0	.0	139.5	27.5	295.5	109.3	1284.00
.93	.00	7.52	2.14	.000	.030	.050	.000	1283.00	9970.14
.009227	380.	380.	380.	20	11	0	.00	112.17	10082.30

1
PROFILE FOR STREAM TUTHILL DIKE WASH - WASH

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ATION	1033.	1083.	1133.	1183.	1233.	1283.	1333.	1383.	1433.	1483.
SECNO	CUMDIS									
.00	0. IEM	.	.	.	.	.	.	.	.	.
	50. IEM	.	.	.	.	.	.	.	.	.
	100. IEM	.	.	.	.	.	.	.	.	.
	150. IWE	.	.	.	.	.	.	.	.	.

	200.	IWE	.	.	.	.	.	.	.	.	.	.
	250.	IWE	.	.	.	.	.	.	.	.	.	.
	300.	IWE	.	.	.	.	.	.	.	.	.	.
	350.	ILE	.	.	.	.	.	.	.	.	.	.
.08	400.	ILE	.	.	.	.	.	.	.	.	.	.
	450.	ILE	.	.	.	.	.	.	.	.	.	.
	500.	CIE	.	.	.	.	.	.	.	.	.	.
	550.	CIE	.	.	.	.	.	.	.	.	.	.
	600.	CIE	.	.	.	.	.	.	.	.	.	.
	650.	CIE	.	.	.	.	.	.	.	.	.	.
	700.	CIE	.	.	.	.	.	.	.	.	.	.
	750.	CIE	.	.	.	.	.	.	.	.	.	.
	800.	CIE	.	.	.	.	.	.	.	.	.	.
	850.	CIE	.	.	.	.	.	.	.	.	.	.
	900.	CIE	.	.	.	.	.	.	.	.	.	.
	950.	CIE	.	.	.	.	.	.	.	.	.	.
.19	1000.	.IE	.	.	.	.	.	.	.	.	.	.
	1050.	.IE	.	.	.	.	.	.	.	.	.	.
	1100.	.IE	.	.	.	.	.	.	.	.	.	.
	1150.	.IWE	.	.	.	.	.	.	.	.	.	.
	1200.	.IWE	.	.	.	.	.	.	.	.	.	.
	1250.	.IWE	.	.	.	.	.	.	.	.	.	.
	1300.	.ILE	.	.	.	.	.	.	.	.	.	.
	1350.	. IE	.	.	.	.	.	.	.	.	.	.
	1400.	. IE	.	.	.	.	.	.	.	.	.	.
	1450.	. IE	.	.	.	.	.	.	.	.	.	.
	1500.	. IE	.	.	.	.	.	.	.	.	.	.
	1550.	. IE	.	.	.	.	.	.	.	.	.	.
	1600.	. IE	.	.	.	.	.	.	.	.	.	.
	1650.	. IE	.	.	.	.	.	.	.	.	.	.
.31	1700.	. IE	.	.	.	.	.	.	.	.	.	.
	1750.	. IE	.	.	.	.	.	.	.	.	.	.
	1800.	. IE	.	.	.	.	.	.	.	.	.	.
	1850.	. IEM	.	.	.	.	.	.	.	.	.	.
	1900.	. IEM	.	.	.	.	.	.	.	.	.	.
	1950.	. IWE	.	.	.	.	.	.	.	.	.	.
	2000.	. IWE	.	.	.	.	.	.	.	.	.	.
	2050.	. IE	.	.	.	.	.	.	.	.	.	.
	2100.	. IE	.	.	.	.	.	.	.	.	.	.
	2150.	. IE	.	.	.	.	.	.	.	.	.	.
.41	2200.	. IE	.	.	.	.	.	.	.	.	.	.
	2250.	. IE	.	.	.	.	.	.	.	.	.	.
	2300.	. IE	.	.	.	.	.	.	.	.	.	.
	2350.	. IE	.	.	.	.	.	.	.	.	.	.
	2400.	. IE	.	.	.	.	.	.	.	.	.	.
	2450.	. IE	.	.	.	.	.	.	.	.	.	.
	2500.	. IE	.	.	.	.	.	.	.	.	.	.
	2550.	. IWE	.	.	.	.	.	.	.	.	.	.
	2600.	. WE	.	.	.	.	.	.	.	.	.	.
	2650.	. IE	.	.	.	.	.	.	.	.	.	.
	2700.	. IE	.	.	.	.	.	.	.	.	.	.
	2750.	. IE	.	.	.	.	.	.	.	.	.	.
	2800.	. IE	.	.	.	.	.	.	.	.	.	.
.54	2850.	. IE	.	.	.	.	.	.	.	.	.	.
	2900.	. IE	.	.	.	.	.	.	.	.	.	.
	2950.	. IE	.	.	.	.	.	.	.	.	.	.
	3000.	. IE	.	.	.	.	.	.	.	.	.	.
	3050.	. IE	.	.	.	.	.	.	.	.	.	.
	3100.	. IWE	.	.	.	.	.	.	.	.	.	.
	3150.	. IWE	.	.	.	.	.	.	.	.	.	.
	3200.	. IE	.	.	.	.	.	.	.	.	.	.
	3250.	. IE	.	.	.	.	.	.	.	.	.	.

	3300.	.	IE	.	.	.	.	.	.	.	.	.	.
.63	3350.	.	IE	.	.	.	.	.	.	.	.	.	.
	3400.	.	IE	.	.	.	.	.	.	.	.	.	.
	3450.	.	IE	.	.	.	.	.	.	.	.	.	.
	3500.	.	IE	.	.	.	.	.	.	.	.	.	.
	3550.	.	IE	.	.	.	.	.	.	.	.	.	.
	3600.	.	IE	.	.	.	.	.	.	.	.	.	.
	3650.	.	IEM	.	.	.	.	.	.	.	.	.	.
	3700.	.	IWE	.	.	.	.	.	.	.	.	.	.
	3750.	.	IWE	.	.	.	.	.	.	.	.	.	.
	3800.	.	IWE	.	.	.	.	.	.	.	.	.	.
.73	3850.	.	WE	.	.	.	.	.	.	.	.	.	.
	3900.	.	IE	.	.	.	.	.	.	.	.	.	.
	3950.	.	IE	.	.	.	.	.	.	.	.	.	.
	4000.	.	IE	.	.	.	.	.	.	.	.	.	.
	4050.	.	IE	.	.	.	.	.	.	.	.	.	.
	4100.	.	IE	.	.	.	.	.	.	.	.	.	.
	4150.	.	IWE	.	.	.	.	.	.	.	.	.	.
	4200.	.	IWE	.	.	.	.	.	.	.	.	.	.
	4250.	.	IWE	.	.	.	.	.	.	.	.	.	.
	4300.	.	IWE	.	.	.	.	.	.	.	.	.	.
.82	4350.	.	ILE	.	.	.	.	.	.	.	.	.	.
	4400.	.	ILE	.	.	.	.	.	.	.	.	.	.
	4450.	.	ILE	.	.	.	.	.	.	.	.	.	.
	4500.	.	IE	.	.	.	.	.	.	.	.	.	.
	4550.	.	IE	.	.	.	.	.	.	.	.	.	.
	4600.	.	IE	.	.	.	.	.	.	.	.	.	.
	4650.	.	IE	.	.	.	.	.	.	.	.	.	.
	4700.	.	IWE.	.	.	.	.	.	.	.	.	.	.
	4750.	.	IWE.	.	.	.	.	.	.	.	.	.	.
	4800.	.	IWE.	.	.	.	.	.	.	.	.	.	.
.92	4850.	.	IWE.	.	.	.	.	.	.	.	.	.	.
	4900.	.	IWE.	.	.	.	.	.	.	.	.	.	.
	4950.	.	IE.	.	.	.	.	.	.	.	.	.	.
	5000.	.	IE.	.	.	.	.	.	.	.	.	.	.
	5050.	.	IE.	.	.	.	.	.	.	.	.	.	.
	5100.	.	IE.	.	.	.	.	.	.	.	.	.	.
	5150.	.	IE.	.	.	.	.	.	.	.	.	.	.
	5200.	.	IWE	.	.	.	.	.	.	.	.	.	.
	5250.	.	IWE	.	.	.	.	.	.	.	.	.	.
	5300.	.	IWE	.	.	.	.	.	.	.	.	.	.
1.01	5350.	.	IE	.	.	.	.	.	.	.	.	.	.
	5400.	.	IE	.	.	.	.	.	.	.	.	.	.
	5450.	.	IE	.	.	.	.	.	.	.	.	.	.
	5500.	.	IWE	.	.	.	.	.	.	.	.	.	.
	5550.	.	IWE	.	.	.	.	.	.	.	.	.	.
	5600.	.	IWE	.	.	.	.	.	.	.	.	.	.
1.07	5650.	.	IWE	.	.	.	.	.	.	.	.	.	.
	5700.	C	I.E	.	.	.	.	.	.	.	.	.	.
	5750.	C	I.WE	.	.	.	.	.	.	.	.	.	.
	5800.	C	I.WE	.	.	.	.	.	.	.	.	.	.
	5850.	C	I E	.	.	.	.	.	.	.	.	.	.
1.11	5900.	C	I E	.	.	.	.	.	.	.	.	.	.
1.12	5950.	C	I EM	.	.	.	.	.	.	.	.	.	.
	6000.	C	I EM L	.	.	.	.	.	.	.	.	.	.
	6050.	C	I EM L	.	.	.	.	.	.	.	.	.	.
1.15	6100.	C	IREM	. L	.	.	.	.	.	.	.	.	.
	6150.	C	IREM	L	.	.	.	.	.	.	.	.	.
	6200.	C	IREM L	.	.	.	.	.	.	.	.	.	.
	6250.	C	IREM L	.	.	.	.	.	.	.	.	.	.
	6300.	C	IREL	.	.	.	.	.	.	.	.	.	.
1.20	6350.	C	ILEM	.	.	.	.	.	.	.	.	.	.

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      6400.  C        .IEM     .        .        .        .        .        .        .        .        .
      6450.  C        .IEM     .        .        .        .        .        .        .        .        .
      6500.  C        .IWE     .        .        .        .        .        .        .        .        .
      6550.  C        .ILE     .        .        .        .        .        .        .        .        .
      6600.  C        .ILE     .        .        .        .        .        .        .        .        .
1.26  6650.  .        . IE     .        .        .        .        .        .        .        .        .
      6700.  .        . IEM    .        .        .        .        .        .        .        .        .
      6750.  .        . IEM    .        .        .        .        .        .        .        .        .
1.29  6800.  .        . IWE    .        .        .        .        .        .        .        .        .
      6850.  .        . IWE    .        .        .        .        .        .        .        .        .
      6900.  .        . IWE    .        .        .        .        .        .        .        .        .
1.31  6950.  .        . ILE    .        .        .        .        .        .        .        .        .
1.32  7000.  C        . ILE    .        .        .        .        .        .        .        .        R
      7050.  C        . I E    .        .        .        .        .        .        .        .        R
      7100.  C        .IL EM   .        .        .        .        .        .        .        .        R
      7150.  C        .IL EM   .        .        .        .        .        .        .        .        R
1.36  7200.  C        IL  EM   .        .        .        .        .        .        .        .        .
      7250.  C        I L EM   .        .        .        .        .        .        .        .        .
      7300.  C        .I LEM   .        .        .        .        .        .        .        .        .
      7350.  C        .I LWE   .        .        .        .        .        .        .        .        .
      7400.  C        . I WE   .        .        .        .        .        .        .        .        .
      7450.  C        . I LE   .        .        .        .        .        .        .        .        .
      7500.  .   C    .  I E   .        .        .        .        .        .        .        .        .
1.42  7550.  .        .  I E   .        .        .        .        .        .        .        .        .
      7600.  .        .  I EM  .        .        .        .        .        .        .        .        .
      7650.  .        .  I EM  .        .        .        .        .        .        .        .        .
      7700.  .        .   IWE  .        .        .        .        .        .        .        .        .
      7750.  .        .   IWE  .        .        .        .        .        .        .        .        .
      7800.  .        .   IWE  .        .        .        .        .        .        .        .        .
      7850.  .        .   ILE  .        .        .        .        .        .        .        .        .
      7900.  .        .   ILE  .        .        .        .        .        .        .        .        .
      7950.  .        .   ILE  .        .        .        .        .        .        .        .        .
      8000.  .        .    IE  .        .        .        .        .        .        .        .        .
1.52  8050.  .        .    IWE .        .        .        .        .        .        .        .        .
      8100.  .        .    IWE .        .        .        .        .        .        .        .        .
      8150.  .        .    ILE .        .        .        .        .        .        .        .        .
      8200.  .        .    ILE .        .        .        .        .        .        .        .        .
      8250.  .        .    ILE .        .        .        .        .        .        .        .        .
      8300.  .        .    I WE .       .        .        .        .        .        .        .        .
      8350.  .        .     IWE .       .        .        .        .        .        .        .        .
      8400.  .        .     IWE .       .        .        .        .        .        .        .        .
      8450.  .        .     ILE .       .        .        .        .        .        .        .        .
      8500.  .        .     I E .       .        .        .        .        .        .        .        .
1.61  8550.  .        .     I WE.       .        .        .        .        .        .        .        .
      8600.  .        .     I WE.       .        .        .        .        .        .        .        .
      8650.  .        .     I WE.       .        .        .        .        .        .        .        .
      8700.  .        .      ILE.       .        .        .        .        .        .        .        .
      8750.  .        .      I E.       .        .        .        .        .        .        .        .
      8800.  .        .      I E.       .        .        .        .        .        .        .        .
      8850.  .        .      I E.       .        .        .        .        .        .        .        .
      8900.  .        .      I WE       .        .        .        .        .        .        .        .
      8950.  .        .      I WE       .        .        .        .        .        .        .        .
      9000.  .        .      I WE       .        .        .        .        .        .        .        .
1.71  9050.  .        .      I  E       .        .        .        .        .        .        .        .
      9100.  .        .       I E       .        .        .        .        .        .        .        .
      9150.  .        .       I E       .        .        .        .        .        .        .        .
      9200.  .        .       I WE      .        .        .        .        .        .        .        .
      9250.  .        .       I WE      .        .        .        .        .        .        .        .
      9300.  .        .       I WE      .        .        .        .        .        .        .        .
      9350.  .        .       I WE      .        .        .        .        .        .        .        .
      9400.  .        .       I .E      .        .        .        .        .        .        .        .
      9450.  .        .        I.E      .        .        .        .        .        .        .        .
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      9500.  .        .      I.E       .         .         .         .         .         .         .         .
1.80  9550.  .        .      I.WE      .         .         .         .         .         .         .         .
      9600.  .        .      I.WE      .         .         .         .         .         .         .         .
      9650.  .        .      I.WE      .         .         .         .         .         .         .         .
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      9750.  .        .       ILE      .         .         .         .         .         .         .         .
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2.37 12550.  C        .       .       ILE        .         .         .         .         .         .         .
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	15700.	C	.	.	.	IEL	.	.	.	.	.	.	.
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	15800.	C	.	.	.	IWE	.	.	.	.	.	.	.
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	15900.	C	.	.	.	IWE	.	.	.	.	.	.	.
	15950.	C	.	.	.	IWE	.	.	.	.	.	.	.
	16000.	.	C	.	.	ILE	.	.	.	.	.	.	.
3.06	16050.	.	.	.	.	ILE	.	.	.	.	.	.	.
	16100.	.	.	C	.	ILEM	.	.	.	.	.	.	.
	16150.	C	.	.	.	ILEM	.	.	.	.	.	.	.
	16200.	C	.	.	.	ILEM	.	.	.	.	.	.	.
	16250.	C	.	.	.	ILEM	.	.	.	.	.	.	.
	16300.	C	.	.	.	ILEM	.	.	.	.	.	.	.
	16350.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16400.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16450.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16500.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16550.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16600.	C	.	.	.	I EM	.	.	.	.	.	.	.
3.15	16650.	C	.	.	.	I EM	.	.	.	.	.	.	.
	16700.	C	.	.	.	IEM	.	.	.	.	.	.	.
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	16800.	C	.	.	.	IWEM	.	.	.	.	.	.	.
	16850.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16900.	C	.	.	.	IREM	.	.	.	.	.	.	.
	16950.	C	.	.	.	IEM	.	.	.	.	.	.	.
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	17500.	C	.	.	.	WE	.	.	.	.	.	.	.
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	18500.	C	.	.	.	IE M.	.	.	.	.	.	.	.
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3.54	18700.	.	.	.	.	IE M.	.	.	.	.	.	.	.
	18750.	.	.	.	.	IE M.	.	.	.	.	.	.	.

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      18800.  .    .    .    .   IE M.    .    .    .    .    .    .
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      18900.  .    .    .    .    E M.    .    .    .    .    .    .
      18950.  .    .    .    .   WEM.    .    .    .    .    .    .
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	21900.	.	.	.	.	.	WE	.	.	.	.	.
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	22000.	.	.	.	.	.	IE	.	.	.	.	.
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	22850.	C	.	.	.	.	IE	.	.	.	.	.
	22900.	C	.	.	.	.	IE	.	.	.	.	.
	22950.	C	.	.	.	.	IEM.	.	.	.	.	.
	23000.	C	.	.	.	.	EM.	.	.	.	.	.
	23050.	C	.	.	.	.	EM.	.	.	.	.	.
4.38	23100.	C	.	.	.	.	EM.	.	.	.	.	.
	23150.	C	.	.	.	.	WE.	.	.	.	.	.
	23200.	C	.	.	.	.	WE.	.	.	.	.	.
	23250.	C	.	.	.	.	WE.	.	.	.	.	.
	23300.	C	.	.	.	.	IE.	.	.	.	.	.
	23350.	C	.	.	.	.	IE.	.	.	.	.	.
	23400.	C	.	.	.	.	IE.	.	.	.	.	.
	23450.	C	.	.	.	.	IE.	.	.	.	.	.
	23500.	C	.	.	.	.	IE.	.	.	.	.	.
	23550.	C	.	.	.	.	IEM	.	.	.	.	.
4.47	23600.	C	.	.	.	.	IEM	.	.	.	.	.
	23650.	C	.	.	.	.	IEM	.	.	.	.	.
	23700.	C	.	.	.	.	EM	.	.	.	.	.
	23750.	C	.	.	.	.	EM	.	.	.	.	.
	23800.	C	.	.	.	.	EM	.	.	.	.	.
	23850.	C	.	.	.	.	WE	.	.	.	.	.
	23900.	C	.	.	.	.	WE	.	.	.	.	.
	23950.	C	.	.	.	.	IE	.	.	.	.	.
	24000.	.C	.	.	.	.	IE	.	.	.	.	.
	24050.	.	.	.	C	.	IE	.	.	.	.	.
4.56	24100.	.	.	.	.	.	IE	.	.	.	.	.
	24150.	.	.	.	C	.	IE	.	.	.	.	.
	24200.	C	.	.	.	.	IE	.	.	.	.	.
	24250.	C	.	.	.	.	IE	.	.	.	.	.
	24300.	C	.	.	.	.	IE	.	.	.	.	.
	24350.	C	.	.	.	.	IE	.	.	.	.	.
	24400.	C	.	.	.	.	IE	.	.	.	.	.
	24450.	C	.	.	.	.	IE	.	.	.	.	.
	24500.	C	.	.	.	.	IE	.	.	.	.	.
	24550.	C	.	.	.	.	IEM	.	.	.	.	.
4.65	24600.	C	.	.	.	.	IEM	.	.	.	.	.
	24650.	C	.	.	.	.	IEM	.	.	.	.	.
	24700.	C	.	.	.	.	EM	.	.	.	.	.
	24750.	C	.	.	.	.	EM	.	.	.	.	.
	24800.	C	.	.	.	.	EM	.	.	.	.	.
	24850.	C	.	.	.	.	EM	.	.	.	.	.
	24900.	C	.	.	.	.	WE	.	.	.	.	.
4.72	24950.	.	.	.	.	.	WE	.	.	.	.	.

WHITE TANKS/AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100-YEAR STORM EVENT FLOODWAY RUN
T3 TUTHILL DIKE WASH - WASH "5"

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							1039.06	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

OF 2

CCHV= .100 CEHV= .300
*SECNO .000

3470 ENCROACHMENT STATIONS= 9945.5 10068.7 TYPE= 1 TARGET= 123.250

Q @ X1 = 0.000 TO X1 = 1.012 EQUALS Q AT I6CWT4
Q = 4057 CFS

MATCH FLOODPLAIN INTO 100-YEAR PONDING WSEL BEHIND WHITE TANKS
STRUCTURE # 4

.000	6.06	1039.06	.00	1039.06	1040.11	1.05	.00	.00	100000.00
4057.0	.0	4057.0	.0	.0	493.6	.0	.0	.0	100000.00
.00	.00	8.22	.00	.000	.030	.000	.000	1033.00	9945.48
.004367	0.	0.	0.	0	0	0	.00	123.25	10068.73

*SECNO .075

3470 ENCROACHMENT STATIONS= 9910.0 10073.4 TYPE= 1 TARGET= 163.380

.075	5.84	1040.84	.00	1040.84	1041.53	.70	1.39	.04	1036.00
4057.0	740.7	3314.8	1.5	142.0	474.8	1.4	5.1	1.3	1040.00
.02	5.22	6.98	1.09	.030	.030	.040	.000	1035.00	9910.00
002833	400.	400.	400.	2	0	0	.00	163.36	10073.36

*SECNO .186

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9950.0 10068.5 TYPE= 1 TARGET= 118.550

.186	4.75	1043.25	1043.25	1043.71	1045.10	1.85	2.52	.35	1040.00
4057.0	155.1	3785.6	116.3	26.5	337.7	26.5	11.8	3.2	1040.00
.03	5.86	11.21	4.40	.030	.030	.040	.000	1038.50	9953.74
.007516	580.	580.	580.	3	15	0	.00	112.53	10066.26

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .314

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9925.0 10080.0 TYPE= 1 TARGET= 155.000

.314	5.56	1048.06	.00	1047.99	1049.09	1.03	3.91	.08	1048.00
4057.0	.0	4057.0	.0	.1	497.5	.0	18.7	5.0	100000.00
.05	.31	8.16	.00	.030	.030	.000	.000	1042.50	9945.41
.004566	500.	680.	720.	2	0	0	.00	134.59	10080.00

*SECNO .415
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9940.0 10175.0 TYPE= 1 TARGET= 235.000

.415	4.68	1051.88	1051.88	1051.93	1053.02	1.14	3.23	.03	1050.00
4057.0	.0	3407.4	649.6	.0	371.1	159.6	25.5	7.6	1050.00
.07	.00	9.18	4.07	.000	.030	.040	.000	1047.20	9940.00
.007795	300.	530.	800.	2	15	0	.00	235.00	10175.00

*SECNO .540
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9911.8 10110.0 TYPE= 1 TARGET= 198.250

.540	4.46	1057.46	1057.46	1057.55	1058.73	1.28	4.95	.04	1056.00
4057.0	42.5	3580.1	434.4	12.5	375.2	104.9	33.2	10.9	1056.00
.09	3.41	9.54	4.14	.030	.030	.040	.000	1053.00	9912.87
.007254	660.	660.	650.	3	11	0	.00	197.13	10110.00

*SECNO .634
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9951.0 10105.0 TYPE= 1 TARGET= 154.020

