
THIS RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CODE = 01 02 01
MODIFICATION = 50 51 52 53

29

PHILS CREEK

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

29

PHILS CR.

T1 ORANGE CO FIA STUDY
 T2 PHILS CREEK
 T3 10 YR NATURAL PROFILE

J1 ICHECK INU WINV IDIR STRI METRIC HVINS U WSEL FU

0. 2. 0. 0. 0.003300 0.00 0.0 0. 347.000 0.000

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBN CHNIM ITRACE

1.000 0.000 -1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 3.000 42.000 41.000 4.000 0.000 38.000 1.000 13.000

14.000 15.000 55.000 20.000 56.000 0.000 150.000 201.000 0.000 0.000

HC 0.120 0.120 0.060 0.100 0.300 0.000 0.000 0.000 0.000 0.000 0.000

HT 5.000 1335.000 2620.000 3390.000 5910.000 3390.000 0.000 0.000 0.000 0.000 0.000

X1 4500.000 13.000 975.000 1075.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

GR 370.000 740.000 360.000 790.000 350.000 860.000 345.000 975.000 344.000 1000.000

GR 339.000 1005.000 338.300 1025.000 339.000 1045.000 344.000 1050.000 345.000 1075.000

GR 350.000 1500.000 360.000 1760.000 370.000 1840.000 0.000 0.000 0.000 0.000

UT 5.000 1250.000 2466.000 3190.000 5560.000 3190.000 0.000 0.000 0.000 0.000

X1 4700.000 11.000 1000.000 1050.000 200.000 200.000 200.000 0.000 0.000 0.000

GR 370.000 700.000 360.000 770.000 350.000 870.000 345.000 1000.000 340.000 1005.000

GR 336.900 1025.000 340.000 1045.000 345.000 1050.000 350.000 1150.000 360.000 1290.000

GR 370.000 1490.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 5000.000 11.000 1000.000 1050.000 300.000 300.000 300.000 0.000 0.000 0.000

GR 370.000 740.000 360.000 790.000 350.000 980.000 346.000 1000.000 341.000 1005.000

GR 339.900 1025.000 341.000 1045.000 346.000 1050.000 350.000 1100.000 360.000 1280.000

GR 370.000 1350.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 5150.000 11.000 1000.000 1050.000 150.000 150.000 150.000 0.000 0.000 0.000

GR 370.000 820.000 360.000 950.000 350.000 990.000 347.000 1000.000 341.000 1005.000

GR 340.000 1025.000 341.000 1045.000 347.000 1050.000 350.000 1000.000 360.000 1110.000

GR 370.000 1370.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

GR 370.000 1370.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

ONE-1 JONES FERRY RD. SR-1942

X1	5210.000	12.000	990.000	1064.000	60.000	60.000	60.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	353.500	353.500	0.000
GR	370.000	820.000	360.000	950.000	350.000	990.000	347.000	1000.000	341.000	1020.000
GR	340.600	1025.000	341.000	1030.000	347.000	1050.000	348.500	1064.000	350.000	1080.000
GR	360.000	1110.000	370.000	1370.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	1.250	201.600	2.700	10.000	8.500	2.000	481.000	2.800	340.700	340.600

X1	5230.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	353.300	354.900	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	355.500	355.500	0.000
BT	8.000	820.000	370.000	0.000	950.000	360.000	0.000	965.000	355.200	0.000
BT	990.000	354.900	353.300	1064.000	354.900	353.300	1100.000	355.500	0.000	1110.000
BT	360.000	0.000	1370.000	370.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	5270.000	12.000	1000.000	1046.000	40.000	40.000	40.000	1.000	-1.700	0.000
GR	372.300	910.000	348.800	980.000	347.500	1000.000	346.000	1005.000	343.400	1010.000
GR	343.200	1020.000	343.400	1030.000	343.800	1040.000	346.200	1044.000	348.400	1046.000
GR	363.700	1110.000	370.100	1158.000	0.000	0.000	0.000	0.000	0.000	0.000

ONE-2 VALLEY

X1	5550.000	0.000	0.000	0.000	80.000	80.000	80.000	1.000	1.700	0.000
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X1	6600.000	11.000	1000.000	1046.000	1250.000	1250.000	1250.000	0.000	0.000	0.000
GR	380.000	720.000	370.000	810.000	360.000	940.000	359.000	1000.000	354.900	1005.000
GR	353.700	1023.000	354.500	1041.000	359.000	1046.000	360.000	1060.000	370.000	1120.000
GR	380.000	1150.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UT	5.000	965.000	1910.000	2470.000	4330.000	2470.000	0.000	0.000	0.000	0.000

OPH-1 VALLEY

X1	7340.000	11.000	1000.000	1034.000	740.000	740.000	740.000	0.000	0.000	0.000
GR	386.500	904.000	367.300	980.000	365.700	1000.000	361.100	1004.000	360.000	1014.000
GR	360.200	1024.000	360.700	1030.000	365.500	1034.000	366.900	1063.000	376.500	1104.000
GR	386.600	1144.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	7450.000	0.000	0.000	0.000	110.000	110.000	110.000	1.000	2.000	0.000
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X1	7550.000	0.000	0.000	0.000	100.000	100.000	100.000	1.000	2.100	0.000
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X1	8500.000	11.000	998.000	1034.000	750.000	750.000	750.000	0.000	0.000	0.000
GR	410.000	900.000	400.000	930.000	390.000	970.000	386.000	998.000	381.000	1004.000
GR	380.000	1015.000	361.000	1030.000	386.000	1034.000	390.000	1070.000	400.000	1130.000
GR	410.000	1240.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8400.000	0.000	0.000	0.000	100.000	100.000	100.000	1.000	0.400	0.000
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X1	8600.000	0.000	0.000	0.000	200.000	200.000	200.000	1.000	0.900	0.000
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X1	10040.000	12.000	1000.000	1024.000	1440.000	1440.000	1440.000	0.000	0.000	0.000
GR	420.000	500.000	410.000	600.000	400.000	740.000	393.000	1000.000	388.500	1004.000
GR	387.700	1012.000	388.500	1020.000	393.000	1024.000	394.000	1080.000	400.000	1160.000
GR	410.000	1300.000	420.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000

OPH-2 SR 1005									
GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
10079.000	14.000	986.000	1037.000	39.000	39.000	59.000	59.000	0.000	0.000
X1	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	420.000	500.000	410.000	600.000	400.000	740.000	393.400	986.000	393.000
GR	388.500	1004.000	387.700	1012.000	388.500	1020.000	593.000	1024.000	593.200
GR	394.000	1050.000	400.000	1150.000	410.000	1300.000	420.000	1400.000	420.000
SR	1.250	1.600	2.700	0.000	50.000	2.000	537.000	1.200	588.100
X1	10101.000	0.000	0.000	22.000	22.000	22.000	22.000	1.000	0.100
X2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UT	7.600	825.000	416.500	0.000	407.400	0.000	0.000	0.000	403.500
BT	1037.000	401.900	399.700	1125.000	403.700	0.000	1225.000	409.800	0.000
UT	416.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	10130.000	112.000	1000.000	1024.000	29.000	29.000	29.000	1.000	-1.200
GR	417.600	911.000	594.300	975.000	395.200	1000.000	589.700	1004.000	589.300
GR	359.900	1020.000	394.300	1024.000	396.200	1111.000	399.800	1211.000	405.800
GR	414.600	1401.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	10510.000	0.000	0.000	180.000	180.000	180.000	180.000	1.000	1.200
OPH-4 VALLEY									
X1	11426.000	12.000	1006.000	1028.000	1110.000	1110.000	1110.000	1110.000	0.000
GR	422.300	813.000	409.600	913.000	401.300	960.000	400.600	1000.000	594.600
GR	394.200	1013.000	394.500	1022.000	399.700	1028.000	402.500	1107.000	403.100
GR	420.800	1213.000	421.900	1222.000	0.000	0.000	0.000	0.000	0.000
UT	5.000	890.000	1760.000	2200.000	4010.000	2200.000	2200.000	0.000	0.000
X1	14580.000	12.000	1000.000	1031.000	3160.000	3160.000	3160.000	0.000	0.000
GR	455.500	886.000	412.800	986.000	412.000	1000.000	405.200	1005.000	405.500
GR	405.300	1025.000	412.900	1031.000	412.000	1086.000	411.400	1186.000	411.500
GR	424.400	1284.000	434.400	1360.000	0.000	0.000	0.000	0.000	0.000
X1	15500.000	13.000	1000.000	1026.000	1920.000	1920.000	1920.000	0.000	0.000
GR	440.000	600.000	430.000	750.000	900.000	900.000	948.000	940.000	417.500
GR	412.500	1004.000	411.800	1014.000	412.500	1024.000	417.500	1028.000	418.000
GR	420.000	1070.000	430.000	1100.000	440.000	1130.000	0.000	0.000	0.000
X1	17000.000	11.000	1000.000	1026.000	500.000	500.000	500.000	0.000	0.000
GR	440.000	400.000	450.000	670.000	421.000	910.000	420.000	1000.000	414.500
GR	413.500	1013.000	414.500	1022.000	420.000	1026.000	421.000	1105.000	430.000
GR	440.000	1350.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OPH-5 VALLEY									
X1	10510.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OPH-6 SR 1945									
X1	17050.000	13.000	980.000	1032.000	50.000	50.000	50.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	440.000	400.000	450.000	670.000	421.000	910.000	420.000	1000.000	414.500
GR	413.500	1013.000	414.500	1022.000	420.000	1026.000	421.000	1105.000	430.000
GR	440.000	1350.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SPECTRUM Moore Business Forms, Inc.

GR	421.000	1105.000	430.000	1250.000	440.000	1350.000	0.000	0.000	0.000	0.000
SB	1.250	1.600	2.800	0.000	36.000	2.000	466.000	1.000	414.100	414.000
X1	17070.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	424.500	426.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	427.000	427.000	0.000
BT	13.000	300.000	450.000	0.000	524.800	438.800	0.000	624.000	434.600	0.000
BT	724.000	431.300	0.000	824.000	426.500	0.000	924.000	426.600	0.000	980.000
BT	426.300	424.500	1032.000	426.200	424.500	1124.000	427.200	0.000	1224.000	450.400
BT	0.000	1324.000	436.300	0.000	1356.000	438.800	0.000	1440.000	450.000	0.000
X1	17100.000	11.000	1000.000	1026.000	30.000	30.000	30.000	0.000	0.000	0.000
GR	440.000	500.000	430.000	700.000	421.000	950.000	420.500	1000.000	414.500	1004.000
GR	413.800	1013.000	414.500	1022.000	420.500	1026.000	421.000	1065.000	430.000	1300.000
GR	440.000	1380.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

UPH-7 VALLEY

X1	17280.000	12.000	1000.000	1026.000	180.000	180.000	180.000	0.000	0.000	0.000
GR	443.100	606.000	434.000	706.000	427.000	806.000	424.000	906.000	421.800	1000.000
GR	414.700	1005.000	414.600	1021.000	421.100	1026.000	420.600	1106.000	433.800	1150.000
GR	440.100	1206.000	440.800	1213.000	0.000	0.000	0.000	0.000	0.000	0.000
UT	5.000	700.000	1400.000	1820.000	3200.000	1820.000	0.000	0.000	0.000	0.000

UPH-8 VALLEY

X1	20440.000	11.000	1000.000	1028.000	3660.000	3660.000	3660.000	0.000	0.000	0.000
GR	455.700	713.000	445.100	815.000	434.200	880.000	431.500	913.000	433.100	1000.000
GR	427.200	1005.000	427.100	1014.000	427.100	1023.000	433.000	1028.000	445.300	1113.000
GR	454.000	1194.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UT	5.000	390.000	730.000	1030.000	1835.000	1030.000	0.000	0.000	0.000	0.000

X1	23000.000	8.000	1000.000	1024.000	2060.000	2060.000	2060.000	0.000	0.000	0.000
GR	454.000	800.000	443.200	920.000	443.000	1000.000	440.000	1004.000	438.000	1012.000
GR	438.000	1020.000	443.000	1024.000	461.400	1160.000	0.000	0.000	0.000	0.000

X1	24000.000	7.000	1000.000	1020.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	469.500	800.000	450.000	910.000	447.000	1000.000	443.200	1004.000	445.200	1012.000
GR	447.000	1020.000	468.000	1120.000	0.000	0.000	0.000	0.000	0.000	0.000

UPH-9 VALLEY

X1	24800.000	10.000	1000.000	1015.000	800.000	800.000	800.000	0.000	0.000	0.000
GR	476.800	790.000	460.100	890.000	453.500	922.000	451.800	990.000	450.600	1000.000
GR	447.800	1002.000	447.400	1007.000	447.600	1012.000	450.000	1015.000	471.500	1088.000
UT	5.000	360.000	720.000	940.000	1670.000	940.000	0.000	0.000	0.000	0.000

X1	25700.000	7.000	1000.000	1014.000	900.000	900.000	900.000	0.000	0.000	0.000
GR	475.000	800.000	459.200	922.000	457.000	1000.000	454.000	1004.000	460.000	1014.000
GR	457.000	1014.000	466.400	1060.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	26450.000	7.000	1000.000	1016.000	750.000	750.000	750.000	0.000	0.000	0.000
GR	474.000	800.000	464.500	952.000	463.600	1000.000	460.000	1004.000	460.000	1014.000
GR	463.600	1016.000	471.600	1070.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	27100.000	13.000	1000.000	1018.000	650.000	650.000	650.000	0.000	0.000	0.000
GR	491.600	729.000	472.700	829.000	471.200	847.000	469.200	929.000	469.900	1000.000
GR	465.800	1002.000	465.500	1008.000	465.900	1014.000	469.500	1018.000	469.300	1029.000
GR	473.900	1129.000	477.400	1229.000	489.800	1307.000	0.000	0.000	0.000	0.000

X1	27200.000	9.000	1000.000	1018.000	100.000	100.000	100.000	0.000	0.000	0.000
SR	489.200	700.000	472.000	860.000	471.200	925.000	470.500	1000.000	466.800	1004.000
GR	466.100	1009.000	466.800	1014.000	470.200	1018.000	466.000	1140.000	0.000	0.000