.634	4.99	1061.79	1061.79	1061.80	1063.28	1.49	3.37	.06	1058.00
4057.0	215.0	3265.2	576.9	35.9	307.1	123.7	38.6	12.9	1058.00
.11	6.00	10.63	4.67	.030	.030	.040	.000	1056.80	9951.07

```
   .006421      495.      495.      495.         2         8         0       .00    153.93  10105.00


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .729

3470 ENCROACHMENT STATIONS=     9953.5   10085.0  TYPE=       1  TARGET=      131.480
     .729      4.64   1065.34       .00   1065.30   1066.77      1.43      3.48       .01   1064.00
   4057.0      15.0    4042.0        .0       4.5     420.8        .0      43.8      14.5 100000.00
     .12      3.33      9.60       .00      .030      .030      .000      .000   1060.70   9953.52
  .007584      500.      500.      500.         1         0         0       .00    131.48  10085.00


*SECNO  .823

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9952.7   10045.3  TYPE=       1  TARGET=       92.560
     .823      6.44   1070.94   1070.94   1070.92   1073.07      2.13      3.74       .21   1070.00
   4057.0       2.8    4039.6      14.6       1.1     344.3       7.4      48.2      15.8   1070.00
     .13      2.50     11.73      1.98      .030      .030      .040      .000   1064.50   9952.71
  .007523      495.      495.      495.         9        11         0       .00     92.56  10045.27


*SECNO  .917

3470 ENCROACHMENT STATIONS=     9956.3   10050.0  TYPE=       1  TARGET=       93.700
     .917      5.41   1074.71   1074.62   1074.73   1076.72      2.01      3.64       .01   1072.00
   4057.0      50.5    3993.9      12.6       9.7     348.7       5.9      52.3      16.9   1074.00
     .15      5.18     11.46      2.13      .030      .030      .040      .000   1069.30   9956.49
  .007036      500.      500.      500.         0        15         0       .00     93.51  10050.00


*SECNO 1.012
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9936.4   10028.6  TYPE=       1  TARGET=       92.199
    1.012      5.05   1080.75   1080.75   1080.73   1082.83      2.09      3.73       .02   1080.00
   4057.0       3.2    4048.1       5.7       1.4     348.7       3.3      56.4      17.9   1080.00
     .16      2.28     11.61      1.74      .030      .030      .040      .000   1075.70   9936.36
  .007912      500.      500.      500.         5        11         0       .00     92.20  10028.56


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
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```
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


V=     .300 CEHV=     .500
*SECNO 1.067

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9977.7   10022.0  TYPE=      1  TARGET=       44.300

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1088.00 ELREA=      1088.00


          Q @ X1 = 1.067 TO X1 = 1.110 EQUALS Q AT CP43 (AFTER DIVERT)
          Q = 4061 CFS
          FLOW LEFT OVER AFTER WEIR FLOW OVER DIKE UPSTREAM OF CULVERT

          4 - 10ft x 8ft x 227ft BC AT INTERSTATE 10

    1.067      6.37   1085.01   1085.01   1085.01   1088.23      3.22      1.18       .57   1078.64
   4061.0        .0    4061.0       .0       .0     282.0        .0      58.5      18.4 100000.00
      .16       .00     14.40       .00      .000      .016      .000      .000   1078.64   9977.70
  .002423      293.      293.      293.        20        11         0       .00     44.30  10022.00


SPECIAL CULVERT

SC  CUNO      CUNV      ENTLC     COFQ      RDLEN     RISE      SPAN      CULVLN    CHRT      SCL       ELCHU     ELCHD
    4         .016      .50       2.60      .00       8.00      10.00     227.00    8         1         1081.16   1078.64

CHART  8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE  1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 1.110
BTCARD, BRIDGE STENCL=    9950.00   STENCR=   10022.00

SPECIAL CULVERT INLET CONTROL + WEIR FLOW, EG =   1093.68

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.37

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL CULVERT

    EGIC      EGOC        H4     QWEIR     QCULV       VCH     ACULV     ELTRD    WEIRLN
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```
 1093.80   1093.13      5.46       14.      4024.     6.084     320.0   1092.00        7.


0 ENCROACHMENT STATIONS=     9950.0   10022.0  TYPE=      1  TARGET=       72.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1092.00 ELREA=      1099.00


        PORTION OF FLOW FOR THE NEXT FOUR CROSS SECTIONS UPSTREAM
        IS LOST AS WEIR FLOW OVER THE DIKE TO THE EAST
        APPROXIMATELY 1440 CFS FLOWS EAST OVER DIKE

        EFFECTIVE FLOW OPTION IS INCORPORATED FOR THE NEXT 5 UPSTREAM CROSS
        SECTIONS AS A RESULT OF PONDING AND UPSTREAM AND DOWNSTREAM EXPANSION
        AND CONTRATION FLOW SITUATIONS.

        ACTUAL MAPPED LIMITS CORRESPOND TO WATER SURFACE ELEVATIONS AND ARE
        SHOWN CORRECTLY ON THE FLOODPLAIN WORK MAP.

   1.110     12.06   1093.16       .00   1093.14   1093.68       .52      5.46       .00   1081.16
  4061.0     809.1    3251.9        .0     182.4     534.5        .0      61.1      18.7 100000.00
     .18      4.44      6.08       .00      .016      .016      .000      .000   1081.10   9950.00
 .000214      227.      227.      227.         2         0         0       .00     72.00  10022.00


*SECNO 1.118

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.53


3470 ENCROACHMENT STATIONS=     9920.0   10100.0  TYPE=      1  TARGET=      180.000

        Q @ X1 = 1.118 TO X1  = 1.198 EQUALS STORAGE ROUTED Q AT CP43
        Q = 5503 CFS

   1.118     12.14   1093.64       .00   1093.65   1093.80       .16       .00       .11   1091.50
  5503.0        .0    2897.5    2605.5        .0     959.0     786.2      62.3      18.8   1082.00
     .18       .00      3.02      3.31      .000      .016      .016      .000   1081.50   9920.00
 .000061       40.       40.       40.         2         0         0       .00    180.00  10100.00


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 1.152

 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .35


3470 ENCROACHMENT STATIONS=     9930.0   10150.0  TYPE=      1  TARGET=      220.000
   1.152     11.61   1093.61       .00   1093.62   1093.84       .23       .02       .02   1143.00
  5503.0        .0    3765.2    1737.8        .0     880.7     639.7      69.0      19.6   1086.00
     .19       .00      4.28      2.72      .000      .030      .040      .000   1082.00   9930.00
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```
   .000508      180.      180.      180.         2         0         0       .00    220.00  10150.00


*SECNO 1.198

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .58


3470 ENCROACHMENT STATIONS=     9925.0   10200.0  TYPE=      1  TARGET=      275.000
     1.198      8.29   1093.59       .00   1093.60   1094.13       .54       .19       .09   1090.00
    5503.0      50.0    3830.3    1622.6      16.1     564.2     530.5      76.2      21.0   1090.00
       .20      3.10      6.79      3.06      .030      .030      .040      .000   1085.30   9936.02
   .001526      235.      240.      235.         2         0         0       .00    263.98  10200.00


CCHV=     .300 CEHV=     .500
*SECNO 1.260

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9945.0   10200.0  TYPE=      1  TARGET=      255.000

          Q @ X1 = 1.260 TO X1 = 1.322 EQUALS ROUTED Q AT CP42
          Q = 6601 CFS


          UPSTREAM OF MCDOWELL ROAD

     1.260      5.53   1097.03   1097.03   1097.03   1098.55      1.52      1.00       .49   1094.00
    6601.0     138.7    3925.4    2537.0      21.7     332.3     419.0      83.2      22.8   1094.00
       .21      6.40     11.81      6.05      .030      .030      .040      .000   1091.50   9962.42
   .007196      340.      330.      315.        20        23         0       .00    237.58  10200.00


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.287
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9974.0   10145.0  TYPE=      1  TARGET=      171.040
     1.287      5.21   1099.21   1099.21   1099.25   1101.05      1.84      1.07       .16   1098.00
    6601.0      12.1    6588.9        .0       3.7     605.4        .0      85.3      23.4 100000.00
       .22      3.27     10.88       .00      .030      .030      .000      .000   1094.00   9973.96
   .008645      160.      140.      120.        20        11         0       .00    171.04  10145.00


*SECNO 1.313
7185 MINIMUM SPECIFIC ENERGY
```

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9920.1 10080.0 TYPE= 1 TARGET= 159.860

THE NEXT THREE UPSTREAM CROSS SECTIONS FLOW THROUGH A DETENTIION
BASIN AND EFFECTIVE FLOW LIMITS ARE IMPOSED TO MODEL THIS SITUATION
CORRECTLY. MAPPED LIMITS ARE SMOWN ON THE FLOODPLAIN MAP TO
CORRECTLY DEPICT THE ACTUAL PONDING AREA.

CONFLUENCE OF BULLDOZER WASH

1.313	5.98	1100.98	1100.98	1100.98	1102.96	1.99	1.03	.08	1096.00
6601.0	611.0	5056.6	933.4	76.8	410.8	143.7	87.3	24.0	1096.00
.22	7.96	12.31	6.49	.030	.030	.040	.000	1095.00	9920.14
.006401	145.	140.	135.	3	8	0	.00	159.63	10079.77

*SECNO 1.322

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.54

3470 ENCROACHMENT STATIONS= 9875.9 10110.0 TYPE= 1 TARGET= 234.100

1.322	8.29	1103.29	.00	1103.29	1103.56	.27	.08	.51	1096.00
6601.0	594.1	6006.9	.0	196.1	1401.6	.0	89.1	24.3	100000.00
.22	3.03	4.29	.00	.030	.030	.000	.000	1095.00	9877.18
.000511	150.	50.	150.	3	0	0	.00	232.82	10110.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 1.362

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.54

3470 ENCROACHMENT STATIONS= 9877.2 10100.0 TYPE= 1 TARGET= 222.760

Q AT X1 = 1.362 TO X1 = 1.614 EQUALS (Q AT CP39 + 1/5 HYDROGRAPH AT 42)
Q = 6018 + 1/5(1029) = 6225 CFS

1.362	21.50	1103.50	.00	1103.50	1103.61	.10	.03	.02	1090.00
6225.0	550.3	4859.7	815.0	332.5	1717.9	582.7	99.5	25.4	1090.00
.25	1.66	2.83	1.40	.030	.030	.040	.000	1082.00	9878.68
.000070	150.	210.	300.	2	0	0	.00	221.32	10100.00

*SECNO 1.422

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9949.0 10045.0 TYPE= 1 TARGET= 96.010

1.422	7.90	1106.40	1106.40	1106.40	1109.05	2.65	.07	.76	100000.00
6225.0	.0	6225.0	.0	.0	476.5	.0	110.7	26.5	100000.00
.25	.00	13.06	.00	.000	.030	.000	.000	1098.50	9949.00
.007981	315.	315.	315.	20	22	0	.00	92.01	10041.00

*SECNO 1.518
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9969.4 10090.0 TYPE= 1 TARGET= 120.600

1.518	7.36	1114.26	1114.26	1113.73	1116.97	2.71	3.79	.02	1110.00
6225.0	62.9	6125.6	36.5	13.4	460.3	13.2	116.3	27.6	1112.00
.26	4.70	13.31	2.76	.040	.030	.050	.000	1106.90	9969.40
.007069	495.	505.	495.	20	11	0	.00	100.54	10069.94

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.614
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9967.7 10110.0 TYPE= 1 TARGET= 142.280

1.614	9.45	1123.35	1123.35	1123.45	1125.76	2.41	3.34	.03	1122.00
6225.0	10.0	6088.9	126.1	4.5	483.6	54.9	122.3	29.1	1122.00
.28	2.20	12.59	2.30	.040	.030	.050	.000	1113.90	9968.26
.006091	510.	510.	505.	20	11	0	.00	141.74	10110.00

*SECNO 1.710
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9965.0 10070.0 TYPE= 1 TARGET= 105.000

Q @ X1 = 1.710 TO 2.088 EQUALS (Q AT 1.299 + Q AT CP39)/2
Q = (6225 + 6110)/2 = 6168 CFS

1.710	10.94	1130.94	1130.94	1130.93	1133.59	2.65	3.49	.07	1132.00
6168.0	.0	6168.0	.0	.0	472.5	.0	128.2	30.4	100000.00
.29	.00	13.05	.00	.000	.030	.000	.000	1120.00	9967.64
.007914	505.	505.	510.	20	8	0	.00	89.16	10056.80

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*SECNO 1.805
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9969.8   10050.0  TYPE=      1  TARGET=       80.250
    1.805     10.50   1138.10   1138.10   1138.10   1141.02      2.92      4.00       .08   1138.00
   6168.0        .0    6168.0       .0        .0     449.9        .0     133.5      31.4 100000.00
      .30       .03     13.71       .00      .040      .030      .000      .000   1127.60   9969.75
  .008074      500.      500.      500.        20        11         0       .00     80.25  10050.00


*SECNO 1.898
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1
  20MAY92      13:53:26                                                                                    PAGE   38


   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9972.1   10070.0  TYPE=      1  TARGET=       97.930
    1.898      7.90   1145.20   1145.20   1145.29   1147.98      2.78      3.85       .01   1140.00
   6168.0     108.9    4230.9    1828.1      20.2     274.8     249.3     139.2      32.4   1140.00
      .31      5.38     15.39      7.33      .040      .030      .050      .000   1137.30   9972.21
  .007502      495.      495.      495.        20        19         0       .00     97.79  10070.00


*SECNO 1.994
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9969.1   10092.8  TYPE=      1  TARGET=      123.750
    1.994      8.90   1152.40   1152.40   1152.38   1154.89      2.49      3.42       .03   1150.00
   6168.0      22.6    5982.2     163.3       7.2     465.3      56.5     145.4      33.7   1150.00
      .32      3.14     12.86      2.89      .040      .030      .050      .000   1143.50   9969.06
  .006160      505.      505.      505.        20         8         0       .00    123.75  10092.81


*SECNO 2.088
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9971.5   10055.0  TYPE=      1  TARGET=       83.550
    2.088      9.18   1159.28   1159.28   1159.36   1162.15      2.87      3.42       .11   1158.00
   6168.0       4.7    6163.3       .0       2.0     453.1        .0     151.0      34.8 100000.00
      .33      2.32     13.60       .00      .040      .030      .000      .000   1150.10   9971.81
  .007822      495.      495.      495.        20         8         0       .00     83.19  10055.00


*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

) ENCROACHMENT STATIONS= 9964.3 10128.9 TYPE= 1 TARGET= 164.590

1

Q @ X1 = 2.170 TO X1 = 2.659 EQUALS Q AT CP39
Q = 6110 CFS

2.170	4.79	1167.39	1167.39	1167.39	1169.16	1.77	3.63	.11	100000.00
6110.0	.0	6110.0	.0	.0	571.6	.0	156.1	36.1	100000.00
.34	.00	10.69	.00	.000	.030	.000	.000	1162.60	9964.35
.008945	430.	435.	445.	20	11	0	.00	164.54	10128.89

*SECNO 2.279

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9945.9 10039.9 TYPE= 1 TARGET= 94.030

UPSTREAM OF THOMAS ROAD EXTENDED

2.279	7.30	1176.60	1176.60	1176.61	1179.18	2.58	4.89	.24	100000.00
6110.0	.0	6110.0	.0	.0	474.2	.0	163.0	37.8	100000.00
.35	.00	12.88	.00	.000	.030	.000	.000	1169.30	9945.93
.008103	580.	575.	570.	20	14	0	.00	93.96	10039.90

*SECNO 2.373

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9950.0 10080.0 TYPE= 1 TARGET= 129.960

2.373	8.37	1180.37	.00	1180.51	1182.27	1.90	3.02	.07	1180.00
6110.0	1.1	4892.5	1216.3	1.3	405.5	231.7	169.3	39.0	1174.00
.37	.84	12.07	5.25	.040	.030	.050	.000	1172.00	9952.76
.004766	495.	495.	495.	2	0	0	.00	127.24	10080.00

*SECNO 2.468
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9941.0 10080.0 TYPE= 1 TARGET= 138.970

2.468	7.57	1184.87	1184.87	1184.94	1187.08	2.22	2.83	.10	1180.00
6110.0	443.6	3822.8	1843.6	81.4	268.4	274.8	176.7	40.6	1180.00
.38	5.45	14.24	6.71	.040	.030	.050	.000	1177.30	9941.55
.006670	505.	505.	505.	20	11	0	.00	138.45	10080.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.563
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9944.8 10100.0 TYPE= 1 TARGET= 155.190

CONFLUENCE OF CATERPILLAR WASH

2.563	8.62	1190.92	1190.92	1191.10	1193.20	2.28	2.83	.02	1184.00
6110.0	372.7	4728.3	1008.9	66.7	349.8	218.9	183.9	42.3	1184.00
.39	5.59	13.52	4.61	.040	.030	.050	.000	1182.30	9948.00
.004855	500.	500.	500.	20	8	0	.00	152.00	10100.00

*SECNO 2.659
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9968.5 10100.0 TYPE= 1 TARGET= 131.450

2.659	8.00	1193.80	1193.80	1193.87	1196.15	2.35	2.76	.02	1190.00
6110.0	48.6	4637.1	1424.3	12.0	336.3	261.4	191.1	43.9	1188.00
.40	4.05	13.79	5.45	.040	.030	.050	.000	1185.80	9968.67
.006218	505.	505.	505.	2	11	0	.00	131.32	10100.00

*SECNO 2.753

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9917.7 10110.0 TYPE= 1 TARGET= 192.330

Q @ X1=3.753 TO X1=3.250 EQUALS Q @ CP27
Q = 3011 CFS

2.753	7.66	1197.96	.00	1197.53	1198.64	.68	2.33	.17	1196.00
3011.0	167.1	2762.6	81.3	72.1	401.4	46.4	197.6	45.7	1196.00
.42	2.32	6.88	1.75	.040	.030	.050	.000	1190.30	9917.67
.002894	495.	500.	495.	3	0	0	.00	192.33	10110.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.848

3301 HV CHANGED MORE THAN HVINS

3465 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9964.0 10080.0 TYPE= 1 TARGET= 116.000

2.848	7.00	1200.20	1200.20	1200.23	1201.89	1.69	2.02	.30	1198.00
3011.0	58.4	2568.5	384.1	18.1	229.5	96.9	202.5	47.5	1197.90
.44	3.23	11.19	3.96	.040	.030	.050	.000	1193.20	9964.27
.006048	495.	500.	495.	20	11	0	.00	115.22	10079.49

*SECNO 2.943

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9960.5 10067.9 TYPE= 1 TARGET= 107.400

2.943	7.66	1203.46	.00	1203.43	1204.63	1.17	2.68	.05	100000.00
3011.0	.0	2527.4	483.6	.0	271.8	112.7	206.7	48.8	1200.50
.45	.00	9.30	4.29	.000	.030	.050	.000	1195.80	9960.50
.004797	500.	500.	500.	2	0	0	.00	107.40	10067.90

*SECNO 3.057

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9975.0 10075.0 TYPE= 1 TARGET= 100.000

3.057	6.39	1205.79	.00	1205.87	1207.47	1.67	2.69	.15	1202.00
3011.0	74.4	2264.9	671.7	18.0	193.9	146.6	211.1	50.0	1202.00
.47	4.13	11.68	4.58	.040	.030	.050	.000	1199.40	9975.51
.005813	505.	510.	510.	2	0	0	.00	99.49	10075.00

*SECNO 3.148

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9977.7 10100.0 TYPE= 1 TARGET= 122.300

3.148	9.03	1209.03	.00	1208.87	1209.96	.93	2.42	.07	100000.00
3011.0	.0	2465.9	545.1	.0	291.9	178.0	216.5	51.5	1206.00
.49	.00	8.45	3.06	.000	.030	.050	.000	1200.00	9977.70
.003177	575.	575.	580.	2	0	0	.00	122.30	10100.00

*SECNO 3.250

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0 ENCROACHMENT STATIONS= 9939.6 10150.0 TYPE= 1 TARGET= 210.380

DOWNSTREAM OF INDIAN SCHOOL ROAD EXTENDED

CONFLUENCE OF TRACTOR WASH

3.250	2.81	1213.71	1213.71	1213.72	1214.70	.99	2.69	.02	1212.00
3011.0	83.0	2795.2	132.8	25.7	339.7	39.4	221.8	53.5	1212.00
.51	3.23	8.23	3.37	.040	.030	.050	.000	1210.90	9939.99
.009278	515.	535.	505.	20	17	0	.00	210.01	10150.00

*SECNO 3.344

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9978.4 10150.0 TYPE= 1 TARGET= 171.570

Q @ X1 = 3.344 TO X1 = 3.912 EQUALS Q AT CP25
Q = 1414 CFS

3.344	3.85	1216.65	.00	1216.64	1216.84	.19	2.06	.08	1214.00
1414.0	14.3	1282.6	117.1	8.9	354.1	68.7	226.6	55.7	1214.00
.55	1.61	3.62	1.71	.040	.030	.050	.000	1212.80	9978.43
.001407	495.	500.	505.	3	0	0	.00	171.57	10150.00

*SECNO 3.439

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

3470 ENCROACHMENT STATIONS= 9974.8 10150.0 TYPE= 1 TARGET= 175.170

3.439	3.65	1217.15	.00	1217.11	1217.24	.09	.38	.01	1214.00
1414.0	8.3	1405.7	.0	8.3	577.8	.0	232.5	57.6	100000.00
.61	1.00	2.43	.00	.040	.030	.000	.000	1213.50	9974.83
.000484	500.	500.	500.	3	0	0	.00	175.17	10150.00

*SECNO 3.535

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9976.9 10089.4 TYPE= 1 TARGET= 112.520

3.535	2.46	1217.26	1217.26	1217.25	1218.15	.89	.66	.24	1216.00
1414.0	5.3	1395.4	13.3	2.0	183.5	6.0	237.0	59.3	1216.00
.62	2.67	7.60	2.24	.040	.030	.050	.000	1214.80	9976.87
.010515	500.	505.	500.	3	19	0	.00	112.52	10089.39

*SECNO 3.631

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9976.7 10031.7 TYPE= 1 TARGET= 55.040

3.631	4.03	1222.23	1222.23	1222.23	1223.70	1.46	4.83	.17	1220.00
1414.0	12.3	1383.0	18.7	3.7	141.0	6.4	239.0	60.3	1220.00
.64	3.28	9.81	2.94	.040	.030	.050	.000	1218.20	9976.66
.008589	510.	510.	510.	3	14	0	.00	55.04	10031.70

*SECNO 3.724
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9975.8 10070.0 TYPE= 1 TARGET= 94.180

3.724	4.61	1231.21	1231.21	1230.42	1232.28	1.07	3.97	.04	1230.00
1414.0	12.1	1262.1	139.8	4.2	144.4	48.3	240.9	61.1	1230.00
.66	2.89	8.74	2.90	.040	.030	.050	.000	1226.60	9975.82
.007684	495.	490.	480.	20	8	0	.00	94.18	10070.00

*SECNO 3.818
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9981.3 10070.0 TYPE= 1 TARGET= 88.660

3.818	3.98	1236.28	1236.28	1236.20	1237.39	1.11	4.29	.01	1234.00
1414.0	15.9	1104.3	293.8	4.3	118.4	70.5	243.2	62.2	1235.30
.67	3.67	9.33	4.16	.040	.030	.050	.000	1232.30	9981.34
.009832	495.	495.	500.	3	15	0	.00	88.66	10070.00

*SECNO 3.912
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9972.3 10070.0 TYPE= 1 TARGET= 97.710

3.912	4.01	1243.11	1243.11	1243.08	1244.24	1.13	3.91	.00	1240.00
1414.0	46.5	1158.5	209.0	12.1	124.7	67.8	245.4	63.2	1240.00
.69	3.84	9.29	3.08	.040	.030	.050	.000	1239.10	9972.29
.006470	495.	495.	495.	4	5	0	.00	97.71	10070.00

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*SECNO 4.006
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible]3 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.9   10041.6  TYPE=      1  TARGET=       60.699

          Q @ X1 = 4.006 TO X1 = 4.653 EQUALS (Q AT CP25 + Q AT CP22A)/2
          Q = (1414 + 1108)/2 = 1261 CFS

     4.006      3.65   1249.65   1249.65   1249.66   1250.86      1.21      3.98       .02 100000.00
    1261.0        .0    1261.0       .0        .0     143.0        .0     247.4      64.1 100000.00
       .70       .00      8.82       .00      .000      .030      .000      .000   1246.00   9980.88
   .010292      500.      500.      505.        20        11         0       .00     60.63  10041.50


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   20MAY92      13:53:26                                                                                PAGE   45


    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 4.101
7185 MINIMUM SPECIFIC ENERGY
[illegible] CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.0   10070.0  TYPE=      1  TARGET=      150.000
     4.101      2.16   1257.96   1257.96   1257.84   1258.67       .71      5.00       .05   1256.50
    1261.0     170.2     943.3     147.5      47.5     125.0      41.6     249.5      65.3   1256.50
       .73      3.58      7.55      3.54      .040      .030      .050      .000   1255.80   9920.00
   .009722      495.      500.      500.         5        14         0       .00    150.00  10070.00