X1	27300.000	1.000	1000.000	1018.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	495.000	450.000	490.000	500.000	480.000	580.000	471.000	1000.000	467.500	1003.000
GR	466.800	1009.000	467.500	1015.000	471.000	1018.000	480.000	1050.000	490.000	1140.000
GR	495.000	1200.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OPH-13 NC HWY 54

X1	27321.000	10.000	1000.000	1012.000	21.000	21.000	21.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	482.000	482.000	0.000
GR	495.000	450.000	490.000	500.000	480.000	580.000	471.000	1000.000	466.900	1000.000
GR	466.900	1012.000	471.000	1012.000	480.000	1050.000	490.000	1140.000	495.000	1200.000
SB	1.250	1.720	3.000	0.000	12.000	0.700	79.100	0.000	466.000	466.900

X1	27478.000	10.000	1000.000	1012.000	157.000	157.000	157.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	475.000	492.700	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	493.500	493.500	0.000
BT	11.000	415.000	499.800	0.000	515.000	496.600	0.000	615.000	494.200	0.000
BT	715.000	492.800	0.000	815.000	492.300	0.000	915.000	492.700	0.000	1000.000
BT	493.700	475.000	1012.000	493.900	475.000	1115.000	495.800	0.000	1215.000	498.700
BT	0.000	1241.000	499.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	495.000	575.000	490.000	770.000	480.000	900.000	472.500	1000.000	468.000	1000.000
GR	468.000	1012.000	472.500	1012.000	480.000	1070.000	490.000	1140.000	495.000	1210.000

X1	27500.000	11.000	1000.000	1018.000	22.000	22.000	22.000	0.000	0.000	0.000
GR	495.000	600.000	490.000	770.000	480.000	900.000	472.500	1000.000	469.000	1003.000
GR	466.200	1009.000	469.000	1015.000	472.500	1018.000	480.000	1070.000	490.000	1140.000
GR	495.000	1210.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	27600.000	12.000	1000.000	1018.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	500.000	800.000	490.000	870.000	480.000	940.000	474.000	955.000	473.500	1000.000
GR	470.000	1003.000	469.400	1009.000	470.000	1015.000	473.500	1018.000	480.000	1050.000
GR	490.000	1140.000	500.000	1200.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	27750.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	1.700	0.000
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X1	27900.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	1.700	0.000
QT	5.000	320.000	650.000	850.000	1515.000	850.000	0.000	0.000	0.000	0.000

X1	28000.000	10.000	1000.000	1020.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	505.000	800.000	480.000	964.000	477.400	1009.000	474.500	1004.000	474.000	1010.000
GR	474.500	1014.000	477.400	1020.000	481.900	1050.000	485.600	1090.000	499.400	1180.000

X1	28100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
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 REC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR = 01,02
 MODIFICATION = 50,51,52,53

T1 ORANGE CO FIA STUDY
 T2 PHIL'S CREEK
 T3 50 YR NATURAL PROFILE

J1	ICHECK	INW	NINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FU
	-10.	3.	0.	0.	0.003300	0.00	0.0	0.	348.000	0.000

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IDW	CHNIM	ITRACE
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 2
 CCHV= 0.100 CEHV= 0.300
 *SECNO 4500.000

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDBY
4500.00	9.19	347.49	0.00	348.00	347.76	0.28	0.00	0.00	345.00
2620.	58.	2448.	114.	71.	563.	139.	0.	0.	345.00
0.00	0.82	4.35	0.02	0.120	0.060	0.120	0.000	338.30	917.02
0.003259	0.	0.	0.	0	0	4	0.00	269.06	1186.80

*SECNO 4700.000

4700.00	9.14	348.04	0.00	0.00	348.51	0.47	0.69	0.06	345.00
2468.	120.	2274.	74.	121.	399.	74.	3.	1.	345.00
0.01	1.00	5.70	0.99	0.120	0.060	0.120	0.060	338.90	920.83
0.003691	200.	200.	200.	2	0	0	0.00	177.88	1098.72

*SECNO 5000.000

5000.00	9.24	349.14	0.00	0.00	349.66	0.52	1.13	0.02	346.00
2468.	25.	2378.	64.	25.	404.	62.	7.	2.	346.00
0.03	1.03	5.89	1.04	0.120	0.060	0.120	0.060	339.90	984.29
0.003877	300.	300.	300.	2	0	0	0.00	104.99	1089.28

*SECNO 5150.000

5150.00	9.32	349.72	0.00	0.00	350.23	0.51	0.57	0.00	347.00
2468.	11.	2423.	34.	12.	417.	37.	9.	2.	347.00
0.03	0.90	5.80	0.92	0.120	0.060	0.120	0.060	340.40	990.97
0.003738	150.	150.	150.	0	0	0	0.00	86.13	1077.10

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 ORANGE CO FIA STUDY
 T2 PHIL'S CREEK
 T3 100 YR NATURAL PROFILE

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FD
	-10.	4.	0.	0.	0.003300	0.00	0.0	0.	349.000	0.000
J2	NPROF	IPLUT	PRFVS	XSECV	XBECH	FN	ALLDC	IBW	CHNIN	ITRACE
	3.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 3

CCHV= 0.100 CEHV= 0.300
 *SECNO 4500.000

SECNO	DEPTH	WSEL	CRINS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
0	GL0B	WCH	DR0B	AL0B	ACH	AR0B	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNC	XNCR	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
4500.00	9.96	348.26	0.00	349.00	348.57	0.52	0.00	0.00	345.00
3190.	119.	3037.	234.	122.	640.	239.	0.	0.	345.00
0.00	0.98	4.75	0.96	0.120	0.060	0.120	0.000	338.30	900.09
0.003268	0.	0.	0.	0	0	4	0.00	321.46	1221.56

*SECNO 4700.000

4700.00	9.91	348.81	0.00	0.00	349.38	0.57	0.73	0.00	345.00
3190.	232.	2816.	143.	189.	438.	116.	4.	1.	345.00
0.01	1.23	6.43	1.23	0.120	0.060	0.120	0.060	338.90	900.91
0.004168	200.	200.	200.	2	0	0	0.00	210.06	1110.98

*SECNO 5000.000

5000.00	10.13	350.03	0.00	0.00	350.69	0.66	1.28	0.03	346.00
3190.	53.	3064.	133.	41.	448.	102.	9.	2.	346.00
0.02	1.30	6.70	1.31	0.120	0.060	0.120	0.060	334.90	979.76
0.004371	300.	300.	300.	2	0	0	0.00	120.78	1100.54

*SECNO 5150.000

5150.00	10.28	350.68	0.00	0.00	351.33	0.65	0.64	0.00	347.00
3190.	29.	3074.	187.	23.	466.	166.	11.	3.	347.00
0.03	1.27	6.60	1.33	0.120	0.060	0.120	0.060	340.40	987.32
0.004185	150.	150.	150.	0	0	0	0.00	94.69	1062.01

 REC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 ORANGE CO FIA STUDY
 T2 PHILS CREEK
 T3 500 YR NATURAL PROFILE

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.003300	0.00	0.0	0.	350.000	0.000
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 4

CCHV= 0.100 CEHV= 0.300
 *SECNO 4500.000

SECNO	DEPTH	CHSEL	CRIWS	WSELK	EG	HV	HL	GLUSS	DANK ELE
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	1WA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WIN	ELMIN	SSFA
SLOPE	XLOBL	XLCH	XLROB	ITRIAL	IDC	ICONT	CORAR	TOPRID	ENOST
4500.00	11.82	350.12	0.00	350.00	350.53	0.41	0.00	0.00	345.00
5910.	409.	4649.	802.	301.	820.	590.	0.	0.	345.00
0.00	1.36	5.69	1.36	0.120	0.060	0.120	0.000	338.50	859.16
0.003338	0.	0.	0.	0	0	3	0.00	446.57	1305.53

*SECNO 4700.000

4700.00	11.75	350.65	0.00	0.00	351.46	0.81	0.82	0.12	345.00
5580.	786.	4310.	484.	412.	530.	256.	7.	2.	345.00
0.01	1.91	8.14	1.89	0.120	0.060	0.120	0.060	336.90	863.45
0.005164	200.	200.	200.	2	0	0	0.00	277.03	1140.48

*SECNO 5000.000

5000.00	12.21	352.11	0.00	0.00	353.15	1.04	1.02	0.07	345.00
5580.	211.	4840.	529.	100.	553.	246.	14.	3.	346.00
0.02	2.11	8.76	2.15	0.120	0.060	0.120	0.060	339.90	963.12
0.005659	300.	300.	300.	2	0	0	0.00	174.87	1137.99

*SECNO 5150.000

5150.00	12.50	352.90	0.00	0.00	354.02	1.12	0.85	0.02	347.00
5580.	127.	5108.	345.	61.	578.	145.	17.	4.	347.00
0.02	2.08	8.84	2.37	0.120	0.060	0.120	0.060	340.40	978.35
0.005628	150.	150.	150.	1	0	0	0.00	110.39	1088.74

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

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

YR. NATURAL PROFILE

SUMMARY PRINTOUT

SECNO	CASEL	EG.	ELMIN	ELLC	TOPWID
4500.000	345.75	345.93	338.30	0.00	151.31
4500.000	347.49	347.76	338.30	0.00	269.06
4500.000	348.26	348.57	338.30	0.00	321.46
4500.000	350.12	350.53	338.30	0.00	446.37
4700.000	346.28	346.92	338.90	0.00	103.86
4700.000	348.04	348.51	338.90	0.00	177.88
4700.000	348.81	349.38	338.90	0.00	210.06
4700.000	350.55	351.46	338.90	0.00	277.03
5000.000	347.07	347.33	339.90	0.00	68.65
5000.000	349.14	349.66	339.90	0.00	104.99
5000.000	350.03	350.89	339.90	0.00	120.78
5000.000	352.11	353.15	339.90	0.00	174.87
5150.000	347.50	347.76	340.40	0.00	56.64
5150.000	349.72	350.23	340.40	0.00	86.13
5150.000	350.68	351.33	340.40	0.00	94.69
5150.000	352.90	354.02	340.40	0.00	110.59
5210.000	347.59	348.12	340.60	0.00	57.52
5210.000	349.93	350.61	340.60	0.00	73.80
5210.000	350.92	351.71	340.60	0.00	74.00
5210.000	353.20	354.48	340.60	0.00	74.00
5230.000	347.73	348.22	340.60	353.30	59.21
5230.000	350.06	350.71	340.60	353.30	74.00
5230.000	351.07	351.82	340.60	353.30	74.00
5230.000	355.24	356.07	340.60	353.30	74.00
5270.000	348.13	348.47	341.50	0.00	75.01
5270.000	350.39	350.95	341.50	0.00	91.24
5270.000	351.38	352.06	341.50	0.00	98.26
5270.000	355.48	356.22	341.50	0.00	127.75
5350.000	348.40	349.05	343.20	0.00	59.84
5350.000	350.61	351.55	343.20	0.00	80.67
5350.000	351.60	352.69	343.20	0.00	87.73
5350.000	355.59	356.66	343.20	0.00	116.27

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SPEECH LAB
 Model 8000 Series Form 100

SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
6600.000	359.46	359.96	353.70	0.00	80.04
6600.000	361.33	362.08	353.70	0.00	145.34
6600.000	362.22	363.04	353.70	0.00	162.13
6600.000	364.07	365.22	353.70	0.00	197.10
7340.000	365.51	366.13	360.00	0.00	37.72
7340.000	367.58	368.56	360.00	0.00	87.02
7340.000	368.39	369.53	360.00	0.00	93.85
7340.000	370.76	372.17	360.00	0.00	113.52
7450.000	366.76	367.65	362.00	0.00	32.72
7450.000	368.72	370.16	362.00	0.00	72.37
7450.000	369.50	371.19	362.00	0.00	86.43
7450.000	371.71	373.76	362.00	0.00	104.79
7550.000	368.60	369.62	364.10	0.00	32.26
7550.000	370.52	372.16	364.10	0.00	63.46
7550.000	371.30	373.24	364.10	0.00	83.14
7550.000	373.24	375.80	364.10	0.00	100.68
8300.000	384.63	385.63	380.00	0.00	33.25
8300.000	386.57	388.16	380.00	0.00	45.21
8300.000	387.42	389.34	380.00	0.00	58.74
8300.000	389.51	392.30	380.00	0.00	92.14
8400.000	386.40	386.91	380.40	0.00	35.99
8400.000	388.62	389.48	380.40	0.00	71.52
8400.000	389.67	390.66	380.40	0.00	88.39
8400.000	392.46	393.62	380.40	0.00	120.56
8600.000	387.84	388.25	381.30	0.00	44.59
8600.000	390.18	390.86	381.30	0.00	82.12
8600.000	391.25	392.04	381.30	0.00	99.27
8600.000	393.92	394.90	381.30	0.00	126.24
10040.000	395.21	395.54	387.70	0.00	177.86
10040.000	397.18	397.45	387.70	0.00	277.40
10040.000	398.05	398.31	387.70	0.00	321.48
10040.000	400.23	400.45	387.70	0.00	426.49
10079.000	395.42	395.73	387.70	0.00	51.00
10079.000	397.13	397.75	387.70	0.00	51.00
10079.000	397.84	398.67	387.70	0.00	51.00
10079.000	399.43	401.08	387.70	0.00	51.00
10101.000	395.46	395.78	387.80	400.80	51.00
10101.000	397.23	397.85	387.80	400.80	51.00
10101.000	397.99	398.80	387.80	400.80	51.00
10101.000	399.82	401.36	387.80	400.80	51.00
10130.000	395.64	395.92	388.10	0.00	160.80
10130.000	397.77	398.01	388.10	0.00	225.97
10130.000	398.76	398.99	388.10	0.00	254.35
10130.000	401.41	401.61	388.10	0.00	305.72