*SECNO 4.196
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9967.5   10058.1  TYPE=      1  TARGET=       90.620
     4.196      3.25   1263.05   1263.05   1263.02   1264.11      1.05      4.45       .10 100000.00
    1261.0        .0    1228.7      32.3        .0     147.3      18.0     251.6      66.7   1262.00
       .74       .00      8.34      1.79      .000      .030      .050      .000   1259.80   9967.46
   .008204      500.      500.      495.         2        14         0       .00     90.62  10058.08


*SECNO 4.289
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9949.6   10070.0  TYPE=      1  TARGET=      120.410

[illegible]
          UPSTREAM OF CAMELBACK ROAD EXTENDED

     4.289      2.91   1270.31   1270.31   1270.34   1271.14       .83      4.50       .02   1268.00
    1261.0     177.0     616.9     467.1      40.2      65.3     107.5     253.8      67.9   1268.00
       .76      4.41      9.44      4.35      .040      .030      .050      .000   1267.40   9950.06
   .010119      495.      495.      495.        12        15         0       .00    119.93  10070.00
```

*SECNO 4.375

[illegible] ENCROACHMENT STATIONS= 9992.1 10090.0 TYPE= 1 TARGET= 97.920

4.375	2.79	1274.49	.00	1274.33	1275.24	.75	4.09	.01	1272.00
1261.0	13.0	682.9	565.1	3.9	79.2	131.6	256.0	69.0	1272.00
.78	3.37	8.62	4.29	.040	.030	.050	.000	1271.70	9992.08
.008299	445.	450.	445.	3	0	0	.00	97.92	10090.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.469

3470 ENCROACHMENT STATIONS= 9984.5 10090.0 TYPE= 1 TARGET= 105.460

4.469	3.05	1278.15	.00	1278.18	1278.86	.71	3.61	.00	1276.00
1261.0	37.1	971.8	252.1	11.6	130.2	76.4	258.5	70.2	1276.00
.80	3.21	7.46	3.30	.040	.030	.050	.000	1275.10	9984.62
.006352	500.	500.	500.	4	0	0	.00	105.38	10090.00

[illegible]NO 4.563

3470 ENCROACHMENT STATIONS= 9973.2 10070.0 TYPE= 1 TARGET= 96.760

4.563	3.43	1281.53	1281.51	1281.57	1282.47	.94	3.54	.07	1280.00
1261.0	24.8	1119.8	116.4	8.9	136.8	37.9	260.8	71.3	1280.00
.82	2.80	8.18	3.07	.040	.030	.050	.000	1278.10	9973.47
.008132	500.	495.	495.	4	8	0	.00	96.53	10070.00

*SECNO 4.653

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

3470 ENCROACHMENT STATIONS= 9961.0 10070.0 TYPE= 1 TARGET= 109.050

4.653	3.98	1283.68	.00	1283.61	1283.99	.31	1.46	.06	1282.00
1261.0	4.5	1209.8	46.6	3.6	264.7	35.6	263.4	72.5	1282.00
.85	1.28	4.57	1.31	.040	.030	.050	.000	1279.70	9960.95
.001595	475.	475.	475.	3	0	0	.00	109.05	10070.00

*SECNO 4.725

[illegible] HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9970.1 10070.0 TYPE= 1 TARGET= 99.860

1

Q @ X1= 4.725 EQUALS Q @ CP22A
Q = 1108 CFS

CONFLUENCE OF CATERPILLAR DIKE WASH

4.725	2.29	1285.29	1285.29	1285.30	1286.13	.84	1.15	.16	100000.00
1108.0	.0	1045.7	62.3	.0	138.5	24.8	265.4	73.4	1284.00
.87	.00	7.55	2.51	.000	.030	.050	.000	1283.00	9970.20
.009377	380.	380.	380.	20	11	0	.00	99.80	10070.00

1

THIS RUN EXECUTED 20MAY92 13:54:40

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

TUTHILL DIKE WASH - WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	4057.00	1039.06	9945.48	9940.00	10075.00	10068.73	.00	123.25	6.06	1033.00	43.68	8.22
	.000	4057.00	1039.06	9945.48	9940.00	10075.00	10068.73	.00	123.25	6.06	1033.00	43.67	8.22
	.075	4057.00	1040.84	9888.88	9960.00	10070.00	10073.38	1.79	184.50	5.84	1035.00	27.90	6.93
	.075	4057.00	1040.84	9910.00	9960.00	10070.00	10073.36	1.78	163.36	5.84	1035.00	28.33	6.98
*	.186	4057.00	1043.71	9751.25	9970.00	10050.00	10068.55	2.87	294.60	5.21	1038.50	45.59	9.35
*	.186	4057.00	1043.25	9953.74	9970.00	10050.00	10066.26	2.41	112.53	4.75	1038.50	75.16	11.21
*	.314	4057.00	1047.99	9353.42	9950.00	10080.00	10079.95	4.28	535.64	5.49	1042.50	39.51	7.50
	.314	4057.00	1048.06	9945.41	9950.00	10080.00	10080.00	4.80	134.59	5.56	1042.50	45.66	8.16
*	.415	4057.00	1051.93	9545.90	9940.00	10060.00	10270.29	3.94	724.39	4.73	1047.20	47.17	7.29
*	.415	4057.00	1051.88	9940.00	9940.00	10060.00	10175.00	3.83	235.00	4.68	1047.20	77.95	9.18
	.540	4057.00	1057.55	9911.75	9930.00	10040.00	10311.47	5.62	399.72	4.55	1053.00	53.00	8.31
*	.540	4057.00	1057.46	9912.87	9930.00	10040.00	10110.00	5.57	197.13	4.46	1053.00	72.54	9.54
*	.634	4057.00	1061.80	9950.98	9970.00	10040.00	10162.52	4.25	211.54	5.00	1056.80	59.83	10.29
*	.634	4057.00	1061.79	9951.07	9970.00	10040.00	10105.00	4.33	153.93	4.99	1056.80	64.21	10.63

*	.729	4057.00	1065.30	9953.52	9960.00	10085.00	10221.80	3.49	268.28	4.60	1060.70	70.72	9.25
	.729	4057.00	1065.34	9953.52	9960.00	10085.00	10085.00	3.55	131.48	4.64	1060.70	75.84	9.60
*	.823	4057.00	1070.92	9952.71	9955.00	10030.00	10045.27	5.62	92.56	6.42	1064.50	76.65	11.80
	.823	4057.00	1070.94	9952.71	9955.00	10030.00	10045.27	5.60	92.56	6.44	1064.50	75.23	11.73
	.917	4057.00	1074.73	9956.30	9965.00	10040.00	10073.28	3.82	116.97	5.43	1069.30	68.23	11.34
	.917	4057.00	1074.71	9956.49	9965.00	10040.00	10050.00	3.77	93.51	5.41	1069.30	70.36	11.46
*	1.012	4057.00	1080.73	9936.36	9940.00	10020.00	10028.56	5.99	92.19	5.03	1075.70	80.31	11.66
*	1.012	4057.00	1080.75	9936.36	9940.00	10020.00	10028.56	6.04	92.20	5.05	1075.70	79.12	11.61

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	1.067	4061.00	1085.01	9977.70	9977.70	10022.00	10022.00	4.28	44.30	6.37	1078.64	20.40	14.40
*	1.067	4061.00	1085.01	9977.70	9977.70	10022.00	10022.00	4.26	44.30	6.37	1078.64	24.23	14.40
*	1.110	4061.00	1093.14	9950.00	9977.70	10022.00	10022.00	8.13	72.00	12.04	1081.10	1.66	6.29
*	1.110	4061.00	1093.16	9950.00	9977.70	10022.00	10022.00	8.15	72.00	12.06	1081.10	2.14	6.08
*	1.118	5503.00	1093.65	9920.00	9920.00	10030.00	10100.00	.51	180.00	12.15	1081.50	.61	3.02
*	1.118	5503.00	1093.64	9920.00	9920.00	10030.00	10100.00	.48	180.00	12.14	1081.50	.61	3.02
*	1.152	5503.00	1093.62	9930.00	9930.00	10045.00	10150.00	-.03	220.00	11.62	1082.00	5.06	4.27
*	1.152	5503.00	1093.61	9930.00	9930.00	10045.00	10150.00	-.03	220.00	11.61	1082.00	5.08	4.28
	1.198	5503.00	1093.60	9936.00	9945.00	10030.00	10200.00	-.02	264.00	8.30	1085.30	15.17	6.77
*	1.198	5503.00	1093.59	9936.02	9945.00	10030.00	10200.00	-.02	263.98	8.29	1085.30	15.26	6.79
*	1.260	6601.00	1097.03	9962.42	9975.00	10045.00	10200.00	3.43	237.58	5.53	1091.50	72.04	11.82
*	1.260	6601.00	1097.03	9962.42	9975.00	10045.00	10200.00	3.44	237.58	5.53	1091.50	71.96	11.81
*	1.287	6601.00	1099.25	9973.76	9980.00	10145.00	10166.83	2.22	193.07	5.25	1094.00	82.25	10.73
*	1.287	6601.00	1099.21	9973.96	9980.00	10145.00	10145.00	2.18	171.04	5.21	1094.00	86.45	10.88
*	1.313	6601.00	1100.98	9920.14	9950.00	10025.00	10079.76	1.73	159.62	5.98	1095.00	64.05	12.31
*	1.313	6601.00	1100.98	9920.14	9950.00	10025.00	10079.77	1.76	159.63	5.98	1095.00	64.01	12.31
*	1.322	6601.00	1103.29	9877.18	9930.00	10110.00	10110.00	2.31	232.82	8.29	1095.00	5.11	4.29
*	1.322	6601.00	1103.29	9877.18	9930.00	10110.00	10110.00	2.31	232.82	8.29	1095.00	5.11	4.29
*	1.362	6225.00	1103.50	9878.68	9950.00	10045.00	10100.00	.22	221.32	21.50	1082.00	.70	2.83
*	1.362	6225.00	1103.50	9878.68	9950.00	10045.00	10100.00	.22	221.32	21.50	1082.00	.70	2.83
*	1.422	6225.00	1106.40	9948.99	9945.00	10045.00	10041.01	2.90	92.02	7.90	1098.50	79.69	13.06
*	1.422	6225.00	1106.40	9949.00	9945.00	10045.00	10041.00	2.90	92.01	7.90	1098.50	79.81	13.06
*	1.518	6225.00	1113.73	9969.41	9975.00	10055.00	10237.96	7.32	223.97	6.83	1106.90	63.46	11.82
*	1.518	6225.00	1114.26	9969.40	9975.00	10055.00	10069.94	7.86	100.54	7.36	1106.90	70.69	13.31
*	1.614	6225.00	1123.45	9967.73	9975.00	10055.00	10150.65	9.73	182.92	9.55	1113.90	56.71	12.29
	1.614	6225.00	1123.35	9968.26	9975.00	10055.00	10110.00	9.09	141.74	9.45	1113.90	60.91	12.59
*	1.710	6168.00	1130.93	9967.67	9965.00	10070.00	10056.63	7.48	88.96	10.93	1120.00	79.58	13.09
*	1.710	6168.00	1130.94	9967.64	9965.00	10070.00	10056.80	7.60	89.16	10.94	1120.00	79.14	13.05
*	1.805	6168.00	1138.10	9969.75	9970.00	10050.00	10053.79	7.17	84.04	10.50	1127.60	80.51	13.70
*	1.805	6168.00	1138.10	9969.75	9970.00	10050.00	10050.00	7.15	80.25	10.50	1127.60	80.74	13.71

*	1.898	6168.00	1145.29	9972.07	9980.00	10020.00	10137.22	7.19	165.15	7.99	1137.30	62.27	14.15
*	1.898	6168.00	1145.20	9972.21	9980.00	10020.00	10070.00	7.10	97.79	7.90	1137.30	75.02	15.39
	1.994	6168.00	1152.38	9969.06	9975.00	10050.00	10092.81	7.09	123.75	8.88	1143.50	62.41	12.91
	1.994	6168.00	1152.40	9969.06	9975.00	10050.00	10092.81	7.20	123.75	8.90	1143.50	61.60	12.86

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.088	6168.00	1159.36	9971.61	9975.00	10055.00	10100.18	6.98	128.57	9.26	1150.10	67.93	12.83
*	2.088	6168.00	1159.28	9971.81	9975.00	10055.00	10055.00	6.88	83.19	9.18	1150.10	78.22	13.60
*	2.170	6110.00	1167.39	9964.34	9940.00	10135.00	10128.94	8.04	164.60	4.79	1162.60	89.04	10.67
*	2.170	6110.00	1167.39	9964.35	9940.00	10135.00	10128.89	8.11	164.54	4.79	1162.60	89.45	10.69
*	2.279	6110.00	1176.61	9945.88	9940.00	10045.00	10039.91	9.21	94.03	7.31	1169.30	80.64	12.86
*	2.279	6110.00	1176.60	9945.93	9940.00	10045.00	10039.90	9.21	93.96	7.30	1169.30	81.03	12.88
*	2.373	6110.00	1180.51	9950.04	9960.00	10015.00	10168.84	3.91	218.80	8.51	1172.00	37.63	10.86
	2.373	6110.00	1180.37	9952.76	9960.00	10015.00	10080.00	3.77	127.24	8.37	1172.00	47.66	12.07
*	2.468	6110.00	1184.94	9941.03	9975.00	10015.00	10120.81	4.43	179.79	7.64	1177.30	63.04	13.95
*	2.468	6110.00	1184.87	9941.55	9975.00	10015.00	10080.00	4.49	138.45	7.57	1177.30	66.70	14.24
*	2.563	6110.00	1191.10	9944.81	9980.00	10025.00	10288.70	6.15	343.89	8.80	1182.30	35.64	11.75
*	2.563	6110.00	1190.92	9948.00	9980.00	10025.00	10100.00	6.06	152.00	8.62	1182.30	48.55	13.52
*	2.659	6110.00	1193.87	9968.55	9975.00	10025.00	10158.41	2.78	189.86	8.07	1185.80	53.84	12.93
*	2.659	6110.00	1193.80	9968.67	9975.00	10025.00	10100.00	2.87	131.32	8.00	1185.80	62.18	13.79
*	2.753	3011.00	1197.53	9917.67	9975.00	10070.00	10162.31	3.66	240.61	7.23	1190.30	43.86	7.88
	2.753	3011.00	1197.96	9917.67	9975.00	10070.00	10110.00	4.17	192.33	7.66	1190.30	28.94	6.88
*	2.848	3011.00	1200.23	9964.14	9980.00	10025.00	10080.27	2.70	116.13	7.03	1193.20	58.81	11.09
*	2.848	3011.00	1200.20	9964.27	9980.00	10025.00	10079.49	2.24	115.22	7.00	1193.20	60.48	11.19
	2.943	3011.00	1203.43	9960.50	9945.00	10020.00	10067.89	3.19	107.39	7.63	1195.80	49.11	9.37
	2.943	3011.00	1203.46	9960.50	9945.00	10020.00	10067.90	3.26	107.40	7.66	1195.80	47.97	9.30
*	3.057	3011.00	1205.87	9975.33	9985.00	10020.00	10143.80	2.44	168.47	6.47	1199.40	52.35	11.18
	3.057	3011.00	1205.79	9975.51	9985.00	10020.00	10075.00	2.34	99.49	6.39	1199.40	58.13	11.68
	3.148	3011.00	1208.87	9976.87	9975.00	10030.00	10203.52	3.00	226.65	8.87	1200.00	30.81	8.14
	3.148	3011.00	1209.03	9977.70	9975.00	10030.00	10100.00	3.23	122.30	9.03	1200.00	31.77	8.45
*	3.250	3011.00	1213.72	9939.93	9970.00	10120.00	10184.43	4.85	244.49	2.82	1210.90	91.73	8.19
*	3.250	3011.00	1213.71	9939.99	9970.00	10120.00	10150.00	4.69	210.01	2.81	1210.90	92.78	8.23
	3.344	1414.00	1216.64	9978.40	9985.00	10115.00	10200.27	2.92	221.88	3.84	1212.80	14.09	3.61
	3.344	1414.00	1216.65	9978.43	9985.00	10115.00	10150.00	2.94	171.57	3.85	1212.80	14.07	3.62
	3.439	1414.00	1217.11	9974.82	9980.00	10150.00	10216.65	.47	241.84	3.61	1213.50	4.18	2.27
	3.439	1414.00	1217.15	9974.83	9980.00	10150.00	10150.00	.49	175.17	3.65	1213.50	4.84	2.43
*	3.535	1414.00	1217.25	9976.87	9980.00	10080.00	10089.39	.15	112.52	2.45	1214.80	106.74	7.64
*	3.535	1414.00	1217.26	9976.87	9980.00	10080.00	10089.39	.11	112.52	2.46	1214.80	105.15	7.60
*	3.631	1414.00	1222.23	9976.66	9980.00	10025.00	10031.71	4.98	55.05	4.03	1218.20	86.40	9.83

*	3.631	1414.00	1222.23	9976.66	9980.00	10025.00	10031.70	4.97	55.04	4.03	1218.20	85.89	9.81

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	3.724	1414.00	1230.42	9975.81	9980.00	10030.00	10169.19	8.19	193.38	3.82	1226.60	101.83	8.14
*	3.724	1414.00	1231.21	9975.82	9980.00	10030.00	10070.00	8.97	94.18	4.61	1226.60	76.84	8.74
*	3.818	1414.00	1236.20	9981.34	9985.00	10030.00	10236.35	5.78	255.01	3.90	1232.30	68.55	7.62
*	3.818	1414.00	1236.28	9981.34	9985.00	10030.00	10070.00	5.07	88.66	3.98	1232.30	98.32	9.33
*	3.912	1414.00	1243.08	9972.29	9980.00	10015.00	10071.64	6.89	99.34	3.98	1239.10	67.25	9.41
*	3.912	1414.00	1243.11	9972.29	9980.00	10015.00	10070.00	6.83	97.71	4.01	1239.10	64.70	9.29
*	4.006	1261.00	1249.66	9980.86	9980.00	10045.00	10041.56	6.57	60.70	3.66	1246.00	102.22	8.79
*	4.006	1261.00	1249.65	9980.88	9980.00	10045.00	10041.50	6.54	60.63	3.65	1246.00	102.92	8.82
*	4.101	1261.00	1257.84	9920.00	9975.00	10040.00	10135.33	8.18	215.32	2.04	1255.80	95.74	7.18
*	4.101	1261.00	1257.96	9920.00	9975.00	10040.00	10070.00	8.31	150.00	2.16	1255.80	97.22	7.55
*	4.196	1261.00	1263.02	9967.46	9965.00	10025.00	10058.08	5.18	90.62	3.22	1259.80	86.23	8.48
*	4.196	1261.00	1263.05	9967.46	9965.00	10025.00	10058.08	5.10	90.62	3.25	1259.80	82.04	8.34
*	4.289	1261.00	1270.34	9949.59	9985.00	10010.00	10138.71	7.32	189.12	2.94	1267.40	84.90	8.72
*	4.289	1261.00	1270.31	9950.06	9985.00	10010.00	10070.00	7.26	119.93	2.91	1267.40	101.19	9.44
	4.375	1261.00	1274.33	9992.08	9995.00	10025.00	10117.49	3.99	125.41	2.63	1271.70	99.41	9.05
	4.375	1261.00	1274.49	9992.08	9995.00	10025.00	10090.00	4.17	97.92	2.79	1271.70	82.99	8.62
	4.469	1261.00	1278.18	9984.54	9995.00	10045.00	10159.13	3.85	174.58	3.08	1275.10	54.39	6.96
	4.469	1261.00	1278.15	9984.62	9995.00	10045.00	10090.00	3.67	105.38	3.05	1275.10	63.52	7.46
*	4.563	1261.00	1281.57	9973.24	9985.00	10040.00	10126.25	3.39	153.01	3.47	1278.10	73.88	7.86
	4.563	1261.00	1281.53	9973.47	9985.00	10040.00	10070.00	3.38	96.53	3.43	1278.10	81.32	8.18
*	4.653	1261.00	1283.61	9960.95	9965.00	10040.00	10088.64	2.05	127.69	3.91	1279.70	17.11	4.67
*	4.653	1261.00	1283.68	9960.95	9965.00	10040.00	10070.00	2.15	109.05	3.98	1279.70	15.95	4.57
*	4.725	1108.00	1285.30	9970.14	9965.00	10040.00	10082.30	1.69	112.17	2.30	1283.00	92.27	7.52
*	4.725	1108.00	1285.29	9970.20	9965.00	10040.00	10070.00	1.61	99.80	2.29	1283.00	93.77	7.55

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TUTHILL DIKE WASH - WASH

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
.000	1039.06	-.94	1040.11	123.25	.00	4057.00	.00	.00	.00	9940.00	10075.00	.00
.000	1039.06	.00	1040.11	123.25	.00	4057.00	.00	123.25	9945.48	9940.00	10075.00	10068.73
.075	1040.84	.00	1041.52	184.50	758.82	3296.64	1.55	.00	.00	9960.00	10070.00	.00
.075	1040.84	-.01	1041.53	163.36	740.68	3314.79	1.53	163.38	9910.00	9960.00	10070.00	10073.38
* .186	1043.71	.00	1044.90	294.60	428.50	3499.86	128.64	.00	.00	9970.00	10050.00	.00

*	.186	1043.25	-.46	1045.10	112.53	155.07	3785.63	116.30	118.55	9950.00	9970.00	10050.00	10068.55
*	.314	1047.99	.00	1048.79	535.64	391.03	3665.97	.00	.00	.00	9950.00	10080.00	.00
	.314	1048.06	.07	1049.09	134.59	.04	4056.96	.00	155.00	9925.00	9950.00	10080.00	10080.00
*	.415	1051.93	.00	1052.53	724.39	670.95	2744.45	641.59	.00	.00	9940.00	10060.00	.00
*	.415	1051.88	-.05	1053.02	235.00	.00	3407.42	649.58	235.00	9940.00	9940.00	10060.00	10175.00
*	.540	1057.55	.00	1058.43	399.72	42.96	3203.28	810.75	.00	.00	9930.00	10040.00	.00
*	.540	1057.46	-.09	1058.73	197.13	42.49	3580.08	434.43	198.25	9911.75	9930.00	10040.00	10110.00
*	.634	1061.80	.00	1063.16	211.54	210.06	3172.71	674.23	.00	.00	9970.00	10040.00	.00
*	.634	1061.79	-.02	1063.28	153.93	214.97	3265.15	576.88	154.02	9950.98	9970.00	10040.00	10105.00
*	.729	1065.30	.00	1066.56	268.28	12.93	3836.70	207.37	.00	.00	9960.00	10085.00	.00
	.729	1065.34	.04	1066.77	131.48	15.03	4041.97	.00	131.48	9953.52	9960.00	10085.00	10085.00
*	.823	1070.92	.00	1073.07	92.56	2.57	4040.92	13.51	.00	.00	9955.00	10030.00	.00
*	.823	1070.94	.02	1073.07	92.56	2.77	4039.64	14.59	92.56	9952.71	9955.00	10030.00	10045.27
	.917	1074.73	.00	1076.70	116.97	51.83	3985.72	19.45	.00	.00	9965.00	10040.00	.00
	.917	1074.71	-.03	1076.72	93.51	50.50	3993.93	12.57	93.70	9956.30	9965.00	10040.00	10050.00
*	1.012	1080.73	.00	1082.83	92.19	2.95	4048.78	5.27	.00	.00	9940.00	10020.00	.00
*	1.012	1080.75	.02	1082.83	92.20	3.18	4048.14	5.68	92.20	9936.36	9940.00	10020.00	10028.56
*	1.067	1085.01	.00	1088.23	44.30	.00	4061.00	.00	.00	.00	9977.70	10022.00	.00
*	1.067	1085.01	.00	1088.23	44.30	.00	4061.00	.00	44.30	9977.70	9977.70	10022.00	10022.00
*	1.110	1093.14	.00	1093.68	72.00	708.59	3352.41	.00	.00	.00	9977.70	10022.00	.00
	1.110	1093.16	.03	1093.68	72.00	809.08	3251.92	.00	72.00	9950.00	9977.70	10022.00	10022.00
*	1.118	1093.65	.00	1093.81	180.00	.00	2898.01	2604.99	180.00	9920.00	9920.00	10030.00	10100.00
*	1.118	1093.64	-.01	1093.80	180.00	.00	2897.52	2605.48	180.00	9920.00	9920.00	10030.00	10100.00
*	1.152	1093.62	.00	1093.85	220.00	.00	3764.59	1738.41	220.00	9930.00	9930.00	10045.00	10150.00
*	1.152	1093.61	-.01	1093.84	220.00	.00	3765.19	1737.81	220.00	9930.00	9930.00	10045.00	10150.00
*	1.198	1093.60	.00	1094.14	264.00	50.19	3827.44	1625.36	275.00	9925.00	9945.00	10030.00	10200.00
*	1.198	1093.59	-.01	1094.13	263.98	50.02	3830.34	1622.65	275.00	9925.00	9945.00	10030.00	10200.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.260	1097.03	.00	1098.55	237.58	138.58	3925.92	2536.50	255.00	9945.00	9975.00	10045.00	10200.00
*	1.260	1097.03	.00	1098.55	237.58	138.65	3925.39	2536.96	255.00	9945.00	9975.00	10045.00	10200.00
*	1.287	1099.25	.00	1101.02	193.07	12.60	6554.93	33.47	.00	.00	9980.00	10145.00	.00
*	1.287	1099.21	-.03	1101.05	171.04	12.06	6588.94	.00	171.04	9973.96	9980.00	10145.00	10145.00
*	1.313	1100.98	.00	1102.96	159.62	610.87	5056.85	933.28	159.86	9920.14	9950.00	10025.00	10080.00
*	1.313	1100.98	.00	1102.96	159.63	610.99	5056.60	933.41	159.86	9920.14	9950.00	10025.00	10080.00
	1.322	1103.29	.00	1103.56	232.82	594.12	6006.88	.00	234.10	9875.90	9930.00	10110.00	10110.00
*	1.322	1103.29	.00	1103.56	232.82	594.10	6006.90	.00	234.10	9875.90	9930.00	10110.00	10110.00
*	1.362	1103.50	.00	1103.61	221.32	550.32	4859.70	814.98	222.76	9877.24	9950.00	10045.00	10100.00
*	1.362	1103.50	.00	1103.61	221.32	550.31	4859.72	814.97	222.76	9877.24	9950.00	10045.00	10100.00

*	1.422	1106.40	.00	1109.05	92.02	.00	6225.00	.00	.00	.00	9945.00	10045.00	.00
*	1.422	1106.40	.00	1109.05	92.01	.00	6225.00	.00	96.01	9948.99	9945.00	10045.00	10045.00
*	1.518	1113.73	.00	1115.52	223.97	41.35	4942.83	1240.82	.00	.00	9975.00	10055.00	.00
	1.518	1114.26	.53	1116.97	100.54	62.90	6125.60	36.50	120.60	9969.40	9975.00	10055.00	10090.00
*	1.614	1123.45	.00	1125.74	182.92	11.82	6049.90	163.28	.00	.00	9975.00	10055.00	.00
*	1.614	1123.35	-.11	1125.76	141.74	9.99	6088.93	126.09	142.28	9967.72	9975.00	10055.00	10110.00
*	1.710	1130.93	.00	1133.59	88.96	.00	6168.00	.00	.00	.00	9965.00	10070.00	.00
*	1.710	1130.94	.01	1133.59	89.16	.00	6168.00	.00	105.00	9965.00	9965.00	10070.00	10070.00
*	1.805	1138.10	.00	1141.02	84.04	.00	6167.93	.07	.00	.00	9970.00	10050.00	.00
*	1.805	1138.10	.00	1141.02	80.25	.00	6168.00	.00	80.25	9969.75	9970.00	10050.00	10050.00
*	1.898	1145.29	.00	1147.47	165.15	104.04	3941.38	2122.57	.00	.00	9980.00	10020.00	.00
*	1.898	1145.20	-.09	1147.98	97.79	108.94	4230.92	1828.14	97.93	9972.07	9980.00	10020.00	10070.00
*	1.994	1152.38	.00	1154.89	123.75	22.09	5985.94	159.97	.00	.00	9975.00	10050.00	.00
*	1.994	1152.40	.02	1154.89	123.75	22.57	5982.18	163.25	123.75	9969.06	9975.00	10050.00	10092.81
*	2.088	1159.36	.00	1161.81	128.57	5.18	5894.26	268.56	.00	.00	9975.00	10055.00	.00
*	2.088	1159.28	-.08	1162.15	83.19	4.71	6163.29	.00	83.55	9971.45	9975.00	10055.00	10055.00
*	2.170	1167.39	.00	1169.16	164.60	.00	6110.00	.00	.00	.00	9940.00	10135.00	.00
*	2.170	1167.39	-.01	1169.16	164.54	.00	6110.00	.00	164.59	9964.34	9940.00	10135.00	10128.93
*	2.279	1176.61	.00	1179.18	94.03	.00	6110.00	.00	.00	.00	9940.00	10045.00	.00
*	2.279	1176.60	-.01	1179.18	93.96	.00	6110.00	.00	94.03	9945.88	9940.00	10045.00	10039.91
	2.373	1180.51	.00	1181.92	218.80	2.34	4486.02	1621.63	.00	.00	9960.00	10015.00	.00
	2.373	1180.37	-.14	1182.27	127.24	1.13	4892.54	1216.33	129.96	9950.04	9960.00	10015.00	10080.00
*	2.468	1184.94	.00	1187.04	179.79	449.44	3786.99	1873.57	.00	.00	9975.00	10015.00	.00
*	2.468	1184.87	-.08	1187.08	138.45	443.59	3822.84	1843.57	138.97	9941.03	9975.00	10015.00	10080.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.563	1191.10	.00	1192.63	343.89	348.43	4202.68	1558.89	.00	.00	9980.00	10025.00	.00
*	2.563	1190.92	-.17	1193.20	152.00	372.72	4728.33	1008.95	155.19	9944.81	9980.00	10025.00	10100.00
*	2.659	1193.87	.00	1195.83	189.86	47.76	4397.96	1664.27	.00	.00	9975.00	10025.00	.00
*	2.659	1193.80	-.08	1196.15	131.32	48.64	4637.09	1424.27	131.45	9968.55	9975.00	10025.00	10100.00
*	2.753	1197.53	.00	1198.44	240.61	102.69	2842.00	66.30	.00	.00	9975.00	10070.00	.00
	2.753	1197.96	.43	1198.64	192.33	167.09	2762.56	81.34	192.33	9917.67	9975.00	10070.00	10110.00
*	2.848	1200.23	.00	1201.89	116.13	60.41	2561.68	388.91	.00	.00	9980.00	10025.00	.00
*	2.848	1200.20	-.03	1201.89	115.22	58.35	2568.53	384.12	116.00	9964.00	9980.00	10025.00	10080.00
	2.943	1203.43	.00	1204.62	107.39	.00	2530.01	480.99	.00	.00	9945.00	10020.00	.00
	2.943	1203.46	.03	1204.63	107.40	.00	2527.37	483.63	107.40	9960.50	9945.00	10020.00	10067.90
*	3.057	1205.87	.00	1207.34	168.47	74.34	2197.03	739.63	.00	.00	9985.00	10020.00	.00
	3.057	1205.79	-.08	1207.47	99.49	74.43	2264.87	671.69	100.00	9975.00	9985.00	10020.00	10075.00
	3.148	1208.87	.00	1209.68	226.65	.00	2315.50	695.50	.00	.00	9975.00	10030.00	.00
	3.148	1209.03	.15	1209.96	122.30	.00	2465.91	545.09	122.30	9977.70	9975.00	10030.00	10100.00

*	3.250	1213.72	.00	1214.69	244.49	82.95	2785.74	142.31	.00	.00	9970.00	10120.00	.00
*	3.250	1213.71	.00	1214.70	210.01	83.01	2795.18	132.80	210.38	9939.62	9970.00	10120.00	10150.00
	3.344	1216.64	.00	1216.82	221.88	13.93	1266.85	133.22	.00	.00	9985.00	10115.00	.00
	3.344	1216.65	.02	1216.84	171.57	14.29	1282.57	117.14	171.57	9978.43	9985.00	10115.00	10150.00
*	3.439	1217.11	.00	1217.18	241.84	7.42	1297.41	109.18	.00	.00	9980.00	10150.00	.00
*	3.439	1217.15	.04	1217.24	175.17	8.28	1405.72	.00	175.17	9974.83	9980.00	10150.00	10150.00
*	3.535	1217.25	.00	1218.15	112.52	5.24	1395.62	13.14	.00	.00	9980.00	10080.00	.00
*	3.535	1217.26	.01	1218.15	112.52	5.30	1395.38	13.31	112.52	9976.87	9980.00	10080.00	10089.39
*	3.631	1222.23	.00	1223.70	55.05	12.22	1383.14	18.64	.00	.00	9980.00	10025.00	.00
*	3.631	1222.23	.01	1223.70	55.04	12.27	1383.00	18.72	55.04	9976.66	9980.00	10025.00	10031.70
*	3.724	1230.42	.00	1231.14	193.38	1.16	853.94	558.90	.00	.00	9980.00	10030.00	.00
*	3.724	1231.21	.79	1232.28	94.18	12.06	1262.13	139.81	94.18	9975.82	9980.00	10030.00	10070.00
*	3.818	1236.20	.00	1236.79	255.01	11.87	872.57	529.56	.00	.00	9985.00	10030.00	.00
*	3.818	1236.28	.09	1237.39	88.66	15.90	1104.35	293.75	88.66	9981.34	9985.00	10030.00	10070.00
*	3.912	1243.08	.00	1244.24	99.34	45.93	1163.59	204.48	.00	.00	9980.00	10015.00	.00
*	3.912	1243.11	.03	1244.24	97.71	46.48	1158.50	209.02	97.71	9972.29	9980.00	10015.00	10070.00
*	4.006	1249.66	.00	1250.86	60.70	.00	1261.00	.00	.00	.00	9980.00	10045.00	.00
*	4.006	1249.65	-.01	1250.86	60.63	.00	1261.00	.00	60.70	9980.86	9980.00	10045.00	10041.56
*	4.101	1257.84	.00	1258.43	215.32	135.94	842.89	282.17	.00	.00	9975.00	10040.00	.00
*	4.101	1257.96	.12	1258.67	150.00	170.23	943.26	147.51	150.00	9920.00	9975.00	10040.00	10070.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	4.196	1263.02	.00	1264.11	90.62	.00	1231.39	29.60	.00	.00	9965.00	10025.00	.00
*	4.196	1263.05	.04	1264.11	90.62	.00	1228.73	32.27	90.62	9967.46	9965.00	10025.00	10058.08
*	4.289	1270.34	.00	1270.99	189.12	168.54	575.92	516.54	.00	.00	9985.00	10010.00	.00
*	4.289	1270.31	-.03	1271.14	119.93	176.99	616.87	467.14	120.41	9949.59	9985.00	10010.00	10070.00
	4.375	1274.33	.00	1275.14	125.41	11.84	674.38	574.78	.00	.00	9995.00	10025.00	.00
	4.375	1274.49	.15	1275.24	97.92	13.00	682.86	565.14	97.92	9992.08	9995.00	10025.00	10090.00
	4.469	1278.18	.00	1278.76	174.58	35.76	915.71	309.53	.00	.00	9995.00	10045.00	.00
	4.469	1278.15	-.03	1278.86	105.38	37.11	971.75	252.14	105.46	9984.54	9995.00	10045.00	10090.00
*	4.563	1281.57	.00	1282.41	153.01	24.89	1089.25	146.86	.00	.00	9985.00	10040.00	.00
	4.563	1281.53	-.03	1282.47	96.53	24.78	1119.83	116.38	96.76	9973.24	9985.00	10040.00	10070.00
*	4.653	1283.61	.00	1283.94	127.69	4.18	1214.70	42.13	.00	.00	9965.00	10040.00	.00
*	4.653	1283.68	.07	1283.99	109.05	4.55	1209.83	46.63	109.05	9960.95	9965.00	10040.00	10070.00
	4.725	1285.30	.00	1286.14	112.17	.00	1048.99	59.01	.00	.00	9965.00	10040.00	.00
	4.725	1285.29	-.01	1286.13	99.80	.00	1045.74	62.26	99.86	9970.14	9965.00	10040.00	10070.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=      .186  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .186  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .186  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .186  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .314  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .314  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .415  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .415  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .415  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .415  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .540  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .540  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .540  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .540  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .634  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .634  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .634  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .634  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .634  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .729  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .729  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .823  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .823  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .823  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .823  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .823  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.012  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.012  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.012  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.012  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.012  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.067  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.067  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.067  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.067  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.067  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.067  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     1.110  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.110  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.118  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.118  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     1.152  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      1.152  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.198  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.198  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.260  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.260  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.260  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.260  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.260  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.260  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.287  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.287  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.287  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.287  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.287  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.287  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.313  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.313  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.313  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.313  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      1.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.322  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.362  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.362  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.422  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.422  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.422  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.422  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.422  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.422  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.518  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.518  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.518  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.518  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.518  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.518  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.614  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.614  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.614  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.614  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.614  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.614  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.710  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      1.710  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.710  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.710  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.710  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.710  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      1.805  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.805  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.805  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.805  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.805  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.805  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.898  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.898  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.898  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.898  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.898  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.898  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.994  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.994  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.994  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.994  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.994  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.994  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.088  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.088  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.088  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.088  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.088  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.088  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.170  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.170  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.170  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.170  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.170  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.170  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.279  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.279  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.279  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.279  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.279  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.279  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      2.373  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      2.468  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.468  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.468  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.468  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      2.468  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.468  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.563  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.563  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.563  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.563  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.563  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.563  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      2.659  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.659  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.659  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.659  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.659  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      2.753  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      2.848  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.848  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.848  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.848  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.848  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      3.057  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.057  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.250  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.250  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.250  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.250  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.250  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.250  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      3.439  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      3.439  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      3.535  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.535  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.535  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.535  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.535  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.631  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.631  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.631  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.631  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.724  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.724  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.724  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.724  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.724  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      3.818  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.818  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.818  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.818  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.912  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.912  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.912  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      3.912  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.912  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      4.006  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.006  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.006  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      4.006  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.006  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.006  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      4.101  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.101  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.101  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.101  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      4.196  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.196  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.196  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.196  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      4.289  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.289  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.289  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.289  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      4.563  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.563  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      4.653  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      4.653  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      4.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      4.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, TUTHILL DIKE WASH - WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	123.	494.	8.2	1039.1	1039.1	.0
.075	163.	618.	6.6	1040.8	1040.8	.0
.186	113.	391.	10.4	1043.2	1043.7	-.5
.314	135.	498.	8.2	1048.1	1048.0	.1
.415	235.	531.	7.6	1051.9	1051.9	.0
.540	197.	493.	8.2	1057.5	1057.6	-.1
.634	154.	467.	8.7	1061.8	1061.8	.0
.729	131.	425.	9.5	1065.3	1065.3	.0
.823	93.	353.	11.5	1070.9	1070.9	.0
.917	94.	364.	11.1	1074.7	1074.7	.0
1.012	92.	353.	11.5	1080.7	1080.7	.0
1.067	44.	282.	14.4	1085.0	1085.0	.0
1.110	72.	717.	5.7	1093.1	1093.1	.0
1.118	180.	1745.	3.2	1093.7	1093.7	.0
1.152	220.	1520.	3.6	1093.6	1093.6	.0
1.198	264.	1111.	5.0	1093.6	1093.6	.0

1.260	238.	773.	8.5	1097.0	1097.0	.0
1.287	171.	609.	10.8	1099.2	1099.2	.0
1.313	160.	631.	10.5	1101.0	1101.0	.0
1.322	233.	1598.	4.1	1103.3	1103.3	.0
1.362	221.	2633.	2.4	1103.5	1103.5	.0
1.422	92.	477.	13.1	1106.4	1106.4	.0
1.518	101.	487.	12.8	1114.2	1113.7	.5
1.614	142.	543.	11.5	1123.4	1123.5	-.1
1.710	89.	472.	13.1	1130.9	1130.9	.0
1.805	80.	450.	13.7	1138.1	1138.1	.0
1.898	98.	544.	11.3	1145.2	1145.3	-.1
1.994	124.	529.	11.7	1152.4	1152.4	.0
2.088	83.	455.	13.6	1159.3	1159.4	-.1
2.170	165.	572.	10.7	1167.4	1167.4	.0
2.279	94.	474.	12.9	1176.6	1176.6	.0
2.373	127.	639.	9.6	1180.4	1180.5	-.1
2.468	138.	625.	9.8	1184.8	1184.9	-.1
2.563	152.	635.	9.6	1190.9	1191.1	-.2
2.659	131.	610.	10.0	1193.8	1193.9	-.1
2.753	192.	520.	5.8	1197.9	1197.5	.4
2.848	115.	344.	8.7	1200.2	1200.2	.0
2.943	107.	385.	7.8	1203.4	1203.4	.0
3.057	99.	358.	8.4	1205.8	1205.9	-.1
3.148	122.	470.	6.4	1209.1	1208.9	.2
3.250	210.	405.	7.4	1213.7	1213.7	.0
3.344	172.	432.	3.3	1216.6	1216.6	.0

1

FLOODWAY DATA, TUTHILL DIKE WASH - WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.439	175.	586.	2.4	1217.1	1217.1	.0
3.535	113.	191.	7.4	1217.3	1217.3	.0
3.631	55.	151.	9.4	1222.2	1222.2	.0
3.724	94.	197.	7.2	1231.2	1230.4	.8
3.818	89.	193.	7.3	1236.3	1236.2	.1
3.912	98.	205.	6.9	1243.1	1243.1	.0
4.006	61.	143.	8.8	1249.7	1249.7	.0
4.101	150.	214.	5.9	1257.9	1257.8	.1
4.196	91.	165.	7.6	1263.0	1263.0	.0
4.289	120.	213.	5.9	1270.3	1270.3	.0
4.375	98.	215.	5.9	1274.5	1274.3	.2
4.469	105.	218.	5.8	1278.2	1278.2	.0
4.563	97.	184.	6.9	1281.6	1281.6	.0
4.653	109.	304.	4.1	1283.7	1283.6	.1
4.725	100.	163.	6.8	1285.3	1285.3	.0

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1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    20MAY92    TIME   13:55:05 *
*****************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
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X     X  XXXXXXX   XXXXX            XXXXX
X     X  X       X     X          X     X
X     X  X       X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X       X                X
X     X  X       X     X          X
X     X  XXXXXXX   XXXXX           XXXXXXX
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1

20MAY92 13:55:05 PAGE 1

THIS RUN EXECUTED 20MAY92 13:55:05

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*************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
*************************************
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5A.H2O
Latest version
w/ Floodway

T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODPLAIN RUN FILE: 5A.H2I
T3 BULLDOZER WASH - WASH "5A"- TRIBUTARY TO TUTHILL DIKE WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	0	1100.98	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	0	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	53	21	22	54	51	4	8
42	5	26	0	110	0	200			

NC	.04	.04	.035	.3	.5		
QT	2	6601	6601				
			9.1			9919.75	10080.50

STARTING WSEL FROM TUTHILL DIKE(WASH "5") HEC-2 RUN AT CROSS SECTION
1.313 = 1100.98 FEET.

CONFLUENCE WITH TUTHILL DIKE WASH

Q @ X1 = 0.000 TO X1 = 0.120 EQUALS Q AT CP42

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          Q = 6601 CFS

X1    0.000       11     9950    10025        0        0        0
      1106.3     9880     1106     9895     1104     9905     1100     9925     1096     9950
       1095    10000     1096    10025     1098    10050     1100    10070     1102    10090
GR   1102.2    10175

ET                          9.1                                                   9870.31  10485.89
          NEXT THREE UPSTREAM CORSS SECTIONS EXTEND THROUGH A DETENTION BASIN
          AND INDICATE PONDING.


X1    0.009        8     9930    10110      150      150       50
GR   1107.2     9850     1100     9900     1096     9930     1095    10000     1096    10110
GR    1100    10270     1103    10350   1103.7    10550
1
   20MAY92     13:55:05                                                                PAGE    2


ET                          9.1                                                    9535  10419.7
X1    0.062       12     9825    10110      575      100      275
GR    1110     9535     1100     9540     1090     9825     1080     9925     1072     9965
GR   1071.5    10000     1072    10030     1080    10090     1090    10110     1100    10190
GR    1103    10220     1104    10520

NC     .07      .07      .05       .1       .3
ET                          9.1                                                 9601.71    10200
X1    0.120       31     9935    10070      275      340      310
       1110     9570     1100     9620     1094     9650   1095.5     9665     1094     9675
     1098.3     9705     1094     9735     1100     9770     1100     9800     1097     9810
GR    1100     9820     1101     9845     1100     9870     1096     9880     1094     9915
GR    1090     9925     1080     9935     1076     9950     1076     9985   1077.5    10000
GR    1078    10005   1078.1    10015     1078    10030   1076.8    10045     1078    10055
GR    1080    10070     1090    10105     1096    10135     1100    10140     1102    10180
GR   1103.9    10200

QT       2     1250     1250
ET                          9.1                                                 9933.72  10125.31

          Q @ X1 = 0.0178 TO X1 = 0.602 EQUALS Q AT (R40 + 4/5 SUB42)
          Q = 427 + 4/5(1029) = 1250 CFS

X1    0.178       10     9970    10030      295      285      305
GR    1110     9570     1108     9690     1106     9760     1104     9925     1102     9970
GR   1101.2    10000     1102    10030   1103.2    10115     1104    10135   1104.5    10155

ET                          9.1                                                    9950  10173.41
X1    0.274       12     9950    10055      495      495      505
GR    1112     9590     1110     9710     1108     9810     1106     9845     1104     9855
GR   1103.5     9900   1103.8     9950   1103.2    10000     1104    10030   1104.4    10055
GR    1104    10090   1106.5    10180

ET                          9.1                                                    9840  10063.95
X1    0.367       13     9960    10035      485      490      495
       1114     9475     1112     9535     1110     9610     1108     9685     1107     9715
GR    1106     9745     1106     9810   1106.4     9900     1106     9960   1105.4    10000
GR    1106    10010     1107    10035     1109    10120

ET                          9.1                                                    9825  10081.35
X1    0.456       13     9880    10090      480      470      470
GR    1112     9570     1110     9655     1108     9680   1107.5     9760     1108     9820
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GR    1108.7      9880      1108      9935    1107.7      9975    1107.4     10000      1108     10015
GR      1108     10035      1110     10090    1110.6     10100

                              9.1                                                     9785.63     10175
        0.602         7      9940     10055       475      1000       770
GR    1114.6      9705      1114      9780      1113      9940    1112.6     10000    1112.9     10055
GR      1114     10550      1116     10825
1
   20MAY92      13:55:05                                                                          PAGE    3


QT        2       942       942
ET                          9.1                                                     9928.30     10290

          Q @ X1 = 0.705 TO X1 = 1.184 EQUALS AT (R40 + 1/2 SUB42)
          Q = 427 + 1/2(1029) = 942 CFS

          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

X1    0.705        10      9935     10045       500       350       545
GR    1122.2      9865      1122      9880      1120      9935    1118.8     10000     1120     10045
GR    1119.1     10170    1119.8     10290      1119     10450      1120     10580   1120.5     10590

ET                          9.1                                                     9975.49     10150

          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

X1    0.801         9      9980     10035       495       500       505
GR    1127.4      9960      1126      9980    1124.6     10000    1125.2     10035      1126     10110
GR    1126.3     10150      1126     10190    1124.3     10255    1126.3     10370

ET                          9.1                                                     9946.25   10069.17
X1    0.902         8      9945     10070       580       480       530
GR      1136      9800      1134      9875      1132      9945      1130      9960    1129.5     10000
GR      1130     10060      1132     10070      1134     10080

ET                          9.1                                                     9974.52   10142.78
X1    0.988        14      9980     10140       430       465       455
GR    1140.2      9725      1140      9735      1138      9785      1136      9820    1135.6      9865
GR      1136      9920    1137.5      9940      1136      9960      1134      9980    1133.8     10000
GR      1132     10055      1132     10135      1134     10140      1136     10150

ET                          9.1                                                     9985.17   10147.35
X1    1.085        12      9980     10150       535       510       515
GR      1146      9720      1144      9745      1142      9970      1140      9980    1135.9     10000
GR      1136     10005      1138     10015    1139.5     10025      1138     10040      1138     10145
GR      1140     10150      1142     10160

NC      .07       .07      .035        .3        .5
ET                          9.1                                                     9897.12   10050.58
X1    1.184        10      9900     10050       440       530       520
GR      1147      9875      1146      9900      1144      9980    1143.5     10000      1144     10015
GR      1146     10050      1148     10060      1150     10075      1152     10085      1154     10095

        2       525       525
ET                          9.1                                                     9969.54   10043.76

          Q @ X1 = 1.224 TO X1 = 1.723 EQUALS Q AT SUB40
          Q = 525 CFS
1
   20MAY92      13:55:05                                                                          PAGE    4
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DOWNSTREAM OF CATERPILLAR PROVING GROUND ROAD.

X1	1.224	10	9980	10015	240	140	215			
GR	1150	9880	1160	9900	1152	9945	1150	9960	1148	9980
GR	1146.2	10000	1148	10015	1150	10070	1152	10095	1152.2	10110
NC	.07	.07	.035	.1	.3					
ET			9.1						9945	10036.92
X1	1.282	14	9970	10015	260	340	305			
GR	1157	9800	1156	9815	1154	9830	1152	9845	1150	9855
GR	1149.6	9885	1150	9900	1150.4	9945	1150	9970	1148.4	10000
GR	1150	10015	1152	10050	1154	10080	1154.6	10165		
ET			9.1						9945.29	10050.22
X1	1.373	17	9985	10040	405	550	480			
GR	1162.1	9755	1162	9770	1161	9800	1161.7	9825	1160	9850
GR	1158	9870	1159	9895	1158	9915	1156	9935	1154.1	9955
GR	1154	9985	1153.6	10000	1154	10040	1156	10060	1158	10080
GR	1160	10090	1161.3	10135						
ET			9.1						9919.75	10080.50
X1	1.424	16	9980	10020	290	225	270			
GR	1166.8	9780	1166	9820	1164	9870	1162	9890	1160	9910
GR	1158	9920	1156	9935	1157.7	9980	1155.4	10000	1157.7	10020
GR	1156	10065	1158	10080	1160	10100	1162	10110	1164	10155
GR	1164.3	10195								
			9.1						9915	10023.16
X1	1.471	16	9980	10030	255	155	245			
GR	1168.2	9775	1168	9795	1166	9805	1160	9820	1158	9835
GR	1157.3	9855	1157.3	9915	1157.7	9980	1157.1	10000	1158	10015
GR	1160	10030	1164	10050	1165.8	10085	1165.7	10140	1166	10220
GR	1166.3	10255								
ET			9.1						9982.24	10090.52
X1	1.527	22	9980	10030	255	290	295			
GR	1173	9805	1172	9835	1170	9855	1168	9875	1167	9900
GR	1166	9920	1168	9935	1166	9965	1164	9975	1162	9980
GR	1160	9985	1159.8	10000	1160	10010	1160.5	10030	1160	10060
GR	1159.8	10070	1160	10085	1162	10095	1166	10110	1168	10120
GR	1170	10140	1170.2	10170						
NC	.07	.07	.035	.3	.5					
ET			9.1						9974.95	10030.1
X1	1.562	14	9985	10030	195	180	185			
GR	1180	9875	1174	9910	1172	9940	1170	9955	1166	9970
GR	1164	9975	1162	9985	1161.5	10000	1162	10010	1164	10030
GR	1166	10040	1168	10050	1170	10090	1171	10185		

ET			9.1						9907.40	10018.97
X1	1.597	11	9975	10020	225	90	185			
GR	1170.9	9860	1170	9885	1168	9895	1166	9905	1164	9940
GR	1164	9975	1163.1	10000	1164	10005	1166	10020	1170	10045
GR	1170.8	10090								

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ET                          9.1                                                   9941.50    10016.32
X1    1.631        11      9980     10010       75       225       180
GR     1170      9920      1168      9930   1166.4      9955      1166      9980    1164.5     10000
GR     1166     10010      1168     10020      1170     10030      1172     10050      1174     10065
GR   1174.7     10080

ET                          9.1                                                   9979.52    10035.96
X1    1.661        16      9975     10015      140       180       160
GR     1200      9760      1190      9800      1180      9890      1178      9910      1176      9930
GR     1174      9965      1170      9975      1166      9990    1165.5     10000      1166     10015
GR     1168     10030      1170     10045      1172     10055      1174     10065      1176     10070
GR     1178     10105

QT        2       262       262
ET                          9.1                                                   9972.62    10015.95

          Q @ X1 = 1.723 TO X1 = 2.616 EQUALS (Q AT SUB40)/2
          Q = 262 CFS

X1    1.723        10      9975     10015      405       250       325
GR     1182      9920      1180      9950      1178      9975    1176.2     10000      1178     10015
GR     1180     10025      1182     10055      1184     10075      1186     10095      1188     10120

ET                          9.1                                                   9986.30    10021.85
X1    1.762        15      9975     10030      230       130       210
GR     1190      9720      1188      9755      1186      9790      1188      9840      1186      9880
GR     1184      9950    1183.5      9960      1184      9970    1184.5      9975      1184      9980
GR     1182      9990    1180.8     10000      1182     10020      1186     10030      1190     10050

ET                          9.1                                                   9979.33    10020.45
X1    1.811        16      9980     10020      185       305       255
GR   1193.3      9940      1192      9965      1190      9980      1188     10000      1190     10020
GR     1192     10030    1192.8     10045      1192     10060    1190.9     10075    1191.8     10100
GR     1192     10115    1193.7     10140      1194     10160      1196     10185      1198     10205
GR     1200     10220

ET                          9.1                                                   9987.22    10030.28
X1    1.855        11      9980     10015      215       210       235
GR   1200.8      9810      1200      9860    1199.5      9890      1200      9935      1198      9980
GR     1196      9990      1194     10000      1196     10015      1198     10070      1200     10100
GR   1200.3     10115
1
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NC      .07       .07      .035        .1        .3
ET                          9.1                                                   9988.46    10014.36
X1    1.918         8      9995     10010      390       190       330
GR   1210.4      9965      1210      9980      1206      9995    1205.4     10000      1206     10010
GR     1210     10020      1212     10035    1212.4     10055

ET                          9.1                                                   9988.23    10019.83
X1    1.951         9      9985     10025      175       170       175
GR   1221.2      9930      1220      9960      1218      9970      1216      9985    1212.8     10000
GR     1214     10010      1216     10025      1220     10040    1220.6     10050

ET                          9.1                                                   9983.97    10009.02
X1    2.005        17      9975     10025      240       315       285
GR   1237.5      9865      1236      9930      1234      9950      1230      9975      1226      9990
GR   1225.3     10000      1226     10005      1230     10015      1232     10025      1234     10035
GR     1236     10050      1238     10070      1240     10100      1242     10110      1244     10120
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GR     1250      10155      1254      10215

ET                          9.1                                                    9992.16    10012.84
X1     2.046        12      9980      10025       200       265       220
       1250       9875      1248       9900    1248.8      9925      1248      9945      1246       9980
GR     1240       9995      1238      10000      1240     10010      1246     10025      1248      10030
GR     1248      10090    1248.7      10140

ET                          9.1                                                    9981.72    10011.64
X1     2.095         9      9985      10010       260       240       255
GR     1266       9930      1264       9950      1262      9975      1260      9985    1258.3      10000
GR     1260      10010      1262      10015      1264     10020    1264.5     10030

ET                          9.1                                                    9942.30    10015.78
X1     2.140         9      9980      10010       200       250       240
GR     1280       9905      1278       9930      1276      9950      1276      9980    1275.3      10000
GR     1276      10010      1278      10025      1280     10060      1281     10100

ET                          9.1                                                    9982.48    10019.21
X1     2.220         6      9985      10015       420       325       420
GR   1308.7       9965      1308       9970      1306      9985      1304     10000      1306      10015
GR     1308      10040

ET                          9.1                                                    9984.23    10016.65
X1     2.275        10      9985      10015       300       205       290