SECNO	CHSEL	EG	ELMIN	ELLC	TOPWID
10310.000	396.43	396.83	389.30	0.00	146.36
10310.000	398.38	398.73	389.30	0.00	207.84
10310.000	399.30	399.63	389.30	0.00	236.01
10310.000	401.82	402.10	389.30	0.00	290.42
11420.000	401.87	402.21	394.20	0.00	132.26
11420.000	403.58	404.03	394.20	0.00	168.33
11420.000	404.31	404.81	394.20	0.00	176.51
11420.000	406.17	406.80	394.20	0.00	197.21
14580.000	412.85	413.06	405.20	0.00	231.77
14580.000	414.65	414.84	405.20	0.00	252.99
14580.000	415.38	415.56	405.20	0.00	260.41
14580.000	417.51	417.81	405.20	0.00	282.79
16500.000	418.88	419.14	411.80	0.00	142.05
16500.000	420.46	420.79	411.80	0.00	179.30
16500.000	421.13	421.50	411.80	0.00	192.66
16500.000	423.11	423.51	411.80	0.00	232.20
17000.000	420.88	421.25	413.50	0.00	174.72
17000.000	422.55	422.89	413.50	0.00	261.44
17000.000	423.28	423.60	413.50	0.00	292.29
17000.000	425.14	425.41	413.50	0.00	372.00
17050.000	421.26	421.54	413.70	0.00	52.00
17050.000	422.68	423.25	413.70	0.00	52.00
17050.000	423.26	424.03	413.70	0.00	52.00
17050.000	425.37	425.57	413.70	0.00	381.94
17070.000	421.29	421.56	413.70	424.50	52.00
17070.000	422.76	423.31	413.70	424.50	52.00
17070.000	423.39	424.12	413.70	424.50	52.00
17070.000	425.57	426.76	413.70	424.50	52.00
17100.000	421.40	421.73	413.80	0.00	136.54
17100.000	423.12	423.50	413.80	0.00	229.44
17100.000	423.99	424.33	413.80	0.00	276.64
17100.000	426.79	426.97	413.80	0.00	426.73
17280.000	422.19	422.45	414.60	0.00	128.01
17280.000	423.94	424.24	414.60	0.00	208.76
17280.000	424.72	425.03	414.60	0.00	237.99
17280.000	427.18	427.42	414.60	0.00	324.48
20940.000	433.79	433.96	427.10	0.00	148.54
20940.000	435.57	435.75	427.10	0.00	174.24
20940.000	436.33	436.53	427.10	0.00	184.15
20940.000	437.92	438.21	427.10	0.00	204.84
23000.000	442.20	442.69	438.00	0.00	22.30
23000.000	443.47	444.24	438.00	0.00	109.50
23000.000	444.33	445.02	438.00	0.00	122.34
23000.000	446.40	446.86	438.00	0.00	153.46

SECNO	CWSEL	EG	ELMIN	ELLC	TOPNID
24000.000	448.87	449.07	443.20	0.00	84.88
24000.000	450.32	450.54	443.20	0.00	127.58
24000.000	451.01	451.27	443.20	0.00	134.75
24000.000	452.20	452.59	443.20	0.00	147.12
24800.000	452.63	452.99	447.40	0.00	67.14
24800.000	453.91	454.33	447.40	0.00	108.25
24800.000	454.75	455.17	447.40	0.00	115.23
24800.000	456.50	456.93	447.40	0.00	129.63
25700.000	459.58	459.71	454.00	0.00	106.87
25700.000	460.67	460.82	454.00	0.00	121.34
25700.000	461.19	461.35	454.00	0.00	127.89
25700.000	462.54	462.75	454.00	0.00	144.89
26450.000	464.91	465.17	460.00	0.00	98.64
26450.000	466.00	466.32	460.00	0.00	121.06
26450.000	466.50	466.84	460.00	0.00	131.59
26450.000	467.85	468.24	460.00	0.00	159.26
27100.000	469.93	470.30	465.50	0.00	143.46
27100.000	470.97	471.27	465.50	0.00	208.48
27100.000	471.40	471.68	465.50	0.00	230.11
27100.000	472.51	472.76	465.50	0.00	267.58
27200.000	470.93	471.40	466.10	0.00	70.18
27200.000	471.78	472.51	466.10	0.00	152.43
27200.000	472.15	472.92	466.10	0.00	174.40
27200.000	473.14	473.88	466.10	0.00	191.37
27300.000	471.95	472.28	466.80	0.00	65.95
27300.000	473.17	473.63	466.80	0.00	127.01
27300.000	473.60	474.14	466.80	0.00	148.73
27300.000	474.51	475.28	466.80	0.00	194.23
27321.000	472.00	472.54	466.90	0.00	12.00
27321.000	472.62	474.33	466.90	0.00	12.00
* 27321.000	472.65	475.53	466.90	0.00	12.00
* 27321.000	475.32	479.56	466.90	0.00	12.00
27478.000	472.14	472.95	468.00	475.00	12.00
* 27478.000	474.33	475.73	468.00	475.00	12.00
* 27478.000	475.56	477.23	468.00	475.00	12.00
* 27478.000	486.33	487.22	468.00	475.00	12.00
27500.000	472.87	473.36	468.20	0.00	25.56
27500.000	475.68	476.04	468.20	0.00	82.50
27500.000	477.27	477.52	468.20	0.00	114.81
27500.000	487.30	487.32	468.20	0.00	316.06
27600.000	474.04	474.47	469.40	0.00	65.75
27600.000	476.24	476.52	469.40	0.00	82.10
27600.000	477.59	477.81	469.40	0.00	92.14
27600.000	487.51	487.53	469.40	0.00	226.92

SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
27750.000	475.65	476.12	471.10	0.00	60.63
27750.000	477.06	477.60	471.10	0.00	75.56
27750.000	478.10	478.54	471.10	0.00	83.31
27750.000	487.33	487.37	471.10	0.00	200.05
27900.000	477.36	477.83	472.80	0.00	61.74
27900.000	478.64	479.23	472.80	0.00	74.67
27900.000	479.27	479.89	472.80	0.00	79.39
27900.000	487.37	487.43	472.80	0.00	173.43
28000.000	478.46	478.78	474.00	0.00	41.66
28000.000	479.73	480.27	474.00	0.00	67.50
28000.000	480.29	480.91	474.00	0.00	77.16
28000.000	487.42	487.48	474.00	0.00	186.39
28100.000	479.28	479.65	475.00	0.00	38.06
28100.000	480.66	481.23	475.00	0.00	66.22
28100.000	481.25	481.89	475.00	0.00	76.55
28100.000	487.46	487.55	475.00	0.00	174.09
28400.000	482.18	482.54	478.40	0.00	48.53
28400.000	483.95	484.03	478.40	0.00	73.75
28400.000	484.16	484.68	478.40	0.00	84.17
28400.000	487.73	487.93	478.40	0.00	152.15
28810.000	486.27	486.52	483.00	0.00	79.04
28810.000	487.37	487.69	483.00	0.00	108.06
28810.000	487.87	488.20	483.00	0.00	111.63
28810.000	489.11	489.53	483.00	0.00	123.37
28940.000	487.35	487.59	483.80	0.00	59.11
28940.000	488.44	488.82	483.80	0.00	71.82
28940.000	488.91	489.38	483.80	0.00	77.32
28940.000	490.13	490.84	483.80	0.00	92.85
29110.000	488.52	488.74	484.90	0.00	59.85
29110.000	489.77	490.10	484.90	0.00	74.51
29110.000	490.35	490.73	484.90	0.00	81.29
29110.000	491.84	492.34	484.90	0.00	105.47
29130.000	488.52	488.92	484.90	493.20	20.00
29130.000	489.78	490.62	484.90	493.20	20.00
29130.000	490.36	491.48	484.90	493.20	20.00
29130.000	492.72	494.37	484.90	493.20	20.00
29200.000	489.28	489.32	485.80	0.00	61.57
29200.000	490.96	491.22	485.80	0.00	91.36
29200.000	491.82	492.06	485.80	0.00	111.28
29200.000	494.64	494.60	485.80	0.00	176.08

7450.000 368.50 33.31 2551.49 85.20 1.65 10.67 2.05
 7450.000 371.71 241.63 3663.79 424.58 3.19 12.41 3.48

SECNO	CWSEL	ULOB	UCH	QROB	VLOB	VCH	VRQB
7550.000	368.60	0.00	965.00	0.00	0.00	8.11	0.00
7550.000	370.52	3.02	1892.83	14.15	0.92	10.31	1.23
7550.000	371.30	21.30	2386.22	62.47	1.51	11.35	1.94
7550.000	373.24	190.08	3773.58	360.33	3.29	13.67	3.63
8300.000	384.63	0.00	965.00	0.00	0.00	8.02	0.00
8300.000	386.57	0.91	1907.92	1.17	0.78	10.11	0.70
8300.000	387.42	10.09	2446.90	13.01	1.43	11.16	1.43
8300.000	389.51	114.28	4068.39	147.33	2.65	13.82	2.66
8400.000	386.40	0.00	965.00	0.00	0.00	5.75	0.00
8400.000	388.62	20.56	1862.94	26.50	1.19	7.51	1.19
8400.000	389.67	57.35	2338.71	73.94	1.53	8.18	1.53
8400.000	392.46	307.37	3624.39	398.24	2.52	9.39	2.51
8600.000	387.84	0.38	964.12	0.50	0.38	5.15	0.38
8600.000	390.77	54.77	1630.41	44.82	1.20	6.74	1.20
8600.000	391.25	80.82	2284.99	104.19	1.48	7.38	1.48
8600.000	393.92	347.18	3531.84	450.98	2.42	8.64	2.41
10040.000	395.21	80.82	764.05	120.13	0.90	5.12	1.14
10040.000	397.18	396.29	1077.88	435.83	1.22	5.48	1.60
10040.000	398.05	627.49	1217.57	624.94	1.33	5.60	1.72
10040.000	400.23	1512.68	1580.65	1236.67	1.56	5.85	1.94
10079.000	395.42	0.00	965.00	0.00	0.00	4.49	0.00
10079.000	397.13	0.00	1910.00	0.00	0.00	6.31	0.00
10079.000	397.84	0.00	2470.00	0.00	0.00	7.28	0.00
10079.000	399.43	0.00	4330.00	0.00	0.00	10.31	0.00
10101.000	395.46	0.00	965.00	0.00	0.00	4.54	0.00
10101.000	397.23	0.00	1910.00	0.00	0.00	6.31	0.00
10101.000	397.99	0.00	2470.00	0.00	0.00	7.23	0.00
10101.000	399.82	0.00	4330.00	0.00	0.00	9.95	0.00
10130.000	395.64	75.45	738.30	151.26	1.23	4.82	1.05
10130.000	397.77	227.00	1049.38	633.61	1.67	5.13	1.47
10130.000	398.76	313.72	1193.99	962.29	1.80	5.23	1.58
10130.000	401.41	582.18	1571.45	2176.37	2.00	5.39	1.86
10310.000	396.43	62.40	793.17	109.43	1.29	5.53	1.05
10310.000	398.36	212.78	1140.69	556.53	1.87	6.00	1.64
10310.000	399.30	301.66	1299.22	869.13	2.05	6.12	1.79
10310.000	401.82	576.21	1692.53	2061.46	2.26	6.20	2.09
11420.000	401.87	27.62	882.24	55.14	0.74	4.89	0.83
11420.000	403.58	184.71	1414.76	310.53	1.54	6.19	1.54
11420.000	404.31	293.68	1677.77	498.35	1.84	6.74	1.87
11420.000	406.17	697.32	2452.52	1180.16	2.55	6.20	2.64
14580.000	412.85	2.46	760.94	126.60	0.39	3.94	0.70
14580.000	414.65	37.89	1079.05	643.05	0.97	4.33	1.21
14580.000	415.38	62.44	1210.57	926.99	1.10	4.45	1.36
14580.000	417.61	182.16	1730.10	2097.73	1.47	5.08	1.83

SECNO	CNSCL	RLOB	UCH	OROB	VLOB	VCH	VRDB
16500.000	418.88	57.28	713.12	29.60	0.76	4.30	0.78
16500.000	420.46	307.33	1130.86	146.81	1.38	5.38	1.44
16500.000	421.13	488.89	1345.20	225.92	1.63	5.88	1.72
16500.000	423.11	1202.74	1898.23	514.02	2.12	6.68	2.26
17000.000	420.88	17.71	766.74	15.55	0.51	5.02	0.51
17000.000	422.55	267.64	1088.55	228.81	1.23	5.54	1.26
17000.000	423.28	452.17	1227.31	380.52	1.42	5.70	1.46
17000.000	425.14	1121.21	1583.98	909.81	1.74	6.01	1.80
17050.000	421.26	0.00	800.00	0.00	0.00	4.24	0.00
17050.000	422.68	0.00	1585.00	0.00	0.00	6.03	0.00
17050.000	423.26	0.00	2060.00	0.00	0.00	7.03	0.00
17050.000	425.37	889.42	1908.63	816.95	1.51	4.74	1.62
17070.000	421.29	0.00	800.00	0.00	0.00	4.20	0.00
17070.000	422.76	0.00	1585.00	0.00	0.00	5.94	0.00
17070.000	423.39	0.00	2060.00	0.00	0.00	6.88	0.00
17070.000	425.57	0.00	3615.00	0.00	0.00	8.76	0.00
17100.000	421.40	20.35	763.68	15.97	0.59	4.72	0.58
17100.000	423.12	228.13	1170.33	186.54	1.26	5.67	1.23
17100.000	423.99	405.88	1317.11	337.01	1.41	5.74	1.38
17100.000	426.79	1119.23	1535.90	959.87	1.46	5.09	1.43
17260.000	422.19	0.82	699.36	99.82	0.25	4.32	0.90
17280.000	423.94	78.66	1084.92	421.42	0.80	5.22	1.58
17280.000	424.72	197.06	1251.47	611.47	1.09	5.49	1.81
17280.000	427.18	824.72	1590.16	1200.13	1.45	5.45	2.07
20940.000	433.79	132.24	567.01	0.76	0.61	3.61	0.35
20940.000	435.57	507.54	875.54	16.91	1.33	4.23	0.74
20940.000	436.33	742.58	1043.34	34.10	1.55	4.57	0.89
20940.000	437.42	1508.14	1583.29	108.56	2.16	5.81	1.30
23000.000	442.20	0.00	390.00	0.00	0.00	5.61	0.00
23000.000	443.47	23.09	706.45	0.46	0.78	7.12	0.57
23000.000	444.33	157.08	866.25	6.67	1.53	7.23	1.03
23000.000	446.40	638.20	1136.28	60.53	2.11	6.70	1.42
24000.000	448.87	37.59	346.52	5.88	0.72	3.83	0.71
24000.000	450.32	175.93	527.93	26.14	1.07	4.42	1.00
24000.000	451.01	317.79	666.68	45.53	1.39	5.00	1.19
24000.000	452.20	713.37	1016.07	105.56	2.06	6.47	1.64
24800.000	452.63	25.88	350.33	13.79	0.92	5.07	1.17
24800.000	453.91	155.39	534.38	40.24	1.37	6.05	1.55
24800.000	454.35	316.54	647.71	65.74	1.73	6.41	1.71
24800.000	456.50	784.03	906.64	144.33	2.33	7.13	2.01
25700.000	459.53	172.13	168.53	19.33	1.48	3.99	1.19
25700.000	460.67	413.99	253.30	52.71	1.98	4.41	1.60
25700.000	461.19	561.19	304.83	73.98	2.19	4.71	1.72
25700.000	462.54	1052.16	463.44	154.46	2.70	5.55	2.06