GR     1380       9825      1370       9840      1360      9870      1350      9910      1340       9950
GR     1330       9985    1327.8      10000      1330     10015      1332     10030      1334      10050

ET                          9.1                                                    9975.77    10010.09
       2.346         5      9960      10025       295       380       375
       1378       9960      1374      10000      1380     10025      1390     10050      1400      10075
1
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ET                          9.1                                                    9964.18    10007.17
X1     2.399         5      9950      10010       275       280       280
GR     1430       9870      1420       9950    1417.1     10000      1420     10010      1430      10035

ET                          9.1                                                    9986.06    10013.94
X1     2.466         7      9980      10020       345       355       355
GR     1500       9910      1490       9965      1484      9980      1480     10000      1484      10020
GR     1490      10060      1500      10095

ET                          9.1                                                    9989.24    10018.84
X1     2.524         6      9980      10035       270       310       305
GR     1580       9915      1570       9935      1560      9965      1550      9980      1545      10000
GR     1550      10035

ET                          9.1                                                    9988.88    10016.67
X1     2.616         5      9980      10030       450       520       490
GR     1690       9960      1680       9980      1675     10000      1680     10030      1690      10050
1
   20MAY92      13:55:05                                                                          PAGE    8


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
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*PROF 1
0

V=     .300 CEHV=     .500
*SECNO  .000
          STARTING WSEL FROM TUTHILL DIKE(WASH "5") HEC-2 RUN AT CROSS SECTION
          1.313 = 1100.98 FEET.

          CONFLUENCE WITH TUTHILL DIKE WASH

          Q @ X1 = 0.000 TO X1 = 0.120 EQUALS Q AT CP42
          Q = 6601 CFS

     .000      5.98   1100.98   1100.92   1100.98   1102.92      1.94       .00       .00   1096.00
   6601.0     528.6    4995.7    1076.6      76.9     411.0     143.9        .0        .0   1096.00
     .00      6.87     12.16      7.48      .040      .035      .040      .000   1095.00   9920.10
  .008487        0.        0.        0.         0         4         0       .00    159.70  10079.80


*SECNO  .009

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.17

          NEXT THREE UPSTREAM CORSS SECTIONS EXTEND THROUGH A DETENTION BASIN
          AND INDICATE PONDING.


     .009      8.43   1103.43       .00       .00   1103.54       .11       .07       .55   1096.00
   6601.0     369.3    4292.6    1939.1     203.5    1426.7    1048.2       3.6       1.0   1096.00
     .01      1.81      3.01      1.85      .040      .035      .040      .000   1095.00   9876.21
  .000318      150.       50.      150.         3         0         0       .00    595.52  10471.73


*SECNO  .062

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  8.12

     .062     32.06   1103.56       .00       .00   1103.57       .01       .00       .03   1090.00
   6601.0     832.7    5525.9     242.4    2443.5    7051.5     794.3      49.9       5.5   1090.00
     .12       .34       .78       .31      .040      .035      .040      .000   1071.50   9538.22
  .000005      575.      275.      100.         2         0         0       .00    850.49  10388.71


1
   20MAY92      13:55:05                                                                          PAGE    9


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO  .120

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .41
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.120	27.55	1103.55	.00	.00	1103.58	.02	.00	.00	1080.00
6601.0	914.6	4976.1	710.3	2138.3	3538.5	1108.6	109.5	10.5	1080.00
.19	.43	1.41	.64	.070	.050	.070	.000	1076.00	9602.23
.000029	275.	310.	340.	2	0	0	.00	594.13	10196.36

*SECNO .178

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 0.0178 TO X1 = 0.602 EQUALS Q AT (R40 + 4/5 SUB42)
Q = 427 + 4/5(1029) = 1250 CFS

.178	2.41	1103.61	1103.61	.00	1104.24	.63	.01	.18	1102.00
1250.0	82.8	881.0	286.2	29.3	120.8	88.2	133.6	13.1	1102.00
.20	2.83	7.30	3.25	.070	.050	.070	.000	1101.20	9933.72
.023726	295.	305.	285.	20	28	0	.00	191.60	10125.31

*SECNO .274

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.79

.274	3.11	1106.31	.00	.00	1106.37	.06	2.07	.06	1103.80
1250.0	421.4	631.5	197.1	262.9	275.3	170.7	139.0	16.2	1104.40
.28	1.60	2.29	1.15	.070	.050	.070	.000	1103.20	9839.45
.001649	495.	505.	495.	5	0	0	.00	333.95	10173.41

*SECNO .367

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

.367	2.28	1107.68	.00	.00	1107.79	.11	1.40	.01	1106.00
1250.0	811.6	430.4	8.0	373.9	128.6	9.9	145.9	20.1	1107.00
.33	2.17	3.35	.81	.070	.050	.070	.000	1105.40	9694.56
.006183	485.	495.	490.	4	0	0	.00	369.39	10063.95

*SECNO .456

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

.456	2.29	1109.69	.00	.00	1109.74	.06	1.95	.01	1108.70
1250.0	612.1	637.9	.0	368.8	302.8	.0	152.3	24.4	1110.00

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     .40      1.66      2.11       .00      .070      .050      .000      .000   1107.40   9658.94
  .002919     480.      470.      470.         3         0         0       .00    422.41  10081.34


CNO  .602

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .39

    .602      1.37   1113.97   1113.84       .00   1114.16       .19      4.37       .04   1113.00
  1250.0     133.7     627.0     489.3      74.5     136.7     255.2     161.6      34.8   1112.90
     .46      1.80      4.59      1.92      .070      .050      .070      .000   1112.60   9785.61
  .018904     475.      770.     1000.        13        11         0       .00    748.63  10534.23


*SECNO  .705

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3720 CRITICAL DEPTH ASSUMED

          Q @ X1 = 0.705 TO X1 = 1.184 EQUALS AT (R40 + 1/2 SUB42)
          Q = 427 + 1/2(1029) = 942 CFS

          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

    .705      1.07   1119.87   1119.87       .00   1120.09       .22     12.80       .01   1120.00
   942.0        .0     264.5     677.5        .0      52.6     216.8     165.1      40.9   1120.00
     .49       .00      5.03      3.12      .000      .050      .070      .000   1118.80   9941.95
  .065714     500.      545.      350.        20        19         0       .00    598.74  10563.32


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  20MAY92      13:55:05                                                                          PAGE   11


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .801
3280 CROSS SECTION       .80 EXTENDED       .36 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.46


          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

    .801      2.36   1126.66       .00       .00   1126.73       .08      6.63       .01   1126.00
   942.0       2.3     267.9     671.8       3.1      88.6     373.5     169.3      46.7   1125.20
     .56       .75      3.02      1.80      .070      .050      .070      .000   1124.30   9970.63
  .005490     495.      505.      500.        10         0         0       .00    399.37  10370.00


*SECNO  .902

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

    .902      1.83   1131.33       .00       .00   1131.81       .48      4.96       .12   1132.00
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    942.0       .0     942.0       .0       .0     169.2       .0     172.9      49.6   1132.00
      .58      .00      5.57      .00     .000      .050     .000      .000   1129.50   9950.02
  .021433     580.      530.     480.        6         0        0       .00    116.64  10066.66

*SECNO  .988

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.62

     .988     2.71   1134.71      .00      .00   1134.83      .12      2.98       .04   1134.00
    942.0      1.5     939.7       .7      2.5     341.6      1.3     175.6      51.1   1134.00
      .63      .59      2.75      .59     .070      .050     .070      .000   1132.00   9972.87
  .003127     430.      455.     465.        3         0        0       .00    170.70  10143.57


*SECNO 1.085

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.085     3.02   1138.92  1138.92      .00   1139.45      .54      3.86       .13   1140.00
    942.0       .0     942.0       .0       .0     160.2       .0     178.6      53.0   1140.00
      .65      .00      5.88      .00     .000      .050     .000      .000   1135.90   9985.29
  .036792     535.      515.     510.        4         8        0       .00    152.25  10147.29


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  20MAY92      13:55:05                                                                    PAGE   12

   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO 1.184

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.33

    1.184     2.63   1146.13      .00      .00   1146.43      .30      6.91       .07   1146.00
    942.0       .1     941.9       .0       .2     213.1       .0     180.8      54.8   1146.00
      .69      .28      4.42      .02     .070      .035     .070      .000   1143.50   9896.77
  .006792     440.      520.     530.        7         0        0       .00    153.87  10050.65


*SECNO 1.224
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

          Q @ X1 = 1.224 TO X1 = 1.723 EQUALS Q AT SUB40
          Q = 525 CFS

          DOWNSTREAM OF CATERPILLAR PROVING GROUND ROAD.

    1.224     2.85   1149.05  1149.05      .00   1149.82      .77      1.75       .23   1148.00
    525.0      8.3     494.0     22.8      5.5      68.1     15.0     181.6      55.4   1148.00
      .70     1.51      7.26      1.52     .070      .035     .070      .000   1146.20   9969.55
  .012117     240.      215.     140.       20         8        0       .00     74.19  10043.74
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CCHV= .100 CEHV= .300
*SECNO 1.282

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.10

1.282	2.85	1151.25	.00	.00	1151.39	.14	1.51	.06	1150.00
525.0	181.7	332.1	11.2	143.0	92.4	13.7	182.7	56.3	1150.00
.73	1.27	3.60	.82	.070	.035	.070	.000	1148.40	9848.74
.002759	260.	305.	340.	4	0	0	.00	188.19	10036.92

*SECNO 1.373
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
1
20MAY92 13:55:05 PAGE 13

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.373	1.42	1155.02	1155.02	.00	1155.56	.53	2.60	.12	1154.00
525.0	87.2	428.5	9.3	33.6	67.2	5.2	184.5	57.8	1154.00
.75	2.59	6.38	1.78	.070	.035	.070	.000	1153.60	9945.29
.017263	405.	480.	550.	20	8	0	.00	104.92	10050.22

*SECNO 1.424

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

1.424	2.65	1158.05	.00	.00	1158.23	.18	2.64	.04	1157.70
525.0	130.3	264.5	130.3	69.7	60.0	69.7	185.4	58.6	1157.70
.77	1.87	4.41	1.87	.070	.035	.070	.000	1155.40	9919.75
.006336	290.	270.	225.	5	0	0	.00	160.75	10080.50

*SECNO 1.471

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

1.471	1.98	1159.08	.00	.00	1159.14	.06	.90	.01	1157.70
525.0	360.3	164.7	.0	243.6	61.2	.0	186.8	59.5	1160.00
.81	1.48	2.69	.00	.070	.035	.000	.000	1157.10	9826.84
.002523	255.	245.	155.	4	0	0	.00	196.31	10023.16

*SECNO 1.527
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.527	1.30	1161.10	1161.10	.00	1161.61	.50	1.62	.13	1162.00
525.0	.0	327.9	197.1	.0	48.7	58.8	188.1	60.5	1160.50

.82	.00	6.73	3.35	.000	.035	.070	.000	1159.80	9982.24
.024619	255.	295.	290.	20	14	0	.00	108.28	10090.52

V= .300 CEHV= .500

*SECNO 1.562

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.562	2.53	1164.03	.00	.00	1164.66	.63	2.98	.06	1162.00
525.0	23.2	501.8	.0	10.2	77.2	.0	188.5	60.8	1164.00
.83	2.27	6.50	.02	.070	.035	.000	.000	1161.50	9974.95
.011458	195.	185.	180.	3	0	0	.00	55.16	10030.10

*SECNO 1.597

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

1.597	2.76	1165.86	.00	.00	1166.06	.20	1.27	.13	1164.00
525.0	177.6	347.4	.0	95.6	82.4	.0	189.1	61.2	1166.00
.85	1.86	4.22	.00	.070	.035	.000	.000	1163.10	9907.40
.004298	225.	185.	90.	3	0	0	.00	111.57	10018.97

*SECNO 1.631

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.631	2.76	1167.26	1167.26	.00	1167.99	.73	1.04	.26	1166.00
525.0	72.1	446.1	6.7	32.4	60.4	4.0	189.6	61.5	1166.00
.85	2.22	7.38	1.69	.070	.035	.070	.000	1164.50	9941.50
.011981	75.	180.	225.	20	5	0	.00	74.82	10016.32

*SECNO 1.661

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

1.661	3.30	1168.80	.00	.00	1169.17	.38	1.07	.11	1170.00
525.0	.0	468.3	56.7	.0	90.7	29.3	189.9	61.7	1166.00
.86	.00	5.16	1.94	.000	.035	.070	.000	1165.50	9979.52
004287	140.	160.	180.	2	0	0	.00	56.43	10035.96

*SECNO 1.723
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q @ X1 = 1.723 TO X1 = 2.616 EQUALS (Q AT SUB40)/2
Q = 262 CFS

1.723	1.99	1178.19	1178.19	.00	1178.75	.56	2.00	.09	1178.00
262.0	.1	261.9	.0	.2	43.6	.1	190.5	62.1	1178.00
.88	.59	6.00	.03	.070	.035	.070	.000	1176.20	9972.62
.017930	405.	325.	250.	20	14	0	.00	43.33	10015.95

*SECNO 1.762
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.762	1.94	1182.74	1182.74	.00	1183.34	.60	3.68	.02	1184.50
262.0	.0	262.0	.0	.0	42.2	.0	190.7	62.3	1186.00
.89	.00	6.20	.00	.000	.035	.000	.000	1180.80	9986.30
.017175	230.	210.	130.	10	8	0	.00	35.55	10021.85

*SECNO 1.811
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.811	2.09	1190.09	1190.09	.00	1190.65	.56	4.48	.01	1190.00
262.0	.0	262.0	.0	.0	43.6	.0	191.0	62.5	1190.00
.90	.03	6.01	.03	.070	.035	.070	.000	1188.00	9979.33
.017985	185.	255.	305.	5	8	0	.00	41.12	10020.45

*SECNO 1.855
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.855	2.56	1196.56	1196.56	.00	1197.20	.64	3.82	.04	1198.00
262.0	.0	257.3	4.7	.0	39.7	4.2	191.2	62.7	1196.00
.91	.00	6.49	1.10	.000	.035	.070	.000	1194.00	9987.22
.014792	215.	235.	210.	20	11	0	.00	43.06	10030.28

CCHV= .100 CEHV= .300
*SECNO 1.918
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.918	2.35	1207.75	1207.75	.00	1208.64	.89	4.60	.07	1206.00
262.0	12.5	241.4	8.1	5.7	30.7	3.8	191.5	63.0	1206.00
.92	2.18	7.87	2.13	.070	.035	.070	.000	1205.40	9988.46
.013293	390.	330.	190.	20	11	0	.00	25.91	10014.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 1.951
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
    1.951      2.51   1215.31   1215.31      .00   1215.97      .66      2.63      .02   1216.00
    262.0        .0     262.0       .0       .0     40.3       .0     191.7     63.1   1216.00
      .93       .00      6.50       .00     .000     .035     .000      .000  1212.80   9988.23
  .017207      175.      175.      170.       20        8        0       .00    31.61  10019.83


*SECNO 2.005
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.005      2.31   1227.61   1227.61      .00   1228.37      .76      4.79      .03   1230.00
    262.0        .0     262.0       .0       .0     37.4       .0     192.0     63.3   1232.00
      .94       .00      7.00       .00     .000     .035     .000      .000  1225.30   9983.97
  .016427      240.      285.      315.       20       11        0       .00    25.04  10009.02


*SECNO 2.046
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.046      3.13   1241.13   1241.13      .00   1241.99      .86      3.57      .03   1246.00
    262.0        .0     262.0       .0       .0     35.2       .0     192.1     63.4   1246.00
      .95       .00      7.44       .00     .000     .035     .000      .000  1238.00   9992.16
  .016063      200.      220.      265.       20       11        0       .00    20.67  10012.84


*SECNO 2.095
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.095      2.36   1260.66   1260.66      .00   1261.39      .74      4.03      .01   1260.00
    262.0       1.3     260.0        .6      1.1     37.6       .5     192.4     63.5   1260.00
      .96      1.24      6.91      1.20     .070     .035     .070      .000  1258.30   9981.72
  .015541      260.      255.      240.       20       19        0       .00    29.92  10011.64


*SECNO 2.140
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3720 CRITICAL DEPTH ASSUMED
    2.140      1.47   1276.77   1276.77      .00   1277.21      .44      3.83      .03   1276.00
    262.0      58.1     200.7       3.2     26.1     33.6      2.2     192.6     63.8   1276.00
      .97      2.23      5.97      1.46     .070     .035     .070      .000  1275.30   9942.30
  .017037      200.      240.      250.       20       14        0       .00    73.48  10015.78


*SECNO 2.220
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.220	2.34	1306.34	1306.34	.00	1306.99	.66	6.96	.06	1306.00
262.0	.3	261.1	.6	.4	40.1	.7	193.1	64.3	1306.00
.99	.82	6.51	.82	.070	.035	.070	.000	1304.00	9982.48
.016163	420.	420.	325.	20	14	0	.00	36.73	10019.21

*SECNO 2.275
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.275	2.42	1330.22	1330.22	.00	1330.90	.68	4.80	.01	1330.00
262.0	.0	261.9	.1	.1	39.6	.2	193.4	64.5	1330.00
1.00	.03	6.61	.63	.070	.035	.070	.000	1327.80	9984.23
.016976	300.	290.	205.	20	8	0	.00	32.42	10016.65

*SECNO 2.346
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.346	2.42	1376.42	1376.42	.00	1377.04	.62	6.43	.01	1378.00
262.0	.0	262.0	.0	.0	41.6	.0	193.7	64.8	1380.00
1.02	.00	6.30	.00	.000	.035	.000	.000	1374.00	9975.77
.017335	295.	375.	380.	20	5	0	.00	34.32	10010.09

*SECNO 2.399
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.399	2.08	1419.18	1419.18	.00	1419.71	.53	4.99	.01	1420.00
262.0	.0	262.0	.0	.0	44.6	.0	194.0	65.1	1420.00
1.03	.00	5.87	.00	.000	.035	.000	.000	1417.10	9964.18
.018358	275.	280.	280.	20	15	0	.00	42.98	10007.16

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.466
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.466	2.79	1482.79	1482.79	.00	1483.49	.71	6.20	.05	1484.00
262.0	.0	262.0	.0	.0	38.8	.0	194.4	65.4	1484.00
1.04	.00	6.75	.00	.000	.035	.000	.000	1480.00	9986.06
.016646	345.	355.	355.	20	11	0	.00	27.87	10013.94

*SECNO 2.524
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.524	2.69	1547.69	1547.69	.00	1548.36	.67	5.06	.00	1550.00
262.0	.0	262.0	.0	.0	39.8	.0	194.6	65.6	1550.00
1.06	.00	6.58	.00	.000	.035	.000	.000	1545.00	9989.24
.016537	270.	305.	310.	20	8	0	.00	29.60	10018.84

*SECNO 2.616

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.616	2.78	1677.78	1677.78	.00	1678.49	.71	8.20	.01	1680.00
262.0	.0	262.0	.0	.0	38.6	.0	195.1	65.9	1680.00
1.08	.00	6.79	.00	.000	.035	.000	.000	1675.00	9988.88
.016927	450.	490.	520.	20	8	0	.00	27.79	10016.67

1

PROFILE FOR STREAM BULLDOZER WASH - WASH "5

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1072.	1172.	1272.	1372.	1472.	1572.	1672.	1772.	1872.	1972.
SECNO	CUMDIS									
.00	0.	. IE	.	.	.	.	.	.	.	.	.
.01	50.	C IE	.	.	.	.	.	.	.	.	.
	100.	C IE	.	.	.	.	.	.	.	.	.
	150.	CILE	.	.	.	.	.	.	.	.	.
	200.	CILE	.	.	.	.	.	.	.	.	.
	250.	CILE	.	.	.	.	.	.	.	.	.
	300.	I LE	.	.	.	.	.	.	.	.	.
.06	350.	I LE	.	.	.	.	.	.	.	.	.
	400.	I LE	.	.	.	.	.	.	.	.	.
	450.	I LE	.	.	.	.	.	.	.	.	.
	500.	IL E	.	.	.	.	.	.	.	.	.
	550.	IL E	.	.	.	.	.	.	.	.	.
	600.	IL E	.	.	.	.	.	.	.	.	.
.12	650.	IL E	.	.	.	.	.	.	.	.	.
	700.	CI E	.	.	.	.	.	.	.	.	.
	750.	CILE	.	.	.	.	.	.	.	.	.
	800.	C IE	.	.	.	.	.	.	.	.	.
	850.	C IE	.	.	.	.	.	.	.	.	.
	900.	C E	.	.	.	.	.	.	.	.	.
.18	950.	. E	.	.	.	.	.	.	.	.	.
	1000.	C E	.	.	.	.	.	.	.	.	.
	1050.	C E	.	.	.	.	.	.	.	.	.
	1100.	C E	.	.	.	.	.	.	.	.	.
	1150.	C E	.	.	.	.	.	.	.	.	.
	1200.	C E	.	.	.	.	.	.	.	.	.
	1250.	C E	.	.	.	.	.	.	.	.	.
	1300.	C E	.	.	.	.	.	.	.	.	.
	1350.	C E	.	.	.	.	.	.	.	.	.
	1400.	C E	.	.	.	.	.	.	.	.	.
.27	1450.	C EM	.	.	.	.	.	.	.	.	.
	1500.	C WE	.	.	.	.	.	.	.	.	.
	1550.	C IE	.	.	.	.	.	.	.	.	.
	1600.	C IE	.	.	.	.	.	.	.	.	.

	1650.	C	IE	.	.	.	.	.	.	.	.	.	.
	1700.	C	IE	.	.	.	.	.	.	.	.	.	.
	1750.	C	IE	.	.	.	.	.	.	.	.	.	.
	1800.	C	IE	.	.	.	.	.	.	.	.	.	.
	1850.	C	IE	.	.	.	.	.	.	.	.	.	.
	1900.	C	IE	.	.	.	.	.	.	.	.	.	.
.37	1950.	C	IE	.	.	.	.	.	.	.	.	.	.
	2000.	C	IE	.	.	.	.	.	.	.	.	.	.
	2050.	C	IE	.	.	.	.	.	.	.	.	.	.
	2100.	C	IE	.	.	.	.	.	.	.	.	.	.
	2150.	C	IE	.	.	.	.	.	.	.	.	.	.
	2200.	C	IE	.	.	.	.	.	.	.	.	.	.
	2250.	C	E	.	.	.	.	.	.	.	.	.	.
	2300.	C	E	.	.	.	.	.	.	.	.	.	.
	2350.	C	E	.	.	.	.	.	.	.	.	.	.
	2400.	C	E	.	.	.	.	.	.	.	.	.	.
.46	2450.	C	E	.	.	.	.	.	.	.	.	.	.
	2500.	C	E	.	.	.	.	.	.	.	.	.	.
	2550.	C	E	.	.	.	.	.	.	.	.	.	.
	2600.	C	E	.	.	.	.	.	.	.	.	.	.
	2650.	C	E	.	.	.	.	.	.	.	.	.	.
	2700.	C	E	.	.	.	.	.	.	.	.	.	.
	2750.	C	E	.	.	.	.	.	.	.	.	.	.
	2800.	C	E	.	.	.	.	.	.	.	.	.	.
	2850.	C	E	.	.	.	.	.	.	.	.	.	.
	2900.	C	E	.	.	.	.	.	.	.	.	.	.
	2950.	C	E	.	.	.	.	.	.	.	.	.	.
	3000.	C	E	.	.	.	.	.	.	.	.	.	.
	3050.	C	E	.	.	.	.	.	.	.	.	.	.
	3100.	C	E	.	.	.	.	.	.	.	.	.	.
	3150.	C	E	.	.	.	.	.	.	.	.	.	.
.60	3200.	.	E	.	.	.	.	.	.	.	.	.	.
	3250.	.	E	.	.	.	.	.	.	.	.	.	.
	3300.	.	E	.	.	.	.	.	.	.	.	.	.
	3350.	.	E	.	.	.	.	.	.	.	.	.	.
	3400.	.	EM	.	.	.	.	.	.	.	.	.	.
	3450.	.	IE	.	.	.	.	.	.	.	.	.	.
	3500.	.	IE	.	.	.	.	.	.	.	.	.	.
	3550.	.	E	.	.	.	.	.	.	.	.	.	.
	3600.	.	E	.	.	.	.	.	.	.	.	.	.
	3650.	.	E	.	.	.	.	.	.	.	.	.	.
	3700.	.	E	.	.	.	.	.	.	.	.	.	.
.70	3750.	.	E	.	.	.	.	.	.	.	.	.	.
	3800.	C	E	.	.	.	.	.	.	.	.	.	.
	3850.	C	E	.	.	.	.	.	.	.	.	.	.
	3900.	C	E	.	.	.	.	.	.	.	.	.	.
	3950.	C	E	.	.	.	.	.	.	.	.	.	.
	4000.	C	E	.	.	.	.	.	.	.	.	.	.
	4050.	C	E	.	.	.	.	.	.	.	.	.	.
	4100.	C	E	.	.	.	.	.	.	.	.	.	.
	4150.	C	E	.	.	.	.	.	.	.	.	.	.
	4200.	C	E	.	.	.	.	.	.	.	.	.	.
.80	4250.	C	IE	.	.	.	.	.	.	.	.	.	.
	4300.	C	IE	.	.	.	.	.	.	.	.	.	.
	4350.	C	IE	.	.	.	.	.	.	.	.	.	.
	4400.	C	IE	.	.	.	.	.	.	.	.	.	.
	4450.	C	IE	.	.	.	.	.	.	.	.	.	.
	4500.	C	E	.	.	.	.	.	.	.	.	.	.
	4550.	C	E	.	.	.	.	.	.	.	.	.	.
	4600.	C	E	.	.	.	.	.	.	.	.	.	.
	4650.	C	E	.	.	.	.	.	.	.	.	.	.
	4700.	C	E	.	.	.	.	.	.	.	.	.	.

	4750.	C	E	.	.	.	.	.	.	.	.	.	.
.90	4800.	C	E	.	.	.	.	.	.	.	.	.	.
	4850.	C	E	.	.	.	.	.	.	.	.	.	.
	4900.	C	E	.	.	.	.	.	.	.	.	.	.
	4950.	C	E	.	.	.	.	.	.	.	.	.	.
	5000.	C	E	.	.	.	.	.	.	.	.	.	.
	5050.	C	E	.	.	.	.	.	.	.	.	.	.
	5100.	C	E	.	.	.	.	.	.	.	.	.	.
	5150.	C	E	.	.	.	.	.	.	.	.	.	.
	5200.	C	E	.	.	.	.	.	.	.	.	.	.
.99	5250.	C	E	.	.	.	.	.	.	.	.	.	.
	5300.	C	EM	.	.	.	.	.	.	.	.	.	.
	5350.	C	EM	.	.	.	.	.	.	.	.	.	.
	5400.	C	EM	.	.	.	.	.	.	.	.	.	.
	5450.	C	WE	.	.	.	.	.	.	.	.	.	.
	5500.	C	IE	.	.	.	.	.	.	.	.	.	.
	5550.	C	IE	.	.	.	.	.	.	.	.	.	.
	5600.	C	IE	.	.	.	.	.	.	.	.	.	.
	5650.	C	IE	.	.	.	.	.	.	.	.	.	.
	5700.	C	IE	.	.	.	.	.	.	.	.	.	.
1.09	5750.	.	IE	.	.	.	.	.	.	.	.	.	.
	5800.	C	E	.	.	.	.	.	.	.	.	.	.
	5850.	C	E	.	.	.	.	.	.	.	.	.	.
	5900.	C	E	.	.	.	.	.	.	.	.	.	.
	5950.	C	E	.	.	.	.	.	.	.	.	.	.
	6000.	C	E	.	.	.	.	.	.	.	.	.	.
	6050.	C	E	.	.	.	.	.	.	.	.	.	.
	6100.	C	E	.	.	.	.	.	.	.	.	.	.
	6150.	C	E	.	.	.	.	.	.	.	.	.	.
	6200.	C	E	.	.	.	.	.	.	.	.	.	.
1.18	6250.	C	EM	.	.	.	.	.	.	.	.	.	.
	6300.	C	IE	.	.	.	.	.	.	.	.	.	.
	6350.	C	IE	.	.	.	.	.	.	.	.	.	.
	6400.	C	IE	.	.	.	.	.	.	.	.	.	.
	6450.	C	IE	.	.	.	.	.	.	.	.	.	.
1.22	6500.	.	IE	.	.	.	.	.	.	.	.	.	.
	6550.	C	E	.	.	.	.	.	.	.	.	.	.
	6600.	C	E	.	.	.	.	.	.	.	.	.	.
	6650.	C	E	.	.	.	.	.	.	.	.	.	.
	6700.	C	E	.	.	.	.	.	.	.	.	.	.
	6750.	C	E	.	.	.	.	.	.	.	.	.	.
1.28	6800.	C	E	.	.	.	.	.	.	.	.	.	.
	6850.	C	E	.	.	.	.	.	.	.	.	.	.
	6900.	C	E	.	.	.	.	.	.	.	.	.	.
	6950.	C	EM.		.	.	.	.	.	.	.	.	.
	7000.	C	EM.		.	.	.	.	.	.	.	.	.
	7050.	C	EM.		.	.	.	.	.	.	.	.	.
	7100.	C	EM.		.	.	.	.	.	.	.	.	.
	7150.	C	EM.		.	.	.	.	.	.	.	.	.
	7200.	C	EM.		.	.	.	.	.	.	.	.	.
1.37	7250.	.	EM.		.	.	.	.	.	.	.	.	.
	7300.	C	EM.		.	.	.	.	.	.	.	.	.
	7350.	C	WE.		.	.	.	.	.	.	.	.	.
	7400.	C	IE.		.	.	.	.	.	.	.	.	.
	7450.	C	IE.		.	.	.	.	.	.	.	.	.
	7500.	C	IE.		.	.	.	.	.	.	.	.	.
1.42	7550.	C	IE.		.	.	.	.	.	.	.	.	.
	7600.	C	IE.		.	.	.	.	.	.	.	.	.
	7650.	C	IE.		.	.	.	.	.	.	.	.	.
	7700.	C	IE.		.	.	.	.	.	.	.	.	.
	7750.	C	E.		.	.	.	.	.	.	.	.	.
1.47	7800.	C	E.		.	.	.	.	.	.	.	.	.

	7850.	C	EM	.	.	.	.	.	.	.	.	.
	7900.	C	EM	.	.	.	.	.	.	.	.	.
	7950.	C	EM	.	.	.	.	.	.	.	.	.
	8000.	C	EM	.	.	.	.	.	.	.	.	.
	8050.	C	EM	.	.	.	.	.	.	.	.	.
1.53	8100.	.	EM	.	.	.	.	.	.	.	.	.
	8150.	C	EM	.	.	.	.	.	.	.	.	.
	8200.	C	EM	.	.	.	.	.	.	.	.	.
1.56	8250.	C	EM	.	.	.	.	.	.	.	.	.
	8300.	C	EM	.	.	.	.	.	.	.	.	.
	8350.	C	EM	.	.	.	.	.	.	.	.	.
	8400.	C	EM	.	.	.	.	.	.	.	.	.
1.60	8450.	C	EM	.	.	.	.	.	.	.	.	.
	8500.	C	WE	.	.	.	.	.	.	.	.	.
	8550.	C	IE	.	.	.	.	.	.	.	.	.
	8600.	C	IE	.	.	.	.	.	.	.	.	.
1.63	8650.	.	IE	.	.	.	.	.	.	.	.	.
	8700.	C	IE	.	.	.	.	.	.	.	.	.
	8750.	C	IE	.	.	.	.	.	.	.	.	.
1.66	8800.	C	IEM	.	.	.	.	.	.	.	.	.
	8850.	C	EM	.	.	.	.	.	.	.	.	.
	8900.	C	EM	.	.	.	.	.	.	.	.	.
	8950.	C	EM	.	.	.	.	.	.	.	.	.
	9000.	C	EM	.	.	.	.	.	.	.	.	.
	9050.	C	WE	.	.	.	.	.	.	.	.	.
1.72	9100.	.	IE	.	.	.	.	.	.	.	.	.
	9150.	.	.E	.	.	.	.	.	.	.	.	.
	9200.	.	.E	.	.	.	.	.	.	.	.	.
	9250.	.	.EM	.	.	.	.	.	.	.	.	.
	9300.	.	.EM	.	.	.	.	.	.	.	.	.
1.76	9350.	.	.EM	.	.	.	.	.	.	.	.	.
	9400.	.	.ER	.	.	.	.	.	.	.	.	.
	9450.	.	.EL	.	.	.	.	.	.	.	.	.
	9500.	.	.IE	.	.	.	.	.	.	.	.	.
	9550.	.	.IE	.	.	.	.	.	.	.	.	.
1.81	9600.	.	. E	.	.	.	.	.	.	.	.	.
	9650.	.	. E	.	.	.	.	.	.	.	.	.
	9700.	.	. E	.	.	.	.	.	.	.	.	.
	9750.	.	. EM	.	.	.	.	.	.	.	.	.
1.86	9800.	.	. IE	.	.	.	.	.	.	.	.	.
	9850.	.	. IE	.	.	.	.	.	.	.	.	.
	9900.	.	. E	.	.	.	.	.	.	.	.	.
	9950.	.	. E	.	.	.	.	.	.	.	.	.
	10000.	.	. E	.	.	.	.	.	.	.	.	.
	10050.	.	. EM	.	.	.	.	.	.	.	.	.
	10100.	.	. IE	.	.	.	.	.	.	.	.	.
1.92	10150.	.	. IE	.	.	.	.	.	.	.	.	.
	10200.	.	. E	.	.	.	.	.	.	.	.	.
	10250.	.	. E	.	.	.	.	.	.	.	.	.
1.95	10300.	.	. EM	.	.	.	.	.	.	.	.	.
	10350.	.	. IE	.	.	.	.	.	.	.	.	.
	10400.	.	. EM	.	.	.	.	.	.	.	.	.
	10450.	.	. EM	.	.	.	.	.	.	.	.	.
	10500.	.	. ER	.	.	.	.	.	.	.	.	.
	10550.	.	. WE	.	.	.	.	.	.	.	.	.
2.01	10600.	.	. IEM	.	.	.	.	.	.	.	.	.
	10650.	.	. EM	.	.	.	.	.	.	.	.	.
	10700.	.	. EL	.	.	.	.	.	.	.	.	.
	10750.	.	. IE	.	.	.	.	.	.	.	.	.
	10800.	.	. EM	.	.	.	.	.	.	.	.	.
2.05	10850.	.	. EM	.	.	.	.	.	.	.	.	.
	10900.	.	. EL	.	.	.	.	.	.	.	.	.

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     10950.  .    .   IE .    .    .    .    .    .    .    .    .
     11000.  .    .   EM.    .    .    .    .    .    .    .    .
     11050.  .    .   WE.    .    .    .    .    .    .    .    .
2.10 11100.  .    .    E.    .    .    .    .    .    .    .    .
     11150.  .    .    EM    .    .    .    .    .    .    .    .
     11200.  .    .    IE    .    .    .    .    .    .    .    .
     11250.  .    .     E    .    .    .    .    .    .    .    .
2.14 11300.  .    .     IE   .    .    .    .    .    .    .    .
     11350.  .    .     .E   .    .    .    .    .    .    .    .
     11400.  .    .     .EM  .    .    .    .    .    .    .    .
     11450.  .    .     .IE  .    .    .    .    .    .    .    .
     11500.  .    .     . E  .    .    .    .    .    .    .    .
     11550.  .    .     . EM .    .    .    .    .    .    .    .
     11600.  .    .     . IE .    .    .    .    .    .    .    .
     11650.  .    .     .  E .    .    .    .    .    .    .    .
     11700.  .    .     .  EM .   .    .    .    .    .    .    .
2.22 11750.  .    .     .  WE .   .    .    .    .    .    .    .
     11800.  .    .     .   E .   .    .    .    .    .    .    .
     11850.  .    .     .   EM .  .    .    .    .    .    .    .
     11900.  .    .     .   IE .  .    .    .    .    .    .    .
     11950.  .    .     .    E .  .    .    .    .    .    .    .
     12000.  .    .     .    IE .  .    .    .    .    .    .    .
2.28 12050.  .    .     .     E .  .    .    .    .    .    .    .
     12100.  .    .     .     WE .  .    .    .    .    .    .    .
     12150.  .    .     .      E .  .    .    .    .    .    .    .
     12200.  .    .     .      IE . .    .    .    .    .    .    .
     12250.  .    .     .       ER.      .    .    .    .    .    .
     12300.  .    .     .        E.      .    .    .    .    .    .
     12350.  .    .     .        IE      .    .    .    .    .    .
2.35 12400.  .    .     .         WE     .    .    .    .    .    .
     12450.  .    .     .         .ER    .    .    .    .    .    .