PREPARED BY: [illegible]
 CHECKED BY: [illegible]

SECNO	CWSEL	WLOB	DCH	OROB	VLOB	VCH	VROB
26450.000	464.91	52.38	305.35	4.26	0.87	4.47	0.73
26450.000	466.00	227.13	470.35	22.52	1.53	5.52	1.16
26450.000	466.50	347.88	554.05	38.07	1.78	5.93	1.33
26450.000	467.85	777.44	787.30	1105.26	2.31	6.86	1.73
27100.000	469.93	24.47	328.31	7.22	0.65	5.12	0.72
27100.000	470.97	209.66	453.96	56.38	1.28	5.49	1.19
27100.000	471.40	338.26	509.37	92.37	1.47	5.62	1.32
27100.000	472.51	782.53	658.01	229.46	1.91	5.95	1.57
27200.000	470.93	4.80	353.80	1.40	0.48	5.55	0.67
27200.000	471.78	112.39	594.90	12.70	1.34	7.53	1.32
27200.000	472.15	221.07	696.27	22.66	1.66	8.14	1.55
27200.000	473.14	674.25	929.63	66.34	2.42	8.98	1.98
27300.000	471.95	13.26	345.75	0.99	0.62	4.68	0.61
27300.000	473.17	129.27	581.13	9.60	1.18	6.07	1.15
27300.000	473.60	222.29	701.20	16.51	1.41	6.77	1.37
27300.000	474.51	577.99	1049.07	42.94	2.01	8.75	1.96
27321.000	472.00	0.00	360.00	0.00	0.00	5.88	0.00
27321.000	472.62	0.00	720.00	0.00	0.00	10.48	0.00
* 27321.000	472.65	0.00	1940.00	0.00	0.00	13.62	0.00
* 27321.000	475.32	0.00	1670.00	0.00	0.00	16.54	0.00
27478.000	472.14	0.00	360.00	0.00	0.00	7.25	0.00
* 27478.000	474.33	0.00	720.00	0.00	0.00	9.48	0.00
* 27478.000	475.56	0.00	940.00	0.00	0.00	10.36	0.00
* 27478.000	486.33	0.00	1670.00	0.00	0.00	7.59	0.00
27500.000	472.87	0.41	359.38	0.21	0.44	5.61	0.44
27500.000	475.68	78.52	600.85	40.63	1.16	5.24	1.16
27500.000	477.27	178.07	669.80	92.13	1.17	4.67	1.16
27500.000	487.30	776.55	489.78	403.67	0.53	1.51	0.53
27600.000	474.04	7.15	352.48	0.37	0.55	5.36	0.52
27600.000	476.24	180.39	520.49	19.12	1.52	4.94	1.03
27600.000	477.59	304.75	590.53	44.73	1.61	4.55	1.08
27600.000	487.31	741.76	578.49	349.76	0.78	1.90	0.60
27750.000	475.65	2.44	355.31	0.24	0.49	5.54	0.48
27750.000	477.06	126.44	583.56	10.00	1.69	6.51	1.17
27750.000	478.10	246.04	666.66	27.30	1.94	6.15	1.31
27750.000	487.33	752.74	628.21	509.05	0.95	2.29	0.72
27900.000	477.36	4.73	355.01	0.26	0.50	5.51	0.49
27900.000	478.64	117.56	593.56	8.87	1.70	6.79	1.19
27900.000	479.27	209.36	710.79	19.85	2.09	7.19	1.43
27900.000	487.57	719.57	685.60	264.83	1.16	2.60	0.86
28000.000	478.46	5.50	311.86	2.63	0.71	4.65	0.71
28000.000	479.73	48.67	578.03	23.30	1.31	6.26	1.30
28000.000	480.29	94.11	713.23	42.66	1.64	6.87	1.53
28000.000	487.42	482.42	665.22	347.36	0.98	2.73	0.89

SECNO	CMSL	QLOB	VCH	QROB	VLOB	VCH	VROB
28100.000	479.28	3.74	314.47	1.79	0.70	4.94	0.69
28100.000	480.66	46.54	581.18	22.28	1.32	6.38	1.32
28100.000	481.25	91.40	716.90	41.70	1.64	6.97	1.55
28100.000	487.46	467.28	731.50	316.23	1.12	5.22	1.00
28400.000	482.18	15.04	296.77	7.38	1.09	4.97	0.95
28400.000	483.55	74.08	531.68	44.24	1.54	6.10	1.44
28400.000	484.16	122.14	653.38	74.48	1.77	6.58	1.62
28400.000	487.73	382.76	797.40	334.84	1.62	4.67	1.40
28810.000	486.27	34.53	241.64	43.83	1.61	4.58	1.12
28810.000	487.37	81.33	413.97	154.70	2.07	5.54	1.50
28810.000	487.87	107.36	496.85	245.79	2.21	5.86	1.77
28810.000	489.11	200.88	755.41	558.73	2.67	6.89	2.40
28940.000	487.35	11.21	259.36	49.22	0.90	4.28	1.34
28940.000	488.44	41.90	471.23	136.86	1.45	5.72	1.94
28940.000	488.91	65.25	591.30	93.45	1.88	6.44	2.29
28940.000	490.13	164.11	956.41	394.48	2.29	8.22	3.02
29110.000	488.52	11.76	257.67	50.57	0.96	4.16	1.32
29110.000	489.77	45.84	461.62	142.54	1.37	5.30	1.67
29110.000	490.35	72.57	575.09	202.34	1.55	5.83	2.10
29110.000	491.84	193.35	906.82	414.83	2.10	7.07	2.65
29130.000	488.52	0.00	320.00	0.00	0.00	5.07	0.00
29130.000	489.78	0.00	650.00	0.00	0.00	7.37	0.00
29130.000	490.36	0.00	850.00	0.00	0.00	6.51	0.00
29130.000	492.72	0.00	1515.00	0.00	0.00	10.30	0.00
29200.000	489.28	49.75	262.35	7.90	1.18	4.36	1.12
29200.000	490.96	171.79	450.92	27.24	1.39	4.80	1.32
29200.000	491.82	274.71	529.20	46.09	1.53	4.76	1.31
29200.000	494.64	626.47	719.24	184.29	1.54	4.29	1.09

YR NATURAL PROFILE

SUMMARY PRINTOUT TABLE 150

SECNO	KLCH	ELTRD	ELLC	ELHIN	Q	CWSEL	CRWS	EG	10K'S	VCH	AREA	.01K
4500.000	0.00	0.00	0.00	338.30	1335.00	345.75	0.00	345.95	32.67	5.41	408.82	233.56
4500.000	0.00	0.00	0.00	338.30	2620.00	347.49	0.00	347.76	32.59	4.35	772.78	458.94
4500.000	0.00	0.00	0.00	338.30	3390.00	348.26	0.00	348.57	32.68	4.75	1000.31	592.97
4500.000	0.00	0.00	0.00	338.30	5910.00	350.12	0.00	350.53	33.38	5.69	1717.24	1022.96
4700.000	200.00	0.00	0.00	338.90	1250.00	346.28	0.00	346.52	24.96	3.97	345.66	250.21
4700.000	200.00	0.00	0.00	338.90	2468.00	348.04	0.00	348.51	36.91	5.70	593.9	406.23
4700.000	200.00	0.00	0.00	338.90	3190.00	348.81	0.00	349.38	41.68	6.43	742.5	494.12
4700.000	200.00	0.00	0.00	338.90	5580.00	350.65	0.00	351.46	51.64	8.14	1197.89	776.49
5000.000	300.00	0.00	0.00	339.90	1250.00	347.07	0.00	347.33	28.62	4.15	310.22	233.67
5000.000	300.00	0.00	0.00	339.90	2468.00	349.14	0.00	349.66	38.77	5.09	410.49	396.36
5000.000	300.00	0.00	0.00	339.90	3190.00	350.03	0.00	350.69	43.71	6.70	590.59	482.50
5000.000	300.00	0.00	0.00	339.90	5580.00	352.11	0.00	353.15	56.59	8.76	898.16	741.76
5150.000	150.00	0.00	0.00	340.40	1250.00	347.50	0.00	347.76	27.73	4.07	308.56	237.39
5150.000	150.00	0.00	0.00	340.40	2468.00	349.72	0.00	350.23	37.38	5.80	466.43	403.67
5150.000	150.00	0.00	0.00	340.40	3190.00	350.68	0.00	351.33	41.85	6.60	553.89	493.13
5150.000	150.00	0.00	0.00	340.40	5580.00	352.90	0.00	354.02	56.28	8.84	783.87	743.77
5210.000	60.00	0.00	0.00	340.60	1250.00	347.59	0.00	348.12	100.91	5.84	213.92	124.44
5210.000	60.00	0.00	0.00	340.60	2468.00	349.93	0.00	350.61	84.97	6.60	373.98	267.74
5210.000	60.00	0.00	0.00	340.60	3190.00	350.92	0.00	351.71	79.07	7.14	446.95	358.74
5210.000	60.00	0.00	0.00	340.60	5580.00	353.20	0.00	354.48	84.72	9.06	615.58	606.24
5230.000	20.00	354.90	353.30	340.60	1250.00	347.73	0.00	348.22	93.03	5.64	221.71	129.60
5230.000	20.00	354.90	353.30	340.60	2468.00	350.06	0.00	350.71	78.64	6.44	383.24	278.32
5230.000	20.00	354.90	353.30	340.60	3190.00	351.07	0.00	351.82	73.26	6.97	457.43	372.70
5230.000	20.00	354.90	353.30	340.60	5580.00	355.24	0.00	356.07	41.62	7.28	766.53	664.91
5270.000	40.00	0.00	0.00	341.50	1250.00	348.13	0.00	348.47	58.61	4.69	297.36	201.17
5270.000	40.00	0.00	0.00	341.50	2468.00	350.39	0.00	350.95	43.27	6.23	485.80	375.18
5270.000	40.00	0.00	0.00	341.50	3190.00	351.38	0.00	352.06	46.59	6.99	578.67	467.36
5270.000	40.00	0.00	0.00	341.50	5580.00	355.48	0.00	356.22	33.08	7.59	1043.93	970.11
5350.000	80.00	0.00	0.00	343.20	1250.00	348.40	0.00	349.05	108.51	6.47	198.76	120.00
5350.000	80.00	0.00	0.00	343.20	2468.00	350.61	0.00	351.55	93.15	7.96	358.93	255.71
5350.000	80.00	0.00	0.00	343.20	3190.00	351.60	0.00	352.69	91.82	8.69	441.90	332.90
5350.000	80.00	0.00	0.00	343.20	5580.00	355.59	0.00	356.66	55.08	8.97	648.44	751.85
6600.000	1250.00	0.00	0.00	353.70	1250.00	359.46	0.00	359.96	71.58	5.67	227.89	147.75
6600.000	1250.00	0.00	0.00	353.70	2468.00	361.33	0.00	362.08	76.37	7.30	458.82	282.41
6600.000	1250.00	0.00	0.00	353.70	3190.00	362.22	0.00	363.04	74.60	7.84	594.67	369.32
6600.000	1250.00	0.00	0.00	353.70	5580.00	364.07	0.00	365.22	86.90	9.78	925.30	598.58
7340.000	740.00	0.00	0.00	360.00	965.00	365.51	0.00	366.13	102.00	6.32	153.11	95.55
7340.000	740.00	0.00	0.00	360.00	1910.00	367.58	0.00	368.56	103.06	8.13	288.06	188.14
7340.000	740.00	0.00	0.00	360.00	2470.00	368.39	0.00	369.53	106.41	8.94	362.33	239.45
7340.000	740.00	0.00	0.00	360.00	4330.00	370.76	0.00	372.17	101.44	10.51	607.37	429.91
7450.000	110.00	0.00	0.00	362.00	965.00	366.76	0.00	367.65	174.24	7.56	127.68	73.11

7450.000 110.00 0.00 0.00 362.00 2470.00 369.50 368.90 371.19 180.08 10.67 281.89 184.06
 7450.000 110.00 0.00 0.00 362.00 4330.00 371.71 0.00 373.76 164.56 12.41 492.88 337.54