     12500.  .    .     .         . EM   .    .    .    .    .    .
     12550.  .    .     .         .  E   .    .    .    .    .    .
     12600.  .    .     .         .  IE  .    .    .    .    .    .
     12650.  .    .     .         .   EM .    .    .    .    .    .
2.40 12700.  .    .     .         .    EM .    .    .    .    .    .
     12750.  .    .     .         .    IEM .   .    .    .    .    .
     12800.  .    .     .         .     IEM .  .    .    .    .    .
     12850.  .    .     .         .      WEM.  .    .    .    .    .
     12900.  .    .     .         .       E M  .    .    .    .    .
     12950.  .    .     .         .        E.M .    .    .    .    .
     13000.  .    .     .         .         E M .   .    .    .    .
2.47 13050.  .    .     .         .         .E M .  .    .    .    .
     13100.  .    .     .         .         . E M . .    .    .    .
     13150.  .    .     .         .         .  EM . .    .    .    .
     13200.  .    .     .         .         .   EM . .   .    .    .
     13250.  .    .     .         .         .    EL . .  .    .    .
     13300.  .    .     .         .         .     WE . . .    .    .
2.52 13350.  .    .     .         .         .      IE . .    .    .
     13400.  .    .     .         .         .        E.      .    .
     13450.  .    .     .         .         .         EL     .    .
     13500.  .    .     .         .         .         .IE    .    .
     13550.  .    .     .         .         .          . EM  .    .
     13600.  .    .     .         .         .          .  EM .    .
     13650.  .    .     .         .         .          .   IE .   .
     13700.  .    .     .         .         .          .     EM .  .
     13750.  .    .     .         .         .          .      EM. .
     13800.  .    .     .         .         .          .       IEM .
2.62 13850.  .    .     .         .         .          .        IEM .
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T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE: 5A.H2I
T3      BULLDOZER WASH - WASH "5A"- TRIBUTARY TO TUTHILL DIKE WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0     1100.98     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0


1
   20MAY92      13:55:05                                                                          PAGE   20


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 *PROF 2
0

 CCHV=      .300 CEHV=     .500
 SECNO  .000

 3470 ENCROACHMENT STATIONS=     9919.8   10080.5  TYPE=      1  TARGET=      160.750
          STARTING WSEL FROM TUTHILL DIKE(WASH "5") HEC-2 RUN AT CROSS SECTION
          1.313 = 1100.98 FEET.

          CONFLUENCE WITH TUTHILL DIKE WASH

          Q @ X1 = 0.000 TO X1 = 0.120 EQUALS Q AT CP42
          Q = 6601 CFS

      .000      5.98   1100.98   1100.93   1100.98   1102.92      1.94       .00       .00   1096.00
    6601.0     528.6    4995.7    1076.6      76.9     411.0     143.9        .0        .0   1096.00
      .00      6.87     12.16      7.48      .040      .035      .040      .000   1095.00   9920.10
   .008487       0.        0.        0.         0         4         0       .00    159.70  10079.80


 *SECNO  .009

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.17


 3470 ENCROACHMENT STATIONS=     9870.3   10485.9  TYPE=      1  TARGET=      615.580
          NEXT THREE UPSTREAM CORSS SECTIONS EXTEND THROUGH A DETENTION BASIN
          AND INDICATE PONDING.


      .009      8.43   1103.43       .00   1103.43   1103.54       .11       .07       .55   1096.00
    6601.0     369.3    4292.6    1939.1     203.5    1426.7    1048.2       3.6       1.0   1096.00
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     .01      1.81      3.01      1.85      .040      .035      .040      .000   1095.00   9876.21
 .000318      150.       50.      150.         3         0         0       .00    595.52  10471.73


SECNO  .062
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
  Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  8.12


3470 ENCROACHMENT STATIONS=     9535.0   10419.7  TYPE=      1  TARGET=      884.700
     .062     32.06   1103.56       .00   1103.56   1103.57       .01       .00       .03   1090.00
   6601.0     832.7    5525.9     242.4    2443.5    7051.5     794.3      49.9       5.5   1090.00
     .12       .34       .78       .31      .040      .035      .040      .000   1071.50   9538.22
 .000005      575.      275.      100.         2         0         0       .00    850.50  10388.72


CCHV=     .100 CEHV=     .300
*SECNO  .120

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .41


3470 ENCROACHMENT STATIONS=     9601.7   10200.0  TYPE=      1  TARGET=      598.290
     .120     27.55   1103.55       .00   1103.55   1103.58       .02       .00       .00   1080.00
   6601.0     914.6    4976.1     710.3    2138.3    3538.5    1108.6     109.5      10.5   1080.00
     .19       .43      1.41       .64      .070      .050      .070      .000   1076.00   9602.23
 .000029      275.      310.      340.         2         0         0       .00    594.13  10196.36


*SECNO  .178

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9933.7   10125.3  TYPE=      1  TARGET=      191.590

          Q @ X1 = 0.0178 TO X1 = 0.602 EQUALS Q AT (R40 + 4/5 SUB42)
          Q = 427 + 4/5(1029) = 1250 CFS

     .178      2.43   1103.63   1103.63   1103.61   1104.24       .61       .01       .18   1102.00
   1250.0      84.2     876.4     289.3      29.9     121.9      90.0     133.6      13.1   1102.00
     .20      2.81      7.19      3.22      .070      .050      .070      .000   1101.20   9933.72
 .022774      295.      305.      285.        20        28         0       .00    191.59  10125.31


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO  .274
3280 CROSS SECTION       .27 EXTENDED       .24 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.24


3470 ENCROACHMENT STATIONS=     9950.0   10173.4  TYPE=      1  TARGET=      223.410
     .274      3.54   1106.74       .00   1106.31   1106.84       .10      2.55       .05   1103.80
   1250.0        .0     911.0     339.0        .0     319.2     220.3     138.1      15.5   1104.40
     .26       .00      2.85      1.54      .000      .050      .070      .000   1103.20   9950.00
  .002172      495.      505.      495.         6         0         0       .00    223.41  10173.41


*SECNO  .367

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66


3470 ENCROACHMENT STATIONS=     9840.0   10064.0  TYPE=      1  TARGET=      223.950
     .367      2.86   1108.26       .00   1107.68   1108.41       .15      1.56       .01   1106.00
   1250.0     581.1      631.4      37.5     243.3     172.1      26.6     143.6      18.0   1107.00
     .30      2.39      3.67      1.41      .070      .050      .070      .000   1105.40   9840.00
  .005041      485.      495.      490.         5         0         0       .00    223.95  10063.95


*SECNO  .456

3470 ENCROACHMENT STATIONS=     9825.0   10081.3  TYPE=      1  TARGET=      256.350
     .456      2.79   1110.19       .00   1109.69   1110.29       .10      1.88       .00   1108.70
   1250.0     172.7     1077.3        .0      99.4     403.7        .0     148.8      20.7 100000.00
     .35      1.74      2.67       .00      .070      .050      .000      .000   1107.40   9825.00
  .003200      480.      470.      470.         3         0         0       .00    256.35  10081.35


*SECNO  .602

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9785.6   10175.0  TYPE=      1  TARGET=      389.370
     .602      1.64   1114.24   1113.88   1113.97   1114.41       .17      4.10       .02   1113.00
   1250.0     214.3      674.2     361.6     116.2     167.8     144.2     156.6      26.0   1112.90
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      .42      1.84      4.02      2.51      .070      .050      .070      .000   1112.60   9785.63
  .011042      475.      770.     1000.        13        11         0       .00    389.37  10175.00

CNO  .705

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .59

3470 ENCROACHMENT STATIONS=     9928.3   10290.0  TYPE=      1  TARGET=      361.700

          Q @ X1 = 0.705 TO X1 = 1.184 EQUALS AT (R40 + 1/2 SUB42)
          Q = 427 + 1/2(1029) = 942 CFS

          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

     .705      1.56   1120.36       .00   1119.87   1120.52       .16      6.11       .00   1120.00
    942.0       1.7     405.0     535.3       1.6     105.4     209.9     160.4      29.8   1120.00
      .46      1.07      3.84      2.55      .070      .050      .070      .000   1118.80   9928.30
  .017720      500.      545.      350.         3         0         0       .00    361.70  10290.00

*SECNO  .801
3280 CROSS SECTION       .80 EXTENDED       .77 FEET

3470 ENCROACHMENT STATIONS=     9975.5   10150.0  TYPE=      1  TARGET=      174.510

          FLOW IN LEFT OVERBANK IS EFFECTIVE DUE TO UPSTREAM INFLOW.

     .801      2.78   1127.08       .00   1126.66   1127.34       .26      6.79       .03   1126.00
    942.0       7.6     546.5     387.9       4.1     111.4     147.2     163.8      32.9   1125.20
      .50      1.86      4.91      2.64      .070      .050      .070      .000   1124.30   9975.49
  .010643      495.      505.      500.         5         0         0       .00    174.51  10150.00

*SECNO  .902

3470 ENCROACHMENT STATIONS=     9946.3   10069.2  TYPE=      1  TARGET=      122.920
1
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

     .902      2.35   1131.85       .00   1131.33   1132.11       .26      4.77       .00 100000.00
    942.0        .0     942.0        .0        .0     232.3        .0     166.7      34.6 100000.00
      .53       .00      4.05       .00      .000      .050      .000      .000   1129.50   9946.25
  .007993      580.      530.      480.         4         0         0       .00    122.92  10069.17

NO  .988

3470 ENCROACHMENT STATIONS=     9974.5   10142.8  TYPE=      1  TARGET=      168.261
     .988      2.54   1134.54       .00   1134.71   1134.68       .14      2.56       .01   1134.00
    942.0        .8     940.8        .4       1.4     313.7        .7     169.6      36.1   1134.00
      .57       .57      3.00       .56      .070      .050      .070      .000   1132.00   9974.62
  .004166      430.      455.      465.         4         0         0       .00    168.08  10142.69
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*SECNO 1.085

5 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36


3470 ENCROACHMENT STATIONS=     9985.2   10147.3  TYPE=      1  TARGET=      162.180
    1.085      3.05   1138.95   1138.89   1138.92   1139.45       .50      4.67       .11 100000.00
    942.0        .0     942.0       .0        .0     166.1        .0     172.4      38.0 100000.00
      .60       .00      5.67       .00      .000      .050      .000      .000   1135.90   9985.17
  .032891      535.      515.      510.        15        11         0       .00    153.07  10147.35


CCHV=     .300 CEHV=     .500
*SECNO 1.184

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.15


3470 ENCROACHMENT STATIONS=     9897.1   10050.6  TYPE=      1  TARGET=      153.460
    1.184      2.61   1146.11       .00   1146.13   1146.42       .31      6.91       .06   1146.00
    942.0        .0     942.0       .0        .1     210.0        .0     174.7      39.8   1146.00
      .63       .26      4.49       .02      .070      .035      .070      .000   1143.50   9897.30
  .007138      440.      520.      530.         6         0         0       .00    153.24  10050.54


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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 1.224
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9969.5   10043.8  TYPE=      1  TARGET=       74.220

          Q @ X1 = 1.224 TO X1 = 1.723 EQUALS Q AT SUB40
          Q = 525 CFS

          DOWNSTREAM OF CATERPILLAR PROVING GROUND ROAD.

    1.224      2.89   1149.09   1149.09   1149.05   1149.81       .72      1.76       .21   1148.00
    525.0       9.0     491.0      25.0       5.9      69.7      16.3     175.4      40.4   1148.00
      .64      1.52      7.05      1.53      .070      .035      .070      .000   1146.20   9969.54
  .011073      240.      215.      140.        20         8         0       .00     74.22  10043.76


CCHV=     .100 CEHV=     .300
*SECNO 1.282

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.69
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3470 ENCROACHMENT STATIONS=     9945.0   10036.9  TYPE=      1  TARGET=      91.920
    1.282      3.04   1151.44       .00   1151.25   1151.73       .28      1.87       .04   1150.00
    525.0      46.4     458.0      20.6      31.1     101.0      17.9     176.2      41.0   1150.00
      .66      1.49      4.54      1.15      .070      .035      .070      .000   1148.40   9945.00
  .003899      260.      305.      340.         3         0         0       .00     91.92  10036.92


*SECNO 1.373
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9945.3   10050.2  TYPE=      1  TARGET=     104.930
    1.373      1.43   1155.03   1155.03   1155.02   1155.56       .52      3.36       .07   1154.00
    525.0      87.5     428.1       9.4      34.0      67.7       5.3     177.6      42.0   1154.00
      .68      2.58      6.32      1.77      .070      .035      .070      .000   1153.60   9945.29
  .016827      405.      480.      550.         2        14         0       .00    104.93  10050.22


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.424

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.62


3470 ENCROACHMENT STATIONS=     9919.8   10080.5  TYPE=      1  TARGET=     160.750
    1.424      2.64   1158.04       .00   1158.05   1158.22       .18      2.63       .03   1157.70
    525.0     130.2     264.7     130.2      69.4      59.8      69.4     178.6      42.8   1157.70
      .71      1.88      4.43      1.87      .070      .035      .070      .000   1155.40   9919.78
  .006423      290.      270.      225.         5         0         0       .00    160.66  10080.44


*SECNO 1.471

3470 ENCROACHMENT STATIONS=     9915.0   10023.2  TYPE=      1  TARGET=     108.160
    1.471      2.22   1159.32       .00   1159.08   1159.48       .16      1.26       .00   1157.70
    525.0     244.5     280.5        .0     118.4      71.3        .0     179.6      43.5 100000.00
      .73      2.07      3.93       .00      .070      .035      .000      .000   1157.10   9915.00
  .004434      255.      245.      155.         4         0         0       .00    108.16  10023.16


*SECNO 1.527

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .55


3470 ENCROACHMENT STATIONS=     9982.2   10090.5  TYPE=      1  TARGET=     108.279
    1.527      1.48   1161.28       .00   1161.10   1161.65       .37      2.10       .06 100000.00
    525.0        .0     327.1     197.9        .0      56.9      69.2     180.6      44.2   1160.50
      .75       .00      5.75      2.86      .000      .035      .070      .000   1159.80   9982.24
  .014672      255.      295.      290.         2         0         0       .00    108.28  10090.52
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CCHV=     .300 CEHV=     .500
*SECNO 1.562
3685 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.0   10030.1  TYPE=      1  TARGET=      55.149
     1.562      2.36   1163.86   1163.86   1164.03   1164.63       .78      2.77       .21   1162.00
     525.0      21.3     503.7        .0       8.6      69.9        .0     181.0      44.6   1164.00
       .75      2.47      7.21       .00      .070      .035      .000      .000   1161.50   9975.72
   .015420      195.      185.      180.         2        14         0       .00     52.83  10028.55


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.597

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.01


3470 ENCROACHMENT STATIONS=     9907.4   10019.0  TYPE=      1  TARGET=      111.569
     1.597      2.83   1165.93       .00   1165.86   1166.12       .19      1.31       .18   1164.00
     525.0     179.3     345.7        .0     100.0      85.3        .0     181.6      45.0 100000.00
       .77      1.79      4.05       .00      .070      .035      .000      .000   1163.10   9907.40
   .003800      225.      185.       90.         2         0         0       .00    111.57  10018.97


*SECNO 1.631

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9941.5   10016.3  TYPE=      1  TARGET=      74.820
     1.631      2.78   1167.28   1167.28   1167.26   1167.99       .71       .95       .26   1166.00
     525.0      73.2     444.9       6.9      33.1      60.9       4.1     182.1      45.2   1166.00
       .78      2.21      7.30      1.69      .070      .035      .070      .000   1164.50   9941.50
   .011576       75.      180.      225.        20         8         0       .00     74.82  10016.32


*SECNO 1.661

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.63


3470 ENCROACHMENT STATIONS=     9979.5   10036.0  TYPE=      1  TARGET=      56.440
     1.661      3.28   1168.78       .00   1168.80   1169.16       .38      1.07       .10 100000.00
     525.0        .0     468.6      56.4        .0      90.2      29.0     182.5      45.5   1166.00
       .79       .00      5.19      1.95      .000      .035      .070      .000   1165.50   9979.58
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.004365     140.     160.     180.       2       0       0     .00    56.27  10035.85
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 1.723
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9972.6   10016.0  TYPE=      1  TARGET=      43.330

        Q @ X1 = 1.723 TO X1 = 2.616 EQUALS (Q AT SUB40)/2
        Q = 262 CFS

   1.723      1.99   1178.19   1178.19   1178.19   1178.75       .56      2.03       .09   1178.00
   262.0        .1     261.9        .0        .2      43.7        .1     183.1      45.8   1178.00
     .80       .60      6.00       .03      .070      .035      .070      .000   1176.20   9972.62
 .017836      405.      325.      250.        20        14         0       .00     43.33  10015.95

*SECNO 1.762
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.3   10021.8  TYPE=      1  TARGET=      35.550
   1.762      1.94   1182.74   1182.74   1182.74   1183.34       .60      3.67       .02 100000.00
   262.0        .0     262.0        .0        .0      42.2        .0     183.3      46.0 100000.00
     .81       .00      6.20       .00      .000      .035      .000      .000   1180.80   9986.30
 .017153      230.      210.      130.         5         8         0       .00     35.55  10021.85

*SECNO 1.811
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.3   10020.5  TYPE=      1  TARGET=      41.120
   1.811      2.09   1190.09   1190.09   1190.09   1190.65       .56      4.49       .01   1190.00
   262.0        .0     262.0        .0        .0      43.5        .0     183.5      46.2   1190.00
     .82       .03      6.02       .03      .070      .035      .070      .000   1188.00   9979.34
 .018079      185.      255.      305.         5         8         0       .00     41.10  10020.44

*SECNO 1.855
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
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```
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


0 ENCROACHMENT STATIONS=     9987.2   10030.3  TYPE=      1  TARGET=       43.061
    1.855      2.57   1196.57   1196.57   1196.56   1197.20       .63      3.76       .03 100000.00
    262.0        .0     257.0       5.0        .0      40.1       4.5     183.8      46.5   1196.00
      .83       .00      6.42      1.12      .000      .035      .070      .000   1194.00   9987.22
  .014290      215.      235.      210.        20        11         0       .00     43.06  10030.28


CCHV=     .100 CEHV=     .300
*SECNO 1.918
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.5   10014.4  TYPE=      1  TARGET=       25.900
    1.918      2.37   1207.77   1207.77   1207.75   1208.64       .86      4.40       .07   1206.00
    262.0      12.8     240.9       8.3       5.9      31.1       3.9     184.1      46.7   1206.00
      .84      2.17      7.74      2.11      .070      .035      .070      .000   1205.40   9988.46
  .012621      390.      330.      190.        20        11         0       .00     25.90  10014.36


*SECNO 1.951
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.2   10019.8  TYPE=      1  TARGET=       31.600
    1.951      2.50   1215.30   1215.30   1215.31   1215.97       .66      2.58       .02 100000.00
    262.0        .0     262.0        .0        .0      40.1        .0     184.2      46.8 100000.00
      .85       .00      6.53       .00      .000      .035      .000      .000   1212.80   9988.26
  .017470      175.      175.      170.        20         8         0       .00     31.52  10019.78


*SECNO 2.005
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9984.0   10009.0  TYPE=      1  TARGET=       25.050
    2.005      2.30   1227.60   1227.60   1227.61   1228.37       .77      4.84       .03 100000.00
    262.0        .0     262.0        .0        .0      37.3        .0     184.5      47.0 100000.00
      .86       .00      7.02       .00      .000      .035      .000      .000   1225.30   9983.99
  .016545      240.      285.      315.        20        11         0       .00     25.02  10009.01


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   20MAY92      13:55:05                                                                          PAGE    30


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 2.046
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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3470 ENCROACHMENT STATIONS=     9992.2   10012.8  TYPE=      1  TARGET=      20.680
     2.046      3.13   1241.13   1241.13   1241.13   1241.99       .86      3.59       .03 100000.00
     262.0        .0     262.0       .0        .0      35.2        .0     184.7      47.1 100000.00
       .87       .00      7.44       .00      .000      .035      .000      .000   1238.00   9992.17
   .016117      200.      220.      265.        20        11         0       .00     20.66  10012.83


*SECNO 2.095
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.7   10011.6  TYPE=      1  TARGET=      29.920
     2.095      2.36   1260.66   1260.66   1260.66   1261.39       .73      4.01       .01   1260.00
     262.0       1.4     260.0        .7       1.1      37.8        .5     184.9      47.3   1260.00
       .88      1.25      6.88      1.20      .070      .035      .070      .000   1258.30   9981.72
   .015336      260.      255.      240.        20        19         0       .00     29.92  10011.64


*SECNO 2.140
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.3   10015.8  TYPE=      1  TARGET=      73.480
     2.140      1.48   1276.78   1276.78   1276.77   1277.21       .43      3.75       .03   1276.00
     262.0      58.4     200.3       3.3      26.4      33.8       2.3     185.2      47.5   1276.00
       .89      2.21      5.92      1.46      .070      .035      .070      .000   1275.30   9942.30
   .016584      200.      240.      250.        20        14         0       .00     73.48  10015.78


*SECNO 2.220
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9982.5   10019.2  TYPE=      1  TARGET=      36.729
     2.220      2.34   1306.34   1306.34   1306.34   1306.99       .65      6.81       .06   1306.00
     262.0        .4     261.0        .6        .4      40.3        .7     185.6      48.0   1306.00
       .91       .83      6.48       .83      .070      .035      .070      .000   1304.00   9982.48
   .015903      420.      420.      325.        20        14         0       .00     36.73  10019.21


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  20MAY92      13:55:05                                                                          PAGE   31


   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 2.275
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9984.2   10016.7  TYPE=      1  TARGET=      32.420
     2.275      2.42   1330.22   1330.22   1330.22   1330.90       .68      4.74       .01   1330.00
     262.0        .0     261.9        .1        .1      39.7        .2     185.9      48.3   1330.00
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      .92       .03      6.60       .64      .070      .035      .070      .000   1327.80   9984.23
   .016850      300.      290.      205.        20         8         0       .00     32.42  10016.65


*SECNO 2.346
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.8   10010.1  TYPE=      1  TARGET=      34.320
     2.346      2.42   1376.42   1376.42   1376.42   1377.04       .62      6.45       .01 100000.00
     262.0        .0     262.0        .0        .0      41.3        .0     186.3      48.5 100000.00
       .94       .00      6.34       .00      .000      .035      .000      .000   1374.00   9975.84
   .017585      295.      375.      380.        20         5         0       .00     34.23  10010.07


*SECNO 2.399
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9964.2   10007.2  TYPE=      1  TARGET=      42.990
     2.399      2.07   1419.17   1419.17   1419.18   1419.71       .54      5.06       .01 100000.00
     262.0        .0     262.0        .0        .0      44.5        .0     186.5      48.8 100000.00
       .95       .00      5.89       .00      .000      .035      .000      .000   1417.10   9964.26
   .018574      275.      280.      280.        20        15         0       .00     42.89  10007.15


*SECNO 2.466
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.1   10013.9  TYPE=      1  TARGET=      27.881
     2.466      2.79   1482.79   1482.79   1482.79   1483.49       .71      6.25       .05 100000.00
     262.0        .0     262.0        .0        .0      38.8        .0     186.9      49.1 100000.00
       .97       .00      6.76       .00      .000      .035      .000      .000   1480.00   9986.07
   .016710      345.      355.      355.        20        11         0       .00     27.85  10013.92


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   20MAY92      13:55:05                                                                          PAGE    32


    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 2.524
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9989.2   10018.8  TYPE=      1  TARGET=      29.600
     2.524      2.67   1547.67   1547.67   1547.69   1548.36       .69      5.17       .00 100000.00
     262.0        .0     262.0        .0        .0      39.3        .0     187.2      49.3 100000.00
       .98       .00      6.67       .00      .000      .035      .000      .000   1545.00   9989.31
   .017168      270.      305.      310.        20        11         0       .00     29.40  10018.71
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*SECNO 2.616
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.9   10016.7  TYPE=      1  TARGET=      27.790
     2.616      2.77   1677.77   1677.77   1677.78   1678.49       .72      8.40       .01 100000.00
     262.0       .0     262.0       .0        .0      38.4        .0     187.6      49.6 100000.00
      1.00       .00      6.81       .00      .000      .035      .000      .000   1675.00   9988.91
   .017120      450.      490.      520.        20         8         0       .00     27.73  10016.64


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   20MAY92      13:55:05                                                                          PAGE   33


                                                                    THIS RUN EXECUTED 20MAY92    13:55:46
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


BULLDOZER WASH - WASH "5

SUMMARY PRINTOUT
```