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRINS	EG	10K*8	VCH	AREA	.01K
7550.000	100.00	0.00	0.00	364.10	965.00	368.60	0.00	369.62	214.44	8.11	119.03	165.90
7550.000	100.00	0.00	0.00	364.10	1910.00	370.52	369.76	372.16	213.95	10.31	198.42	130.58
7550.000	100.00	0.00	0.00	364.10	2470.00	371.30	370.99	373.24	216.96	11.35	256.54	167.69
7550.000	100.00	0.00	0.00	364.10	4330.00	373.28	373.23	375.80	218.50	13.67	434.93	292.93
8300.000	750.00	0.00	0.00	380.00	965.00	384.63	0.00	385.63	212.47	8.02	120.38	166.20
8300.000	750.00	0.00	0.00	380.00	1910.00	386.57	0.00	388.16	212.62	10.11	191.36	130.99
8300.000	750.00	0.00	0.00	380.00	2470.00	387.42	386.65	389.34	212.41	11.16	235.32	169.48
8300.000	750.00	0.00	0.00	380.00	4330.00	389.51	389.22	392.30	219.79	13.82	392.79	292.07
8400.000	100.00	0.00	0.00	380.40	965.00	386.40	0.00	386.91	80.48	5.75	167.76	107.37
8400.000	100.00	0.00	0.00	380.40	1910.00	388.62	0.00	389.48	81.62	7.51	287.35	211.41
8400.000	100.00	0.00	0.00	380.40	2470.00	389.67	0.00	390.66	80.02	8.18	371.65	276.12
8400.000	100.00	0.00	0.00	380.40	4330.00	392.46	0.00	393.62	70.62	9.39	666.75	515.26
8600.000	200.00	0.00	0.00	381.30	965.00	387.84	0.00	388.25	55.65	5.19	189.63	129.36
8600.000	200.00	0.00	0.00	381.30	1910.00	390.18	0.00	390.86	58.02	6.74	338.25	250.76
8600.000	200.00	0.00	0.00	381.30	2470.00	391.25	0.00	392.04	58.09	7.36	435.44	324.08
8600.000	200.00	0.00	0.00	381.30	4330.00	393.92	0.00	394.90	56.47	8.69	736.80	576.23
10040.000	1440.00	0.00	0.00	387.70	965.00	395.21	0.00	395.54	46.13	5.12	344.40	142.09
10040.000	1440.00	0.00	0.00	387.70	1910.00	397.18	0.00	397.45	36.66	5.48	793.26	315.47
10040.000	1440.00	0.00	0.00	387.70	2470.00	398.05	0.00	398.31	33.37	5.60	1054.81	427.60
10040.000	1440.00	0.00	0.00	387.70	4330.00	400.23	0.00	400.45	27.39	5.85	1876.58	827.39
10079.000	39.00	0.00	0.00	387.70	965.00	395.42	0.00	395.73	53.66	4.49	215.11	131.74
10079.000	39.00	0.00	0.00	387.70	1910.00	397.13	0.00	397.75	67.80	6.31	302.91	231.96
10079.000	39.00	0.00	0.00	387.70	2470.00	397.84	0.00	398.67	77.94	7.28	339.50	274.78
10079.000	39.00	0.00	0.00	387.70	4330.00	399.43	0.00	401.08	119.46	10.31	420.04	396.16
10101.000	22.00	401.90	400.80	387.80	965.00	395.46	0.00	395.78	55.69	4.54	212.71	129.31
10101.000	22.00	401.90	400.80	387.80	1910.00	397.23	0.00	397.83	67.83	6.31	302.67	231.91
10101.000	22.00	401.90	400.80	387.80	2470.00	397.99	0.00	398.80	76.29	7.23	341.75	282.80
10101.000	22.00	401.90	400.80	387.80	4330.00	399.82	0.00	401.36	106.55	9.95	435.07	419.49
10130.000	29.00	0.00	0.00	388.10	965.00	395.64	0.00	395.92	40.74	4.82	358.52	151.19
10130.000	29.00	0.00	0.00	388.10	1910.00	397.77	0.00	398.01	31.45	5.13	771.39	340.56
10130.000	29.00	0.00	0.00	388.10	2470.00	398.76	0.00	398.99	28.22	5.23	1010.05	464.97
10130.000	29.00	0.00	0.00	388.10	4330.00	401.41	0.00	401.61	21.56	5.39	1750.99	432.43
10310.000	180.00	0.00	0.00	389.30	965.00	396.43	0.00	396.83	58.57	5.53	295.56	126.09
10310.000	180.00	0.00	0.00	389.30	1910.00	398.38	0.00	398.73	47.29	6.00	642.61	277.76
10310.000	180.00	0.00	0.00	389.30	2470.00	399.30	0.00	399.63	42.49	6.12	847.40	378.92
10310.000	180.00	0.00	0.00	389.30	4330.00	401.82	0.00	402.10	31.27	6.20	1516.12	774.31
11420.000	1110.00	0.00	0.00	394.20	965.00	401.87	0.00	402.21	40.67	4.89	284.29	151.32
11420.000	1110.00	0.00	0.00	394.20	1910.00	403.58	0.00	404.03	47.65	6.19	549.47	276.69
11420.000	1110.00	0.00	0.00	394.20	2470.00	404.31	0.00	404.81	50.34	6.74	675.52	348.13
11420.000	1110.00	0.00	0.00	394.20	4330.00	406.17	0.00	406.80	57.26	8.15	1021.62	572.23
14580.000	3160.00	0.00	0.00	405.20	890.00	412.85	0.00	413.06	28.97	3.94	379.60	165.36
14580.000	3160.00	0.00	0.00	405.20	1760.00	414.65	0.00	414.84	25.05	4.33	818.91	351.66
14580.000	3160.00	0.00	0.00	405.20	2200.00	415.38	0.00	415.56	23.53	4.45	1008.09	453.53
14580.000	3160.00	0.00	0.00	405.20	4010.00	417.61	0.00	417.81	22.63	5.08	1612.15	842.96

SECNO	XLCH	ELTRD	ELLO	ELMIN	U	CWSEL	CRWS	EG	10K*3	VCH	AREA	POIK
16500.000	1920.00	0.00	0.00	411.80	800.00	418.88	0.00	419.14	54.91	4.30	279.58	135.40
16500.000	1920.00	0.00	0.00	411.80	1585.00	420.46	0.00	420.79	39.84	5.38	535.17	251.11
16500.000	1920.00	0.00	0.00	411.80	2060.00	421.13	0.00	421.50	42.42	5.88	659.46	316.30
16500.000	1920.00	0.00	0.00	411.80	3615.00	423.11	0.00	423.51	41.01	6.68	1079.36	564.47
17000.000	500.00	0.00	0.00	413.50	800.00	420.88	0.00	421.25	50.35	5.02	218.32	112.75
17000.000	500.00	0.00	0.00	413.50	1585.00	422.55	0.00	422.84	44.04	5.54	594.98	238.84
17000.000	500.00	0.00	0.00	413.50	2060.00	423.28	0.00	423.60	41.31	5.70	794.65	320.51
17000.000	500.00	0.00	0.00	413.50	3615.00	425.14	0.00	425.41	38.97	6.01	1413.49	611.34
17050.000	50.00	0.00	0.00	413.70	800.00	421.26	0.00	421.54	59.97	4.24	188.71	103.30
17050.000	50.00	0.00	0.00	413.70	1585.00	422.68	0.00	423.25	70.42	6.03	262.68	178.98
17050.000	50.00	0.00	0.00	413.70	2060.00	423.26	0.00	424.03	92.28	7.03	292.95	214.44
17050.000	50.00	0.00	0.00	413.70	3615.00	425.37	0.00	425.57	27.30	4.74	1496.78	691.94
17070.000	20.00	426.20	424.50	413.70	800.00	421.29	0.00	421.36	58.21	4.20	190.41	104.86
17070.000	20.00	426.20	424.50	413.70	1585.00	422.76	0.00	423.31	74.33	5.94	266.96	183.85
17070.000	20.00	426.20	424.50	413.70	2060.00	423.39	0.00	424.12	85.84	6.88	299.42	222.35
17070.000	20.00	426.20	424.50	413.70	3615.00	425.57	0.00	426.76	91.59	6.76	412.86	377.74
17100.000	30.00	0.00	0.00	413.80	800.00	421.40	0.00	421.73	42.77	4.72	223.82	122.32
17100.000	30.00	0.00	0.00	413.80	1585.00	423.12	0.00	423.50	44.44	5.67	539.29	237.77
17100.000	30.00	0.00	0.00	413.80	2060.00	423.99	0.00	424.33	39.71	5.74	760.90	326.88
17100.000	30.00	0.00	0.00	413.80	3615.00	426.79	0.00	426.97	21.63	5.09	1740.45	777.26
17280.000	180.00	0.00	0.00	414.60	800.00	422.19	0.00	422.45	36.19	4.32	276.63	132.97
17280.000	180.00	0.00	0.00	414.60	1585.00	423.94	0.00	424.24	38.13	5.22	572.04	256.69
17280.000	180.00	0.00	0.00	414.60	2060.00	424.72	0.00	425.03	37.15	5.49	747.08	337.99
17280.000	180.00	0.00	0.00	414.60	3615.00	427.18	0.00	427.42	26.37	5.45	1440.49	704.02
20940.000	3660.00	0.00	0.00	427.10	700.00	433.79	0.00	433.96	27.07	3.61	321.45	134.54
20940.000	3660.00	0.00	0.00	427.10	1400.00	435.57	0.00	435.75	25.75	4.23	610.33	275.87
20940.000	3660.00	0.00	0.00	427.10	1820.00	436.33	0.00	436.53	26.40	4.57	746.29	354.22
20940.000	3660.00	0.00	0.00	427.10	3200.00	437.92	0.00	438.21	33.61	5.81	1054.53	551.94
23000.000	2060.00	0.00	0.00	438.00	390.00	442.20	0.00	442.69	133.00	5.61	69.57	33.82
23000.000	2060.00	0.00	0.00	438.00	730.00	443.47	442.31	444.24	150.33	7.12	129.78	59.54
23000.000	2060.00	0.00	0.00	438.00	1030.00	444.33	0.00	445.02	120.64	7.23	229.12	93.76
23000.000	2060.00	0.00	0.00	438.00	1835.00	446.40	0.00	446.86	65.11	6.70	515.49	227.42
24000.000	1000.00	0.00	0.00	443.20	390.00	448.87	0.00	449.07	37.05	3.83	151.07	64.08
24000.000	1000.00	0.00	0.00	443.20	730.00	450.32	0.00	450.54	34.04	4.42	309.55	125.12
24000.000	1000.00	0.00	0.00	443.20	1030.00	451.01	0.00	451.27	37.73	5.00	399.94	167.69
24000.000	1000.00	0.00	0.00	443.20	1835.00	452.20	0.00	452.59	50.71	6.47	567.54	257.69
24800.000	800.00	0.00	0.00	447.40	390.00	452.63	0.00	452.99	65.96	5.07	108.98	48.02
24800.000	800.00	0.00	0.00	447.40	730.00	453.91	0.00	454.33	67.87	6.05	227.37	88.61
24800.000	800.00	0.00	0.00	447.40	1030.00	454.75	0.00	455.17	63.74	6.41	321.88	129.01
24800.000	800.00	0.00	0.00	447.40	1835.00	456.50	0.00	456.93	57.90	7.13	535.73	241.15
25700.000	900.00	0.00	0.00	454.00	360.00	459.58	0.00	459.71	85.60	3.99	174.60	38.91
25700.000	900.00	0.00	0.00	454.00	720.00	460.67	0.00	460.82	76.01	4.41	299.46	82.59
25700.000	900.00	0.00	0.00	454.00	940.00	461.19	0.00	461.35	74.00	4.71	364.12	109.27
25700.000	900.00	0.00	0.00	454.00	1670.00	462.54	0.00	462.75	72.88	5.55	547.91	195.62

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CHSEL	CRINS	EG	10K*8	VCH	AREA	.01K
26450.000	750.00	0.00	0.00	460.00	360.00	464.91	0.00	465.17	61.84	4.47	133.67	45.70
26450.000	750.90	0.00	0.00	460.00	720.00	466.00	0.00	466.32	69.52	5.52	252.95	86.55
26450.000	750.00	0.00	0.00	460.00	940.00	466.50	0.00	466.84	71.12	5.93	317.39	111.47
26450.000	750.00	0.00	0.00	460.00	1670.00	467.85	0.00	468.24	72.07	6.86	312.35	196.71
27100.000	650.00	0.00	0.00	465.50	360.00	469.93	468.54	470.30	102.59	5.12	111.80	35.54
27100.000	650.00	0.00	0.00	465.50	720.00	470.97	0.00	471.27	83.69	5.79	294.18	78.70
27100.000	650.00	0.00	0.00	465.50	940.00	471.40	0.00	471.68	77.80	5.62	390.94	106.57
27100.000	650.00	0.00	0.00	465.50	1670.00	472.51	0.00	472.76	66.81	5.95	667.30	204.32
27200.000	100.00	0.00	0.00	466.10	360.00	470.93	0.00	471.40	112.97	5.55	75.89	33.87
27200.000	100.00	0.00	0.00	466.10	720.00	471.78	471.69	472.51	156.21	7.53	172.18	57.61
27200.000	100.00	0.00	0.00	466.10	940.00	472.15	472.11	472.92	163.85	8.14	233.10	73.44
27200.000	100.00	0.00	0.00	466.10	1670.00	473.14	6.00	473.88	154.82	8.98	415.43	134.22
27300.000	100.00	0.00	0.00	466.80	360.00	471.95	0.00	472.28	67.99	4.68	96.78	43.66
27300.000	100.00	0.00	0.00	466.80	720.00	473.17	0.00	473.63	80.89	6.07	214.07	80.06
27300.000	100.00	0.00	0.00	466.80	940.00	473.60	0.00	474.14	90.76	6.77	273.69	98.67
27300.000	100.00	0.00	0.00	466.80	1670.00	474.51	0.00	475.28	124.77	8.75	429.05	149.51
27321.000	21.00	0.00	0.00	466.90	360.00	472.00	0.00	472.54	136.82	5.88	61.26	30.78
27321.000	21.00	0.00	0.00	466.90	720.00	472.62	0.00	474.33	388.63	10.48	68.67	36.52
* 27321.000	21.00	0.00	0.00	466.90	940.00	472.65	472.65	475.53	653.19	13.62	68.99	36.78
* 27321.000	21.00	0.00	0.00	466.90	1670.00	475.32	475.32	479.56	674.91	16.54	101.00	64.28
27478.000	157.00	492.70	475.00	468.00	360.00	472.14	0.00	472.95	259.56	7.25	49.66	22.35
* 27478.000	157.00	492.70	475.00	468.00	720.00	474.33	0.00	475.73	294.60	9.48	75.98	41.95
* 27478.000	157.00	492.70	475.00	468.00	940.00	475.56	0.00	477.23	297.87	10.36	90.76	54.46
* 27478.000	157.00	492.70	475.00	468.00	1670.00	486.33	0.00	487.22	80.51	7.59	219.95	186.12
27500.000	22.00	0.00	0.00	468.20	360.00	472.87	0.00	473.36	118.64	5.61	65.43	33.05
27500.000	22.00	0.00	0.00	468.20	720.00	475.68	0.00	476.04	47.62	5.24	217.24	104.34
27500.000	22.00	0.00	0.00	468.20	940.00	477.27	0.00	477.52	26.10	4.67	374.48	177.33
27500.000	22.00	0.00	0.00	468.20	1670.00	487.30	0.00	487.52	0.99	1.51	2537.10	1676.39
27600.000	100.00	0.00	0.00	469.40	360.00	474.04	0.00	474.47	103.90	5.36	79.48	35.32
27600.000	100.00	0.00	0.00	469.40	720.00	476.24	0.00	476.52	47.63	4.94	242.30	104.99
27600.000	100.00	0.00	0.00	469.40	940.00	477.59	0.00	477.81	30.27	4.55	360.21	170.84
27600.000	100.00	0.00	0.00	469.40	1670.00	487.31	0.00	487.33	1.69	1.90	1834.43	1284.30
27750.000	150.00	0.00	0.00	471.10	360.00	475.65	0.00	476.12	114.64	5.54	73.76	33.62
27750.000	150.00	0.00	0.00	471.10	720.00	477.06	0.00	477.60	101.78	6.51	172.85	71.37
27750.000	150.00	0.00	0.00	471.10	940.00	478.10	0.00	478.54	70.36	6.15	255.87	112.06
27750.000	150.00	0.00	0.00	471.10	1670.00	487.33	0.00	487.57	2.83	2.29	1475.79	995.53
27900.000	150.00	0.00	0.00	472.80	360.00	477.36	0.00	477.83	113.20	5.51	74.47	33.84
27900.000	150.00	0.00	0.00	472.80	720.00	478.64	0.00	479.23	114.18	6.79	163.88	67.38
27900.000	150.00	0.00	0.00	472.80	940.00	479.27	0.00	479.89	106.68	7.19	212.82	90.17
27900.000	150.00	0.00	0.00	472.80	1670.00	487.37	0.00	487.43	4.95	2.80	1165.17	750.91
28000.000	100.00	0.00	0.00	474.00	320.00	478.46	0.00	478.78	77.88	4.65	78.56	36.26
28000.000	100.00	0.00	0.00	474.00	650.00	479.73	0.00	480.27	92.47	6.26	147.32	67.50
28000.000	100.00	0.00	0.00	474.00	850.00	480.29	0.00	480.91	95.29	6.87	189.09	87.08
28000.000	100.00	0.00	0.00	474.00	1515.00	487.42	0.00	487.46	4.94	2.78	1129.44	681.52

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRWS	EG	10K+S	VCH	AREA	91K
28100.000	100.00	0.00	0.00	475.00	320.00	479.28	0.00	479.65	94.73	4.94	71.56	32.88
28100.000	100.00	0.00	0.00	475.00	650.00	480.66	0.00	481.23	97.82	6.38	143.15	65.72
28100.000	100.00	0.00	0.00	475.00	850.00	481.25	0.00	481.89	99.16	6.97	185.57	85.36
28100.000	100.00	0.00	0.00	475.00	1515.00	487.46	0.00	487.55	7.34	3.22	959.91	559.18
28400.000	300.00	0.00	0.00	478.40	320.00	482.18	0.00	482.54	97.61	4.97	82.09	32.39
28400.000	300.00	0.00	0.00	478.40	650.00	483.55	0.00	484.03	88.98	6.10	165.91	68.91
28400.000	300.00	0.00	0.00	478.40	850.00	484.16	0.00	484.68	86.90	6.58	214.16	91.18
28400.000	300.00	0.00	0.00	478.40	1515.00	487.73	0.00	487.93	21.28	4.67	645.31	328.44
28810.000	410.00	0.00	0.00	483.00	320.00	486.27	0.00	486.52	96.21	4.58	113.40	32.62
28810.000	410.00	0.00	0.00	483.00	650.00	487.37	0.00	487.69	88.54	5.54	216.90	69.08
28810.000	410.00	0.00	0.00	483.00	850.00	487.87	0.00	488.20	83.94	5.86	271.81	92.78
28810.000	410.00	0.00	0.00	483.00	1515.00	489.11	0.00	489.53	82.25	6.89	417.60	167.05
28940.000	130.00	0.00	0.00	483.80	320.00	487.35	0.00	487.59	70.46	4.28	108.70	38.12
28940.000	130.00	0.00	0.00	483.80	650.00	488.44	0.00	488.82	83.48	5.72	180.02	71.14
28940.000	130.00	0.00	0.00	483.80	850.00	488.91	0.00	489.36	91.61	6.44	215.18	88.81
28940.000	130.00	0.00	0.00	483.80	1515.00	490.13	0.00	490.84	109.14	8.22	318.52	145.02
29110.000	170.00	0.00	0.00	484.90	320.00	488.52	0.00	488.74	64.82	4.16	112.46	39.75
29110.000	170.00	0.00	0.00	484.90	650.00	489.77	0.00	490.10	66.83	5.30	196.88	79.51
29110.000	170.00	0.00	0.00	484.90	850.00	490.35	0.00	490.73	68.30	5.83	242.14	102.85
29110.000	170.00	0.00	0.00	484.90	1515.00	491.87	0.00	492.34	70.70	7.07	378.08	160.17
29130.000	20.00	494.10	493.20	484.90	320.00	488.52	0.00	488.92	98.88	5.07	63.09	32.18
29130.000	20.00	494.10	493.20	484.90	650.00	489.78	0.00	490.62	141.58	7.31	88.22	54.63
29130.000	20.00	494.10	493.20	484.90	850.00	490.36	0.00	491.48	164.90	8.51	99.85	66.19
29130.000	20.00	494.10	493.20	484.90	1515.00	492.72	0.00	494.37	162.06	10.30	147.08	119.01
29200.000	70.00	0.00	0.00	485.80	320.00	489.28	0.00	489.52	31.83	4.36	109.59	37.76
29200.000	70.00	0.00	0.00	485.80	650.00	490.96	0.00	491.22	46.28	4.00	238.05	93.55
29200.000	70.00	0.00	0.00	485.80	850.00	491.82	0.00	492.06	37.81	4.76	325.62	138.23
29200.000	70.00	0.00	0.00	485.80	1515.00	494.64	0.00	494.80	17.81	4.29	730.64	358.98

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YR NATURAL PROFILE

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFNSX	DIFKWS	TOPWID	XLCH
4500.000	1335.00	345.75	0.00	0.00	-1.25	151.31	0.00
4500.000	2620.00	347.49	1.73	0.00	-0.51	269.06	0.00
4500.000	3390.00	348.26	0.77	0.00	-0.74	321.46	0.00
4500.000	5910.00	350.12	1.86	0.00	0.12	446.37	0.00
4700.000	1250.00	346.28	0.00	0.53	0.00	103.86	200.00
4700.000	2468.00	348.04	1.76	0.55	0.00	177.88	200.00
4700.000	3190.00	348.81	0.77	0.55	0.00	210.06	200.00
4700.000	5580.00	350.65	1.84	0.53	0.00	277.03	200.00
5000.000	1250.00	347.07	0.00	0.78	0.00	68.65	300.00
5000.000	2468.00	349.14	2.08	1.10	0.00	104.99	300.00
5000.000	3190.00	350.03	0.89	1.22	0.00	120.78	300.00
5000.000	5580.00	352.11	2.08	1.46	0.00	174.87	300.00
5150.000	1250.00	347.50	0.00	0.43	0.00	56.64	150.00
5150.000	2468.00	349.72	2.22	0.58	0.00	86.13	150.00
5150.000	3190.00	350.68	0.96	0.65	0.00	94.69	150.00
5150.000	5580.00	352.90	2.23	0.79	0.00	110.39	150.00
5210.000	1250.00	347.59	0.00	0.10	0.00	57.52	60.00
5210.000	2468.00	349.93	2.34	0.21	0.00	73.86	60.00
5210.000	3190.00	350.92	0.99	0.24	0.00	74.00	60.00
5210.000	5580.00	353.20	2.29	0.30	0.00	74.00	60.00
5230.000	1250.00	347.73	0.00	0.13	0.00	59.21	20.00
5230.000	2468.00	350.06	2.34	0.13	0.00	74.00	20.00
5230.000	3190.00	351.07	1.00	0.15	0.00	74.00	20.00
5230.000	5580.00	355.24	4.18	2.04	0.00	74.00	20.00
5270.000	1250.00	348.13	0.00	0.41	0.00	75.01	40.00
5270.000	2468.00	350.39	2.26	0.33	0.00	91.24	40.00
5270.000	3190.00	351.38	0.99	0.31	0.00	98.26	40.00
5270.000	5580.00	355.48	4.10	0.23	0.00	127.75	40.00
5350.000	1250.00	348.40	0.00	0.26	0.00	59.84	80.00
5350.000	2468.00	350.61	2.22	0.22	0.00	80.67	80.00
5350.000	3190.00	351.60	0.99	0.22	0.00	87.73	80.00
5350.000	5580.00	355.59	3.99	0.11	0.00	116.27	80.00
6600.000	1250.00	359.46	0.00	11.06	0.00	80.94	1250.00
6600.000	2468.00	361.33	1.87	10.72	0.00	145.34	1250.00
6600.000	3190.00	362.22	0.88	10.62	0.00	162.13	1250.00
6600.000	5580.00	364.07	1.85	8.48	0.00	197.10	1250.00
7340.000	965.00	365.51	0.00	6.05	0.00	37.72	740.00
7340.000	1910.00	367.58	2.07	6.25	0.00	87.02	740.00
7340.000	2470.00	368.39	0.81	6.18	0.00	93.85	740.00
7340.000	4330.00	370.76	2.36	6.69	0.00	113.52	740.00
7450.000	965.00	366.76	0.00	1.25	0.00	32.72	110.00

7450.000 1910.00 368.72 1.95 1.13 0.00 72.37 110.00
 7450.000 2470.00 369.50 0.79 1.11 0.00 86.43 110.00
 7450.000 4330.00 371.71 2.21 0.95 0.00 104.79 110.00

SECNO Q CWSEL DIFWSP DIFWSX DIFKWS TOPWID XLCH

7550.000	965.00	368.60	0.00	1.83	0.00	32.26	100.00
7550.000	1910.00	370.52	1.93	1.81	0.00	63.46	100.00
7550.000	2470.00	371.30	0.78	1.80	0.00	83.14	100.00
7550.000	4330.00	373.24	1.94	1.53	0.00	100.08	100.00
8300.000	965.00	384.63	0.00	16.03	0.00	33.25	750.00
8300.000	1910.00	386.57	1.94	16.05	0.00	45.21	750.00
8300.000	2470.00	387.42	0.85	16.12	0.00	58.74	750.00
8300.000	4330.00	389.51	2.09	16.27	0.00	92.14	750.00
8400.000	965.00	386.40	0.00	1.77	0.00	35.99	100.00
8400.000	1910.00	388.62	2.22	2.05	0.00	71.52	100.00
8400.000	2470.00	389.67	1.05	2.25	0.00	88.39	100.00
8400.000	4330.00	392.46	2.78	2.95	0.00	120.56	100.00
8600.000	965.00	387.84	0.00	1.44	0.00	44.59	200.00
8600.000	1910.00	390.18	2.35	1.56	0.00	82.12	200.00
8600.000	2470.00	391.25	1.07	1.58	0.00	99.27	200.00
8600.000	4330.00	393.92	2.67	1.47	0.00	126.24	200.00
10040.000	965.00	395.21	0.00	7.37	0.00	177.86	1440.00
10040.000	1910.00	397.18	1.97	6.99	0.00	277.40	1440.00
10040.000	2470.00	398.05	0.87	6.79	0.00	321.48	1440.00
10040.000	4330.00	400.23	2.18	6.31	0.00	426.49	1440.00
10079.000	965.00	395.42	0.00	0.21	0.00	51.00	39.00
10079.000	1910.00	397.13	1.71	-0.05	0.00	51.00	39.00
10079.000	2470.00	397.84	0.72	-0.20	0.00	51.00	39.00
10079.000	4330.00	399.43	1.58	-0.80	0.00	51.00	39.00
10101.000	965.00	395.46	0.00	0.04	0.00	51.00	22.00
10101.000	1910.00	397.23	1.77	0.10	0.00	51.00	22.00
10101.000	2470.00	397.99	0.76	0.15	0.00	51.00	22.00
10101.000	4330.00	399.82	1.83	0.40	0.00	51.00	22.00
10130.000	965.00	395.64	0.00	0.18	0.00	160.80	29.00
10130.000	1910.00	397.77	2.13	0.54	0.00	225.97	29.00
10130.000	2470.00	398.76	0.99	0.77	0.00	254.35	29.00
10130.000	4330.00	401.41	2.65	1.59	0.00	305.72	29.00
10310.000	965.00	396.43	0.00	0.79	0.00	148.36	180.00
10310.000	1910.00	398.38	1.95	0.61	0.00	207.84	180.00
10310.000	2470.00	399.50	0.92	0.54	0.00	236.01	180.00
10310.000	4330.00	401.82	2.52	0.41	0.00	290.42	180.00
11420.000	965.00	401.87	0.00	5.43	0.00	132.26	1110.00
11420.000	1910.00	403.58	1.72	5.20	0.00	168.33	1110.00
11420.000	2470.00	404.31	0.73	5.01	0.00	176.51	1110.00
11420.000	4330.00	406.17	1.85	4.34	0.00	197.21	1110.00
14580.000	890.00	412.85	0.00	10.49	0.00	231.77	3160.00
14580.000	1760.00	414.65	1.80	11.07	0.00	252.99	3160.00
14580.000	2200.00	415.38	0.73	11.07	0.00	260.41	3160.00
14580.000	4010.00	417.61	2.23	11.45	0.00	282.79	3160.00