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	6601.00	1100.98	9920.10	9950.00	10025.00	10079.80	.00	159.70	5.98	1095.00	84.87	12.16
	.000	6601.00	1100.98	9920.10	9950.00	10025.00	10079.80	.00	159.70	5.98	1095.00	84.87	12.16
*	.009	6601.00	1103.43	9876.21	9930.00	10110.00	10471.73	2.45	595.52	8.43	1095.00	3.18	3.01
*	.009	6601.00	1103.43	9876.21	9930.00	10110.00	10471.73	2.45	595.52	8.43	1095.00	3.18	3.01
*	.062	6601.00	1103.56	9538.22	9825.00	10110.00	10388.71	.14	850.49	32.06	1071.50	.05	.78
*	.062	6601.00	1103.56	9538.22	9825.00	10110.00	10388.72	.14	850.50	32.06	1071.50	.05	.78
*	.120	6601.00	1103.55	9602.23	9935.00	10070.00	10196.36	-.01	594.13	27.55	1076.00	.29	1.41
*	.120	6601.00	1103.55	9602.23	9935.00	10070.00	10196.36	-.01	594.13	27.55	1076.00	.29	1.41
*	.178	1250.00	1103.61	9933.72	9970.00	10030.00	10125.31	.06	191.60	2.41	1101.20	237.26	7.30
*	.178	1250.00	1103.63	9933.72	9970.00	10030.00	10125.31	.08	191.59	2.43	1101.20	227.74	7.19
*	.274	1250.00	1106.31	9839.45	9950.00	10055.00	10173.41	2.70	333.95	3.11	1103.20	16.49	2.29
*	.274	1250.00	1106.74	9950.00	9950.00	10055.00	10173.41	3.10	223.41	3.54	1103.20	21.72	2.85
*	.367	1250.00	1107.68	9694.56	9960.00	10035.00	10063.95	1.37	369.39	2.28	1105.40	61.83	3.35
	.367	1250.00	1108.26	9840.00	9960.00	10035.00	10063.95	1.53	223.95	2.86	1105.40	50.41	3.67
*	.456	1250.00	1109.69	9658.94	9880.00	10090.00	10081.34	2.01	422.41	2.29	1107.40	29.19	2.11
	.456	1250.00	1110.19	9825.00	9880.00	10090.00	10081.35	1.93	256.35	2.79	1107.40	32.00	2.67
*	.602	1250.00	1113.97	9785.61	9940.00	10055.00	10534.23	4.28	748.63	1.37	1112.60	189.04	4.59
*	.602	1250.00	1114.24	9785.63	9940.00	10055.00	10175.00	4.05	389.37	1.64	1112.60	110.42	4.02