SECNO	H	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
16500.000	800.00	418.88	0.00	6.05	0.00	142.05	1920.00
16500.000	1585.00	420.46	1.58	5.81	0.00	179.30	1920.00
16500.000	2060.00	421.13	0.67	5.75	0.00	192.66	1920.00
16500.000	3615.00	423.11	1.98	5.50	0.00	232.20	1920.00
17000.000	800.00	420.88	0.00	2.00	0.00	174.72	500.00
17000.000	1585.00	422.55	1.68	2.09	0.00	261.44	500.00
17000.000	2060.00	423.28	0.73	2.15	0.00	292.29	500.00
17000.000	3615.00	425.14	1.86	2.03	0.00	372.00	500.00
17050.000	800.00	421.26	0.00	10.38	0.00	52.00	150.00
17050.000	1585.00	422.68	1.42	0.13	0.00	52.00	50.00
17050.000	2060.00	423.26	0.58	-0.02	0.00	52.00	50.00
17050.000	3615.00	425.37	2.11	0.23	0.00	381.94	50.00
17070.000	800.00	421.29	0.00	0.03	0.00	52.00	20.00
17070.000	1585.00	422.76	1.47	0.08	0.00	52.00	20.00
17070.000	2060.00	423.39	0.62	0.13	0.00	52.00	20.00
17070.000	3615.00	425.57	2.18	0.20	0.00	52.00	20.00
17100.000	800.00	421.40	0.00	0.11	0.00	136.54	30.00
17100.000	1585.00	423.12	1.72	0.36	0.00	229.44	30.00
17100.000	2060.00	423.99	0.87	0.60	0.00	276.64	30.00
17100.000	3615.00	426.79	2.79	1.22	0.00	426.73	30.00
17280.000	800.00	422.19	0.00	0.74	0.00	128.01	180.00
17280.000	1585.00	423.94	1.75	0.82	0.00	208.76	180.00
17280.000	2060.00	424.72	0.78	0.73	0.00	237.99	180.00
17280.000	3615.00	427.18	2.46	0.40	0.00	324.48	180.00
20940.000	700.00	433.74	0.00	11.60	0.00	148.54	3660.00
20940.000	1400.00	435.57	1.78	11.63	0.00	174.24	3660.00
20940.000	1820.00	436.33	0.76	11.61	0.00	184.15	3660.00
20940.000	3200.00	437.92	1.58	10.73	0.00	204.84	3660.00
23000.000	390.00	442.20	0.00	8.41	0.00	22.30	2060.00
23000.000	730.00	443.47	1.27	7.90	0.00	109.50	2060.00
23000.000	1030.00	444.33	0.86	8.00	0.00	122.34	2060.00
23000.000	1835.00	446.40	2.07	8.46	0.00	153.46	2060.00
24000.000	390.00	448.87	0.00	6.66	0.00	84.88	1000.00
24000.000	730.00	450.32	1.45	6.84	0.00	127.58	1000.00
24000.000	1030.00	451.01	0.69	6.68	0.00	134.75	1000.00
24000.000	1835.00	452.20	1.19	5.80	0.00	147.12	1000.00
24800.000	390.00	453.63	0.00	3.76	0.00	67.14	800.00
24800.000	730.00	453.91	1.28	3.99	0.00	108.25	800.00
24800.000	1030.00	454.75	0.84	3.75	0.00	115.23	800.00
24800.000	1835.00	456.50	1.75	4.30	0.00	129.03	800.00
25700.000	360.00	459.58	0.00	8.95	0.00	106.87	900.00
25700.000	720.00	460.67	1.09	6.76	0.00	121.34	900.00
25700.000	940.00	461.19	0.52	6.44	0.00	127.89	900.00
25700.000	1670.00	462.54	1.35	6.04	0.00	144.89	900.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
26450.000	360.00	464.91	0.00	5.33	0.00	98.64	750.00
26450.000	720.00	466.00	1.09	5.33	0.00	121.06	750.00
26450.000	940.00	466.50	0.50	5.31	0.00	131.59	750.00
26450.000	1670.00	467.85	1.35	5.31	0.00	154.26	750.00
27100.000	360.00	469.93	0.00	5.02	0.00	143.46	650.00
27100.000	720.00	470.97	1.04	4.97	0.00	208.48	650.00
27100.000	940.00	471.40	0.44	4.90	0.00	230.11	650.00
27100.000	1670.00	472.51	1.11	4.66	0.00	267.58	650.00
27200.000	360.00	470.93	0.00	1.01	0.00	70.18	100.00
27200.000	720.00	471.78	0.85	0.82	0.00	152.43	100.00
27200.000	940.00	472.15	0.37	0.75	0.00	174.40	100.00
27200.000	1670.00	473.14	0.99	0.63	0.00	191.37	100.00
27300.000	360.00	471.95	0.00	1.02	0.00	65.95	100.00
27300.000	720.00	473.17	1.21	1.39	0.00	127.01	100.00
27300.000	940.00	473.60	0.43	1.45	0.00	148.73	100.00
27300.000	1670.00	474.51	0.91	1.36	0.00	194.23	100.00
27321.000	360.00	472.00	0.00	0.05	0.00	12.00	21.00
27321.000	720.00	472.62	0.62	-0.55	0.00	12.00	21.00
* 27321.000	940.00	472.65	0.03	-0.95	0.00	12.00	21.00
* 27321.000	1670.00	475.32	2.67	0.81	0.00	12.00	21.00
27478.000	360.00	472.14	0.00	0.13	0.00	12.00	157.00
* 27478.000	720.00	474.33	2.19	1.71	0.00	12.00	157.00
* 27478.000	940.00	475.56	1.23	2.91	0.00	12.00	157.00
* 27478.000	1670.00	486.33	10.76	11.01	0.00	12.00	157.00
27500.000	360.00	472.87	0.00	0.73	0.00	25.56	22.00
27500.000	720.00	475.68	2.81	1.35	0.00	82.50	22.00
27500.000	940.00	477.27	1.58	1.70	0.00	114.81	22.00
27500.000	1670.00	487.30	10.04	0.98	0.00	316.06	22.00
27600.000	360.00	474.04	0.00	1.17	0.00	65.75	100.00
27600.000	720.00	476.24	2.20	0.56	0.00	82.10	100.00
27600.000	940.00	477.59	1.35	0.33	0.00	92.14	100.00
27600.000	1670.00	487.31	9.71	0.00	0.00	226.92	100.00
27750.000	360.00	475.65	0.00	1.61	0.00	60.63	150.00
27750.000	720.00	477.06	1.41	0.82	0.00	75.56	150.00
27750.000	940.00	478.10	1.05	0.51	0.00	83.31	150.00
27750.000	1670.00	487.33	9.23	0.02	0.00	200.05	150.00
27900.000	360.00	477.36	0.00	1.71	0.00	61.74	150.00
27900.000	720.00	478.64	1.27	1.58	0.00	74.67	150.00
27900.000	940.00	479.27	0.63	1.16	0.00	79.39	150.00
27900.000	1670.00	487.37	8.10	0.04	0.00	173.43	150.00
28000.000	320.00	478.46	0.00	1.69	0.00	41.68	100.00
28000.000	650.00	479.73	1.27	1.09	0.00	67.50	100.00
28000.000	850.00	480.29	0.56	1.02	0.00	77.16	100.00
28000.000	1515.00	487.42	7.13	0.05	0.00	186.39	100.00

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SECNO	Q	CWSEL	DIFWSP	DIFNSX	DIFKWS	TOPWID	XLCH
28100.000	320.00	479.28	0.00	0.82	0.00	58.06	100.00
28100.000	650.00	480.66	1.38	0.93	0.00	66.22	100.00
28100.000	850.00	481.25	0.59	0.96	0.00	76.55	100.00
28100.000	1515.00	487.46	6.21	0.04	0.00	174.09	100.00
28400.000	320.00	482.18	0.00	2.90	0.00	48.53	300.00
28400.000	650.00	483.55	1.37	2.90	0.00	73.75	300.00
28400.000	850.00	484.16	0.60	2.91	0.00	84.17	300.00
28400.000	1515.00	487.73	3.58	0.27	0.00	152.15	300.00
28810.000	320.00	486.27	0.00	4.09	0.00	79.04	410.00
28810.000	650.00	487.37	1.10	3.81	0.00	108.06	410.00
28810.000	850.00	487.87	0.50	3.71	0.00	111.63	410.00
28810.000	1515.00	489.11	1.25	1.38	0.00	123.37	410.00
28940.000	320.00	487.35	0.00	1.08	0.00	59.11	130.00
28940.000	650.00	488.44	1.09	1.07	0.00	71.82	130.00
28940.000	850.00	488.91	0.47	1.05	0.00	77.32	130.00
28940.000	1515.00	490.13	1.22	1.02	0.00	92.85	130.00
29110.000	320.00	488.52	0.00	1.16	0.00	59.85	170.00
29110.000	650.00	489.77	1.26	1.33	0.00	74.51	170.00
29110.000	850.00	490.35	0.58	1.44	0.00	81.29	170.00
29110.000	1515.00	491.87	1.48	1.70	0.00	105.47	170.00
29130.000	320.00	488.52	0.00	0.00	0.00	20.00	20.00
29130.000	650.00	489.78	1.26	0.00	0.00	20.00	20.00
29130.000	850.00	490.36	0.58	0.00	0.00	20.00	20.00
29130.000	1515.00	492.72	2.36	0.88	0.00	20.00	20.00
29200.000	320.00	489.28	0.00	0.76	0.00	61.57	70.00
29200.000	650.00	490.96	1.68	1.18	0.00	91.36	70.00
29200.000	850.00	491.82	0.87	1.47	0.00	111.28	70.00
29200.000	1515.00	494.64	2.82	1.93	0.00	176.08	70.00

SUMMARY OF ERRORS

CAUTION SECNO=27321.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27321.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27321.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=27321.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27321.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27321.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=27478.000 PROFILE= 2 HYDRAULIC JUMP D.S.
CAUTION SECNO=27478.000 PROFILE= 3 HYDRAULIC JUMP D.S.
CAUTION SECNO=27478.000 PROFILE= 4 HYDRAULIC JUMP D.S.

HEC2 RELEASE DATED NOV 76, UPDATED AUG 77
 ERROR CORR 01,02
 MODIFICATION - 50,51,52,53

25 Aug 78
Dud

C
 T1 ORANGE CO IJA STUDY
 T2 PILS CREEK
 T3 100 YR NATURAL PROFILE

J1	ICHECK	INP	INVS	IBIN	STRT	METRIC	DDAYS		NOEL	
	0.	0.	0.	0.	0.0030	0.00	0.0	0.	549.000	0.000
J2	PROOF	IPLUT	INVS	XSECV	X5.C	FM	ALLDC	IB	ENH1	ITRAEL
	1.000	0.000	1.000	0.000	0.00	0.000	0.000	0.000	0.000	15.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	55.000	1.000	5.000	61.000	7.000	5.000	43.000	0.000	30.000	1.000
	55.000	21.000	22.000	54.000	0.000	0.000	200.000	0.000	0.000	0.000

NC	0.120	0.120	0.060	0.100	0.500	0.000	0.000	0.000	0.000	0.000	0.000
OR	5.000	1535.000	2120.000	3390.000	5910.000	5390.000	0.000	0.000	0.000	0.000	0.000
PT	0.000	0.000	0.000	0.000	0.000	0.000	7.100	965.000	1065.000	0.000	0.000

X1	0500.000	15.000	975.000	1075.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	570.000	790.000	360.000	790.000	350.000	860.000	345.000	975.000	544.000	1000.000	1000.000
CR	559.000	1005.000	341.000	1005.000	350.000	1005.000	340.000	1050.000	500.000	1075.000	1075.000
BR	350.000	1500.000	360.000	1760.000	370.000	1840.000	0.000	0.000	0.000	0.000	0.000
BI	5.000	1250.000	200.000	3100.000	5500.000	5150.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1060.000	0.000	0.000	0.000

X1	0700.000	11.000	1000.000	1050.000	200.000	200.000	200.000	0.000	0.000	0.000	0.000
GR	570.000	790.000	360.000	790.000	350.000	870.000	345.000	1000.000	540.000	1005.000	1005.000
CR	559.000	1005.000	340.000	1005.000	350.000	1050.000	350.000	1150.000	500.000	1075.000	1075.000
BR	570.000	1090.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1060.000	0.000	0.000	0.000

X1	0900.000	11.000	1000.000	1050.000	200.000	200.000	200.000	0.000	0.000	0.000	0.000
GR	570.000	790.000	360.000	790.000	350.000	860.000	345.000	1000.000	541.000	1005.000	1005.000
CR	559.000	1005.000	341.000	1005.000	350.000	1050.000	350.000	1100.000	500.000	1075.000	1075.000
BR	570.000	1590.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1060.000	0.000	0.000	0.000

X1	5150.000	11.000	1000.000	1050.000	150.000	150.000	150.000	0.000	0.000	0.000	0.000
GR	570.000	820.000	360.000	950.000	350.000	990.000	547.000	1000.000	301.000	1005.000	1005.000
CR	340.400	1025.000	341.000	1045.000	347.000	1050.000	350.000	1080.000	360.000	1110.000	1110.000
BR	370.000	1570.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1064.000	0.000	0.000	0.000

ONE - JONES FERRY RD. BR 1967

X1	5210.000	12.000	990.000	1054.000	60.000	60.000	60.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	353.500	353.500	0.000
GR	379.000	620.000	360.000	950.000	350.000	990.000	347.000	1000.000	341.000	1020.000
GR	340.600	1025.000	341.000	1030.000	347.000	1050.000	348.500	1064.000	350.000	1080.000
GR	360.000	1110.000	370.000	1170.000	0.000	0.000	0.000	0.000	0.000	0.000
SR	1.250	1.600	2.700	0.000	8.500	2.000	481.000	2.800	310.700	340.600
ET	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1064.000	0.000	0.000

X1	5250.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	353.500	354.900	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	355.500	355.500	0.000
BT	0.000	0.000	370.000	0.000	350.000	348.000	0.000	365.000	355.200	0.000
BT	990.000	354.900	353.300	1064.000	354.900	353.300	1100.000	355.500	0.000	1110.000
BT	360.000	0.000	1370.000	370.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1055.000	0.000	0.000

X1	5270.000	12.000	1000.000	1046.000	40.000	40.000	40.000	1.000	1.700	0.000
GR	372.300	910.000	348.800	980.000	347.500	1000.000	346.000	1005.000	343.400	1010.000
GR	343.200	1020.000	345.600	1030.000	343.200	1040.000	346.200	1044.000	341.400	1040.000
GR	365.700	1110.000	370.100	1158.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	972.000	1054.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	970.000	1060.000	0.000	0.000

ONE - VALLEY

X1	550.000	0.000	0.000	0.000	00.000	00.000	00.000	1.000	1.700	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	958.000	1046.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	960.000	1055.000	0.000	0.000

X1	6000.000	11.000	1000.000	1046.000	1250.000	1250.000	1250.000	0.000	0.000	0.000
GR	300.000	720.000	370.000	810.000	360.000	910.000	358.000	1000.000	350.500	1025.000
GR	355.700	1025.000	354.500	1041.000	359.000	1046.000	360.000	1060.000	370.000	1120.000
GR	300.000	1150.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	307.000	1910.000	2470.000	9550.000	2470.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	977.000	1054.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	975.000	1060.000	0.000	0.000

ONE - VALLEY

X1	7500.000	11.000	1000.000	1046.000	1250.000	1250.000	1250.000	0.000	0.000	0.000
GR	300.000	720.000	370.000	810.000	360.000	910.000	358.000	1000.000	350.500	1025.000
GR	300.200	1025.000	360.700	1030.000	365.300	1059.000	360.900	1063.000	375.500	1100.000
GR	300.000	1100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	977.000	1054.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1065.000	0.000	0.000

X1	7550.000	0.000	0.000	0.000	110.000	110.000	110.000	1.000	1.600	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	977.000	1060.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1065.000	0.000	0.000

X1	7550.000	0.000	0.000	0.000	100.000	100.000	100.000	1.000	1.600	0.600
ET	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1045.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1045.000	0.000	0.000

X1	8300.000	11.000	998.000	1030.000	750.000	750.000	750.000	0.000	0.000	0.000
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PRINTED IN U.S.A.