*	.705	942.00	1119.87	9941.95	9935.00	10045.00	10563.32	5.91	598.74	1.07	1118.80	657.14	5.03
*	.705	942.00	1120.36	9928.30	9935.00	10045.00	10290.00	6.13	361.70	1.56	1118.80	177.20	3.84
	.801	942.00	1126.66	9970.63	9980.00	10035.00	10370.00	6.78	399.37	2.36	1124.30	54.90	3.02
	.801	942.00	1127.08	9975.49	9980.00	10035.00	10150.00	6.72	174.51	2.78	1124.30	106.43	4.91

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20MAY92 13:55:05 PAGE 34

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.902	942.00	1131.33	9950.02	9945.00	10070.00	10066.66	4.68	116.64	1.83	1129.50	214.33	5.57
	.902	942.00	1131.85	9946.25	9945.00	10070.00	10069.17	4.78	122.92	2.35	1129.50	79.93	4.05
*	.988	942.00	1134.71	9972.87	9980.00	10140.00	10143.57	3.38	170.70	2.71	1132.00	31.27	2.75
	.988	942.00	1134.54	9974.62	9980.00	10140.00	10142.69	2.68	168.08	2.54	1132.00	41.66	3.00
*	1.085	942.00	1138.92	9985.29	9980.00	10150.00	10147.29	4.20	152.25	3.02	1135.90	367.92	5.88
*	1.085	942.00	1138.95	9985.17	9980.00	10150.00	10147.35	4.42	153.07	3.05	1135.90	328.91	5.67
*	1.184	942.00	1146.13	9896.77	9900.00	10050.00	10050.65	7.21	153.87	2.63	1143.50	67.92	4.42
*	1.184	942.00	1146.11	9897.30	9900.00	10050.00	10050.54	7.15	153.24	2.61	1143.50	71.38	4.49
*	1.224	525.00	1149.05	9969.55	9980.00	10015.00	10043.74	2.92	74.19	2.85	1146.20	121.17	7.26
*	1.224	525.00	1149.09	9969.54	9980.00	10015.00	10043.76	2.98	74.22	2.89	1146.20	110.73	7.05
*	1.282	525.00	1151.25	9848.74	9970.00	10015.00	10036.92	2.21	188.19	2.85	1148.40	27.59	3.60
*	1.282	525.00	1151.44	9945.00	9970.00	10015.00	10036.92	2.35	91.92	3.04	1148.40	38.99	4.54
*	1.373	525.00	1155.02	9945.29	9985.00	10040.00	10050.22	3.77	104.92	1.42	1153.60	172.63	6.38
*	1.373	525.00	1155.03	9945.29	9985.00	10040.00	10050.22	3.59	104.93	1.43	1153.60	168.27	6.32
*	1.424	525.00	1158.05	9919.75	9980.00	10020.00	10080.50	3.03	160.75	2.65	1155.40	63.36	4.41
*	1.424	525.00	1158.04	9919.78	9980.00	10020.00	10080.44	3.01	160.66	2.64	1155.40	64.23	4.43
*	1.471	525.00	1159.08	9826.84	9980.00	10030.00	10023.16	1.04	196.31	1.98	1157.10	25.23	2.69
	1.471	525.00	1159.32	9915.00	9980.00	10030.00	10023.16	1.28	108.16	2.22	1157.10	44.34	3.93
*	1.527	525.00	1161.10	9982.24	9980.00	10030.00	10090.52	2.02	108.28	1.30	1159.80	246.19	6.73
*	1.527	525.00	1161.28	9982.24	9980.00	10030.00	10090.52	1.96	108.28	1.48	1159.80	146.72	5.75
*	1.562	525.00	1164.03	9974.95	9985.00	10030.00	10030.10	2.92	55.16	2.53	1161.50	114.58	6.50
*	1.562	525.00	1163.86	9975.72	9985.00	10030.00	10028.55	2.58	52.83	2.36	1161.50	154.20	7.21
*	1.597	525.00	1165.86	9907.40	9975.00	10020.00	10018.97	1.83	111.57	2.76	1163.10	42.98	4.22
*	1.597	525.00	1165.93	9907.40	9975.00	10020.00	10018.97	2.08	111.57	2.83	1163.10	38.00	4.05
*	1.631	525.00	1167.26	9941.50	9980.00	10010.00	10016.32	1.41	74.82	2.76	1164.50	119.81	7.38
*	1.631	525.00	1167.28	9941.50	9980.00	10010.00	10016.32	1.35	74.82	2.78	1164.50	115.76	7.30
*	1.661	525.00	1168.80	9979.52	9975.00	10015.00	10035.96	1.53	56.43	3.30	1165.50	42.87	5.16
*	1.661	525.00	1168.78	9979.58	9975.00	10015.00	10035.85	1.50	56.27	3.28	1165.50	43.65	5.19
	1.723	262.00	1178.19	9972.62	9975.00	10015.00	10015.95	9.39	43.33	1.99	1176.20	179.30	6.00
	1.723	262.00	1178.19	9972.62	9975.00	10015.00	10015.95	9.41	43.33	1.99	1176.20	178.36	6.00
*	1.762	262.00	1182.74	9986.30	9975.00	10030.00	10021.85	4.55	35.55	1.94	1180.80	171.75	6.20
*	1.762	262.00	1182.74	9986.30	9975.00	10030.00	10021.85	4.55	35.55	1.94	1180.80	171.53	6.20
*	1.811	262.00	1190.09	9979.33	9980.00	10020.00	10020.45	7.35	41.12	2.09	1188.00	179.85	6.01

*	1.811	262.00	1190.09	9979.34	9980.00	10020.00	10020.44	7.35	41.10	2.09	1188.00	180.79	6.02

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	1.855	262.00	1196.56	9987.22	9980.00	10015.00	10030.28	6.47	43.06	2.56	1194.00	147.92	6.49
*	1.855	262.00	1196.57	9987.22	9980.00	10015.00	10030.28	6.48	43.06	2.57	1194.00	142.90	6.42
*	1.918	262.00	1207.75	9988.46	9995.00	10010.00	10014.36	11.19	25.91	2.35	1205.40	132.93	7.87
*	1.918	262.00	1207.77	9988.46	9995.00	10010.00	10014.36	11.20	25.90	2.37	1205.40	126.21	7.74
*	1.951	262.00	1215.31	9988.23	9985.00	10025.00	10019.83	7.57	31.61	2.51	1212.80	172.07	6.50
*	1.951	262.00	1215.30	9988.26	9985.00	10025.00	10019.78	7.53	31.52	2.50	1212.80	174.70	6.53
*	2.005	262.00	1227.61	9983.97	9975.00	10025.00	10009.02	12.30	25.04	2.31	1225.30	164.27	7.00
*	2.005	262.00	1227.60	9983.99	9975.00	10025.00	10009.01	12.30	25.02	2.30	1225.30	165.45	7.02
*	2.046	262.00	1241.13	9992.16	9980.00	10025.00	10012.84	13.53	20.67	3.13	1238.00	160.63	7.44
*	2.046	262.00	1241.13	9992.17	9980.00	10025.00	10012.83	13.53	20.66	3.13	1238.00	161.17	7.44
*	2.095	262.00	1260.66	9981.72	9985.00	10010.00	10011.64	19.52	29.92	2.36	1258.30	155.41	6.91
*	2.095	262.00	1260.66	9981.72	9985.00	10010.00	10011.64	19.53	29.92	2.36	1258.30	153.36	6.88
*	2.140	262.00	1276.77	9942.30	9980.00	10010.00	10015.78	16.11	73.48	1.47	1275.30	170.37	5.97
*	2.140	262.00	1276.78	9942.30	9980.00	10010.00	10015.78	16.12	73.48	1.48	1275.30	165.84	5.92
*	2.220	262.00	1306.34	9982.48	9985.00	10015.00	10019.21	29.57	36.73	2.34	1304.00	161.63	6.51
	2.220	262.00	1306.34	9982.48	9985.00	10015.00	10019.21	29.56	36.73	2.34	1304.00	159.03	6.48
*	2.275	262.00	1330.22	9984.23	9985.00	10015.00	10016.65	23.88	32.42	2.42	1327.80	169.76	6.61
*	2.275	262.00	1330.22	9984.23	9985.00	10015.00	10016.65	23.88	32.42	2.42	1327.80	168.50	6.60
*	2.346	262.00	1376.42	9975.77	9960.00	10025.00	10010.09	46.20	34.32	2.42	1374.00	173.35	6.30
*	2.346	262.00	1376.42	9975.84	9960.00	10025.00	10010.07	46.19	34.23	2.42	1374.00	175.85	6.34
*	2.399	262.00	1419.18	9964.18	9950.00	10010.00	10007.16	42.75	42.98	2.08	1417.10	183.58	5.87
*	2.399	262.00	1419.17	9964.26	9950.00	10010.00	10007.15	42.76	42.89	2.07	1417.10	185.74	5.89
*	2.466	262.00	1482.79	9986.06	9980.00	10020.00	10013.94	63.61	27.87	2.79	1480.00	166.46	6.75
*	2.466	262.00	1482.79	9986.07	9980.00	10020.00	10013.92	63.61	27.85	2.79	1480.00	167.10	6.76
*	2.524	262.00	1547.69	9989.24	9980.00	10035.00	10018.84	64.90	29.60	2.69	1545.00	165.37	6.58
*	2.524	262.00	1547.67	9989.31	9980.00	10035.00	10018.71	64.89	29.40	2.67	1545.00	171.68	6.67
*	2.616	262.00	1677.78	9988.88	9980.00	10030.00	10016.67	130.09	27.79	2.78	1675.00	169.27	6.79
*	2.616	262.00	1677.77	9988.91	9980.00	10030.00	10016.64	130.10	27.73	2.77	1675.00	171.20	6.81

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BULLDOZER WASH - WASH "5

MARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
.000	1100.98	.00	1102.92	159.70	528.63	4995.74	1076.63	.00	.00	9950.00	10025.00	.00

	.000	1100.98	.00	1102.92	159.70	528.63	4995.74	1076.63	160.75	9919.75	9950.00	10025.00	10080.50
*	.009	1103.43	.00	1103.54	595.52	369.32	4292.61	1939.07	.00	.00	9930.00	10110.00	.00
*	.009	1103.43	.00	1103.54	595.52	369.32	4292.61	1939.07	615.58	9870.31	9930.00	10110.00	10485.89
*	.062	1103.56	.00	1103.57	850.49	832.70	5525.92	242.38	.00	.00	9825.00	10110.00	.00
*	.062	1103.56	.00	1103.57	850.50	832.70	5525.92	242.38	884.70	9535.00	9825.00	10110.00	10419.70
*	.120	1103.55	.00	1103.58	594.13	914.64	4976.10	710.26	.00	.00	9935.00	10070.00	.00
*	.120	1103.55	.00	1103.58	594.13	914.64	4976.10	710.26	598.29	9601.71	9935.00	10070.00	10200.00
*	.178	1103.61	.00	1104.24	191.60	82.81	880.99	286.20	.00	.00	9970.00	10030.00	.00
*	.178	1103.63	.02	1104.24	191.59	84.24	876.45	289.31	191.59	9933.72	9970.00	10030.00	10125.31
*	.274	1106.31	.00	1106.37	333.95	421.36	631.51	197.12	.00	.00	9950.00	10055.00	.00
*	.274	1106.74	.43	1106.84	223.41	.00	911.04	338.96	223.41	9950.00	9950.00	10055.00	10173.41
*	.367	1107.68	.00	1107.79	369.39	811.62	430.35	8.03	.00	.00	9960.00	10035.00	.00
*	.367	1108.26	.58	1108.41	223.95	581.07	631.43	37.50	223.95	9840.00	9960.00	10035.00	10063.95
*	.456	1109.69	.00	1109.74	422.41	612.06	637.94	.00	.00	.00	9880.00	10090.00	.00
	.456	1110.19	.50	1110.29	256.35	172.70	1077.29	.00	256.35	9825.00	9880.00	10090.00	10081.35
*	.602	1113.97	.00	1114.16	748.63	133.75	626.97	489.28	.00	.00	9940.00	10055.00	.00
*	.602	1114.24	.27	1114.41	389.37	214.27	674.17	361.56	389.37	9785.63	9940.00	10055.00	10175.00
*	.705	1119.87	.00	1120.09	598.74	.00	264.52	677.48	.00	.00	9935.00	10045.00	.00
*	.705	1120.36	.49	1120.52	361.70	1.69	405.00	535.31	361.70	9928.30	9935.00	10045.00	10290.00
*	.801	1126.66	.00	1126.73	399.37	2.30	267.89	671.82	.00	.00	9980.00	10035.00	.00
	.801	1127.08	.42	1127.34	174.51	7.64	546.47	387.89	174.51	9975.49	9980.00	10035.00	10150.00
*	.902	1131.33	.00	1131.81	116.64	.00	942.00	.00	.00	.00	9945.00	10070.00	.00
	.902	1131.85	.52	1132.11	122.92	.00	942.00	.00	122.92	9946.25	9945.00	10070.00	10069.17
*	.988	1134.71	.00	1134.83	170.70	1.51	939.74	.75	.00	.00	9980.00	10140.00	.00
	.988	1134.54	-.17	1134.68	168.08	.83	940.77	.41	168.26	9974.52	9980.00	10140.00	10142.78
*	1.085	1138.92	.00	1139.45	152.25	.00	942.00	.00	.00	.00	9980.00	10150.00	.00
*	1.085	1138.95	.04	1139.45	153.07	.00	942.00	.00	162.18	9985.17	9980.00	10150.00	10147.35
*	1.184	1146.13	.00	1146.43	153.87	.06	941.94	.00	.00	.00	9900.00	10050.00	.00
*	1.184	1146.11	-.02	1146.42	153.24	.04	941.96	.00	153.46	9897.12	9900.00	10050.00	10050.58
*	1.224	1149.05	.00	1149.82	74.19	8.25	494.00	22.75	.00	.00	9980.00	10015.00	.00
*	1.224	1149.09	.05	1149.81	74.22	9.04	490.96	24.99	74.22	9969.54	9980.00	10015.00	10043.76

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.282	1151.25	.00	1151.39	188.19	181.68	332.12	11.20	.00	.00	9970.00	10015.00	.00
*	1.282	1151.44	.19	1151.73	91.92	46.39	457.97	20.63	91.92	9945.00	9970.00	10015.00	10036.92
	1.373	1155.02	.00	1155.56	104.92	87.23	428.49	9.28	.00	.00	9985.00	10040.00	.00
*	1.373	1155.03	.01	1155.56	104.93	87.52	428.06	9.41	104.93	9945.29	9985.00	10040.00	10050.22
*	1.424	1158.05	.00	1158.23	160.75	130.27	264.46	130.27	.00	.00	9980.00	10020.00	.00
*	1.424	1158.04	-.01	1158.22	160.66	130.16	264.69	130.16	160.75	9919.75	9980.00	10020.00	10080.50

*	1.471	1159.08	.00	1159.14	196.31	360.32	164.68	.00	.00	.00	9980.00	10030.00	.00
	1.471	1159.32	.24	1159.48	108.16	244.53	280.47	.00	108.16	9915.00	9980.00	10030.00	10023.16
*	1.527	1161.10	.00	1161.61	108.28	.00	327.88	197.12	.00	.00	9980.00	10030.00	.00
	1.527	1161.28	.17	1161.65	108.28	.00	327.13	197.87	108.28	9982.24	9980.00	10030.00	10090.52
*	1.562	1164.03	.00	1164.66	55.16	23.21	501.79	.00	.00	.00	9985.00	10030.00	.00
*	1.562	1163.86	-.17	1164.63	52.83	21.30	503.70	.00	55.15	9974.95	9985.00	10030.00	10030.10
*	1.597	1165.86	.00	1166.06	111.57	177.60	347.40	.00	.00	.00	9975.00	10020.00	.00
*	1.597	1165.93	.08	1166.12	111.57	179.25	345.75	.00	111.57	9907.40	9975.00	10020.00	10018.97
*	1.631	1167.26	.00	1167.99	74.82	72.13	446.12	6.74	.00	.00	9980.00	10010.00	.00
*	1.631	1167.28	.02	1167.99	74.82	73.17	444.90	6.93	74.82	9941.50	9980.00	10010.00	10016.32
*	1.661	1168.80	.00	1169.17	56.43	.00	468.34	56.66	.00	.00	9975.00	10015.00	.00
*	1.661	1168.78	-.01	1169.16	56.27	.00	468.65	56.35	56.44	9979.52	9975.00	10015.00	10035.96
*	1.723	1178.19	.00	1178.75	43.33	.13	261.86	.00	.00	.00	9975.00	10015.00	.00
*	1.723	1178.19	.00	1178.75	43.33	.14	261.86	.00	43.33	9972.62	9975.00	10015.00	10015.95
*	1.762	1182.74	.00	1183.34	35.55	.00	262.00	.00	.00	.00	9975.00	10030.00	.00
*	1.762	1182.74	.00	1183.34	35.55	.00	262.00	.00	35.55	9986.30	9975.00	10030.00	10021.85
*	1.811	1190.09	.00	1190.65	41.12	.00	262.00	.00	.00	.00	9980.00	10020.00	.00
*	1.811	1190.09	.00	1190.65	41.10	.00	262.00	.00	41.12	9979.33	9980.00	10020.00	10020.45
*	1.855	1196.56	.00	1197.20	43.06	.00	257.33	4.67	.00	.00	9980.00	10015.00	.00
*	1.855	1196.57	.01	1197.20	43.06	.00	257.02	4.98	43.06	9987.22	9980.00	10015.00	10030.28
	1.918	1207.75	.00	1208.64	25.91	12.48	241.42	8.10	.00	.00	9995.00	10010.00	.00
*	1.918	1207.77	.03	1208.64	25.90	12.81	240.88	8.30	25.90	9988.46	9995.00	10010.00	10014.36
*	1.951	1215.31	.00	1215.97	31.61	.00	262.00	.00	.00	.00	9985.00	10025.00	.00
*	1.951	1215.30	-.01	1215.97	31.52	.00	262.00	.00	31.60	9988.23	9985.00	10025.00	10019.83
*	2.005	1227.61	.00	1228.37	25.04	.00	262.00	.00	.00	.00	9975.00	10025.00	.00
*	2.005	1227.60	.00	1228.37	25.02	.00	262.00	.00	25.05	9983.97	9975.00	10025.00	10009.02
*	2.046	1241.13	.00	1241.99	20.67	.00	262.00	.00	.00	.00	9980.00	10025.00	.00
*	2.046	1241.13	.00	1241.99	20.66	.00	262.00	.00	20.68	9992.16	9980.00	10025.00	10012.84

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.095	1260.66	.00	1261.39	29.92	1.33	260.02	.64	.00	.00	9985.00	10010.00	.00
*	2.095	1260.66	.01	1261.39	29.92	1.36	259.98	.66	29.92	9981.72	9985.00	10010.00	10011.64
*	2.140	1276.77	.00	1277.21	73.48	58.11	200.65	3.24	.00	.00	9980.00	10010.00	.00
*	2.140	1276.78	.01	1277.21	73.48	58.39	200.31	3.30	73.48	9942.30	9980.00	10010.00	10015.78
*	2.220	1306.34	.00	1306.99	36.73	.35	261.07	.58	.00	.00	9985.00	10015.00	.00
	2.220	1306.34	.01	1306.99	36.73	.37	261.02	.61	36.73	9982.48	9985.00	10015.00	10019.21
*	2.275	1330.22	.00	1330.90	32.42	.00	261.88	.12	.00	.00	9985.00	10015.00	.00
*	2.275	1330.22	.00	1330.90	32.42	.00	261.88	.12	32.42	9984.23	9985.00	10015.00	10016.65
*	2.346	1376.42	.00	1377.04	34.32	.00	262.00	.00	.00	.00	9960.00	10025.00	.00
*	2.346	1376.42	-.01	1377.04	34.23	.00	262.00	.00	34.32	9975.77	9960.00	10025.00	10010.09

*	2.399	1419.18	.00	1419.71	42.98	.00	262.00	.00	.00	.00	9950.00	10010.00	.00
*	2.399	1419.17	.00	1419.71	42.89	.00	262.00	.00	42.99	9964.18	9950.00	10010.00	10007.17
	2.466	1482.79	.00	1483.49	27.87	.00	262.00	.00	.00	.00	9980.00	10020.00	.00
*	2.466	1482.79	.00	1483.49	27.85	.00	262.00	.00	27.88	9986.06	9980.00	10020.00	10013.94
*	2.524	1547.69	.00	1548.36	29.60	.00	262.00	.00	.00	.00	9980.00	10035.00	.00
*	2.524	1547.67	-.02	1548.36	29.40	.00	262.00	.00	29.60	9989.24	9980.00	10035.00	10018.84
*	2.616	1677.78	.00	1678.49	27.79	.00	262.00	.00	.00	.00	9980.00	10030.00	.00
*	2.616	1677.77	-.01	1678.49	27.73	.00	262.00	.00	27.79	9988.88	9980.00	10030.00	10016.67

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SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .009  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .009  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .062  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .062  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .120  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .120  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .178  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .178  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .178  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .178  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .178  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .178  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .274  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .274  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .367  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .367  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .602  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .602  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .705  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .705  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=      .705  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .801  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .902  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .988  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.085  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.085  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     1.085  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      1.184  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.184  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.224  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.224  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.224  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.224  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.224  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.224  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
1
   20MAY92      13:55:05                                                          PAGE   40


WARNING SECNO=      1.282  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.282  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.373  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.373  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.373  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.373  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.373  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      1.424  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.424  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.471  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.527  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.527  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.527  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=      1.527  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.562  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=      1.562  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.562  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      1.597  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.597  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.631  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.631  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.631  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.631  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.631  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.631  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      1.661  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.661  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.723  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.723  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.723  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.723  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.723  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.723  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.762  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.762  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.762  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.762  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=      1.811  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.811  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.811  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.811  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.855  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      1.855  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.855  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.855  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.855  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.855  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.918  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.918  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.918  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.918  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.918  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.918  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      1.951  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.951  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.951  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      1.951  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.951  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.951  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.005  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.005  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.005  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.005  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.005  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.005  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.046  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.046  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.046  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.046  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.046  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.046  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.095  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.095  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.095  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.095  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.095  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.095  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.140  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.140  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.140  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.140  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.140  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.140  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.220  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.220  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.220  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      2.220  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.220  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.220  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      2.275  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.275  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.275  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.275  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.275  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.275  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.346  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.346  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.346  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.346  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.346  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.346  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.399  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.399  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.399  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.399  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.399  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.399  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.466  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.466  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.466  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.466  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.466  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.466  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.524  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.524  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.524  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.524  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.524  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.524  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.616  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.616  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.616  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.616  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.616  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.616  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA,   BULLDOZER WASH - WASH "5
PROFILE NO.  2

            ------- FLOODWAY -------      WATER SURFACE ELEVATION
  STATION   WIDTH   SECTION    MEAN      WITH    WITHOUT  DIFFERENCE
                     AREA    VELOCITY  FLOODWAY  FLOODWAY
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.000	160.	632.	10.4	1101.0	1101.0	.0
.009	596.	2678.	2.5	1103.4	1103.4	.0
.062	850.	10289.	.6	1103.6	1103.6	.0
.120	594.	6785.	1.0	1103.6	1103.6	.0
.178	192.	242.	5.2	1103.6	1103.6	.0
.274	223.	540.	2.3	1106.7	1106.3	.4
.367	224.	442.	2.8	1108.3	1107.7	.6
.456	256.	503.	2.5	1110.2	1109.7	.5
.602	389.	428.	2.9	1114.3	1114.0	.3
.705	362.	317.	3.0	1120.4	1119.9	.5
.801	175.	263.	3.6	1127.1	1126.7	.4
.902	123.	232.	4.1	1131.8	1131.3	.5
.988	168.	316.	3.0	1134.5	1134.7	-.2
1.085	162.	166.	5.7	1138.9	1138.9	.0
1.184	153.	210.	4.5	1146.1	1146.1	.0
1.224	74.	92.	5.7	1149.0	1149.0	.0
1.282	92.	150.	3.5	1151.5	1151.3	.2
1.373	105.	107.	4.9	1155.0	1155.0	.0
1.424	161.	199.	2.6	1158.0	1158.0	.0
1.471	108.	190.	2.8	1159.3	1159.1	.2
1.527	108.	126.	4.2	1161.3	1161.1	.2
1.562	53.	78.	6.7	1163.8	1164.0	-.2
1.597	112.	185.	2.8	1166.0	1165.9	.1
1.631	75.	98.	5.3	1167.3	1167.3	.0
1.661	56.	119.	4.4	1168.8	1168.8	.0
1.723	43.	44.	6.0	1178.2	1178.2	.0
1.762	36.	42.	6.2	1182.7	1182.7	.0
1.811	41.	44.	6.0	1190.1	1190.1	.0
1.855	43.	45.	5.9	1196.6	1196.6	.0
1.918	26.	41.	6.4	1207.7	1207.7	.0
1.951	32.	40.	6.5	1215.3	1215.3	.0
2.005	25.	37.	7.0	1227.6	1227.6	.0
2.046	21.	35.	7.4	1241.1	1241.1	.0
2.095	30.	39.	6.6	1260.7	1260.7	.0
2.140	73.	62.	4.2	1276.8	1276.8	.0
2.220	37.	41.	6.3	1306.3	1306.3	.0
2.275	32.	40.	6.6	1330.2	1330.2	.0
2.346	34.	41.	6.3	1376.4	1376.4	.0
2.399	43.	44.	5.9	1419.2	1419.2	.0
2.466	28.	39.	6.8	1482.8	1482.8	.0
2.524	29.	39.	6.7	1547.7	1547.7	.0
2.616	28.	38.	6.8	1677.8	1677.8	.0