GR	410.000	900.000	400.000	930.000	390.000	970.000	386.000	998.000	381.000	1004.000
GR	380.000	1015.000	381.000	1030.000	386.000	1034.000	390.000	1070.000	400.000	1110.000
GR	410.000	1240.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1050.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1050.000	0.000	0.000

X1	0400.000	0.000	0.000	0.000	100.000	100.000	100.000	1.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1050.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1050.000	0.000	0.000

X1	8600.000	0.000	0.000	0.000	200.000	200.000	200.000	1.000	0.900	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	955.000	1055.000	0.000	0.000

X1	10040.000	12.000	1000.000	1024.000	1440.000	1440.000	1440.000	0.000	0.000	0.000
GR	420.000	500.000	410.000	600.000	400.000	740.000	393.000	1000.000	383.500	1004.000
GR	387.700	1012.000	380.500	1020.000	393.000	1024.000	394.000	1080.000	400.000	1160.000
GR	410.000	1300.000	420.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1057.000	0.000	0.000

OPH-2 SK 1005

X1	10079.000	14.000	986.000	1057.000	39.000	39.000	39.000	0.000	0.000	0.000
X2	10.000	0.000	0.000	0.000	0.000	0.000	0.000	401.000	401.000	0.000
GR	420.000	500.000	410.000	600.000	400.000	740.000	393.400	986.000	393.000	1000.000
GR	387.500	1004.000	387.700	1012.000	388.500	1020.000	393.000	1024.000	393.200	1027.000
GR	394.000	1080.000	400.000	1160.000	410.000	1300.000	420.000	1400.000	0.000	0.000
ET	1.200	1.000	2.700	0.000	30.000	2.000	537.000	1.200	580.100	388.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	986.000	1057.000	0.000	0.000

X1	10101.000	0.000	0.000	0.000	22.000	22.000	22.000	1.000	0.100	0.000
X2	0.000	0.000	1.000	400.000	401.900	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	403.500	402.500	0.000
B1	7.000	825.000	416.500	0.000	925.000	497.400	0.000	986.000	403.000	400.000
B2	1037.000	401.400	399.700	1125.000	463.700	0.000	1225.000	409.800	0.000	1307.000
B3	416.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	980.000	1120.000	0.000	0.000

X1	10130.000	11.000	1000.000	1024.000	29.000	29.000	29.000	1.000	-1.200	0.000
GR	417.600	511.000	394.300	975.000	395.200	1000.000	389.700	1007.000	389.300	1012.000
GR	389.900	1020.000	394.300	1024.000	396.200	1111.000	392.000	1211.000	405.800	1311.000
GR	410.000	1001.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	940.000	1110.000	0.000	0.000

OPH-3 VALLEY

X1	10310.000	0.000	0.000	0.000	180.000	180.000	180.000	1.000	1.200	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	975.000	1080.000	0.000	0.000

OPH-4 VALLEY

X1	11420.000	12.000	1000.000	1022.000	1110.000	1110.000	1110.000	0.000	0.000	0.000
GR	422.300	813.000	409.800	913.000	401.500	960.000	400.600	1000.000	394.600	1004.000
GR	394.200	1013.000	394.500	1022.000	399.700	1020.000	402.500	1107.000	403.100	1113.000
GR	420.800	1213.000	421.900	1422.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	5.000	890.000	1760.000	2200.000	4010.000	2200.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	990.000	1130.000	0.000	0.000

GR	455,700	713,000	445,100	813,000	434,200	880,000	431,500	791,000	433,100	1000,000
GR	427,200	1005,000	427,100	1014,000	427,100	1023,000	433,000	1020,000	445,300	1113,000
GR	454,000	1194,000	0,000	0,000	0,000	0,000	70,000	0,000	650,000	0,000
BT	5,000	390,000	730,000	1030,000	1035,000	1030,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	980,000	1030,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	980,000	1035,000	0,000	0,000

X1	23000,000	8,000	1000,000	1024,000	2060,000	2060,000	2060,000	0,000	0,000	0,000
GR	454,000	800,000	443,200	920,000	443,000	1000,000	440,000	1004,000	432,000	1012,000
GR	458,000	1020,000	443,000	1024,000	461,400	1160,000	0,000	0,000	0,000	0,000
BT	0,000	0,000	0,000	0,000	0,000	5,400	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	965,000	1035,000	0,000	0,000

X1	25000,000	7,000	1000,000	1020,000	1000,000	1000,000	1000,000	0,000	0,000	0,000
GR	469,500	800,000	450,000	910,000	447,000	1000,000	443,200	1004,000	445,200	1012,000
GR	457,000	1020,000	468,000	1120,000	0,000	0,000	0,000	0,000	0,000	0,000
BT	0,000	0,000	0,000	0,000	0,000	5,400	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	955,000	1030,000	0,000	0,000

OPH-V VALLEY

X1	24800,000	10,000	1000,000	1015,000	800,000	800,000	800,000	0,000	0,000	0,000
GR	476,800	790,000	460,500	930,000	453,500	922,000	451,800	990,000	450,600	1000,000
GR	447,800	1002,000	447,400	1007,000	447,600	1012,000	450,000	1015,000	471,500	1088,000
BT	5,000	530,000	720,000	1030,000	1070,000	840,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	940,000	1035,000	0,000	0,000

X1	25700,000	7,000	1000,000	1014,000	800,000	800,000	800,000	0,000	0,000	0,000
GR	475,900	800,000	459,200	922,000	457,000	1000,000	454,000	1004,000	460,000	1014,000
GR	457,000	1014,000	468,000	1060,000	0,000	0,000	0,000	0,000	0,000	0,000
BT	0,000	0,000	0,000	0,000	0,000	7,100	930,000	1035,000	0,000	0,000

X1	25500,000	7,000	1000,000	1014,000	750,000	750,000	750,000	0,000	0,000	0,000
GR	474,000	800,000	464,500	932,000	465,600	1000,000	460,000	1004,000	460,000	1014,000
GR	457,000	1015,000	471,600	1070,000	0,000	0,000	0,000	0,000	0,000	0,000
BT	0,000	0,000	0,000	0,000	0,000	7,100	925,000	1035,000	0,000	0,000

OPH-V VALLEY

X1	27100,000	13,000	1000,000	1018,000	650,000	650,000	650,000	0,000	0,000	0,000
GR	491,600	729,000	472,700	829,000	471,200	847,000	469,200	929,000	469,900	1000,000
GR	465,800	1002,000	465,500	1008,000	465,900	1014,000	469,500	1018,000	469,500	1029,000
BT	475,900	1129,000	477,400	1229,000	469,800	1307,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	980,000	1030,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	50,200	0,000	0,000	0,000	0,000

X1	27200,000	9,000	1000,000	1018,000	100,000	100,000	100,000	0,000	0,000	0,000
GR	489,200	710,000	472,000	860,000	471,200	925,000	470,500	1000,000	466,800	1004,000
GR	466,100	1000,000	466,800	1010,000	470,200	1018,000	486,800	1140,000	0,000	0,000

X1	27300,000	11,000	1000,000	1018,000	100,000	100,000	100,000	0,000	0,000	0,000
GR	495,000	750,000	490,000	500,000	480,000	580,000	471,000	1000,000	467,500	1003,000
GR	466,800	1009,000	467,500	1015,000	471,000	1018,000	480,000	1050,000	490,000	1140,000
GR	495,000	1200,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

X1	27321.000	10.000	1000.000	1012.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	495.000	450.000	490.000	500.000	480.000	580.000	471.000	1000.000	466.900	1000.000
GR	466.900	1012.000	471.000	1012.000	480.000	1050.000	490.000	1140.000	495.000	1200.000
SB	1.250	1.720	3.000	0.000	12.000	0.700	79.100	0.000	468.000	466.900

X1	27478.000	10.000	1000.000	1012.000	157.000	157.000	157.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	475.000	492.700	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	493.500	493.500	0.000
BT	11.000	415.000	499.800	0.000	515.000	496.600	0.000	615.000	494.200	0.000
BT	715.000	492.800	0.000	0.000	492.300	0.000	0.000	492.700	0.000	1000.000
BT	493.700	475.000	1012.000	493.900	475.000	1115.000	495.800	0.000	1215.000	498.700
BT	0.000	1241.000	499.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	495.000	575.000	490.000	770.000	480.000	900.000	472.500	1000.000	468.000	1000.000
GR	468.000	1012.000	472.500	1012.000	480.000	1070.000	490.000	1140.000	495.000	1210.000

X1	27500.000	11.000	1000.000	1018.000	22.000	22.000	22.000	0.000	0.000	0.000
GR	495.000	600.000	490.000	770.000	480.000	900.000	472.500	1000.000	468.000	1000.000
GR	468.200	1009.000	469.000	1015.000	472.500	1018.000	480.000	1070.000	490.000	1140.000
GR	445.000	1210.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	27600.000	12.000	1000.000	1018.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	500.000	800.000	490.000	970.000	480.000	940.000	474.000	955.000	473.500	1000.000
GR	470.000	1003.000	469.400	1009.000	470.000	1015.000	473.500	1018.000	480.000	1050.000
GR	430.000	1140.000	500.000	1200.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	27750.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	1.700	0.000
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X1	27900.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	1.700	0.000
BT	5.000	320.000	650.000	850.000	1515.000	850.000	0.000	0.000	0.000	0.000

X1	28000.000	10.000	1000.000	1020.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	505.000	800.000	480.000	964.000	477.400	1000.000	474.500	1004.000	474.000	1010.000
GR	474.500	1014.000	477.000	1020.000	481.900	1050.000	485.600	1090.000	494.000	1180.000

X1	28100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	1.000	0.000
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X1	28200.000	10.000	1000.000	1020.000	300.000	300.000	300.000	0.000	0.000	0.000
GR	515.600	800.000	484.000	964.000	483.500	1000.000	478.900	1004.000	478.400	1010.000
GR	478.800	1014.000	480.800	1020.000	484.500	1050.000	486.900	1090.000	502.200	1180.000

OPH-11 VALLEY

X1	28810.000	12.000	1000.000	1020.000	410.000	410.000	410.000	0.000	0.000	0.000
GR	500.800	882.000	488.200	980.000	484.500	990.000	484.600	1000.000	483.500	1002.000
GR	483.000	1010.000	483.500	1012.000	484.500	1020.000	487.300	1090.000	488.200	1094.000
GR	500.200	1182.000	508.300	1220.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	28940.000	12.000	1000.000	1020.000	130.000	130.000	130.000	0.000	0.000	0.000
GR	510.000	770.000	500.000	800.000	490.000	970.000	485.500	1000.000	480.500	1002.000
GR	483.800	1010.000	484.500	1018.000	485.500	1020.000	486.000	1040.000	490.000	1060.000
GR	500.000	1180.000	510.000	1300.000	0.000	0.000	0.000	0.000	0.000	0.000

OPH-12 SR 1104

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORN - 01,02

MODIFICATION - 50,51,52,53

T1 ORANGE CO FIA STUDY
T2 PHILS CREEK
T3 100 YR FLOODWAY PROFILE

J1	JCHECK	IND	NINV	IDIR	SIET	METRIC	HVINS	W	WSEL	FW
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	348.650	0.000
J2	NPROF	IPLUT	PREVS	XSECV	XSEC	FN	ALLOC	IRG	CUNIN	ITRACE
	15.000	0.000	-1.000	0.000	0.700	0.000	0.000	0.000	0.000	15.000

*PROF 2

CCNV= 0.100 CCHV= 0.300

SECNO 4500.000

SECNO	DEPTH	CASE	CRINS	WSELK	W	HV	HL	GLOSS	BANK ELEV
TIME	VLRF	VCH	VRDE	XNL	FNH	XRR	ATN	ELMIN	SSIA
SLOPE	XLOBL	XLGH	XLSSH	TRIAL	DC	ICHT	CORAN	TOP TO	LINBT

SECNO	DEPTH	CASE	CRINS	WSELK	W	HV	HL	GLOSS	BANK ELEV
4500.00	10.50	348.86	0.00	348.26	44.20	0.30	0.00	0.00	345.00
5390.	47.	3295.	09.	38.	700.	37.	0.	0.	305.00
0.00	1.29	0.71	1.30	0.120	0.066	0.120	0.000	338.50	965.00
0.000000	0.	0.	0.	0.	0.	0.	0.00	120.00	1085.00

FLOW DISTRIBUTION FOR SECNO= 4500.00 WSEL= 348.65

STA= 965. 975. 1075. 1085.

PER D=	1.0	97.7	1.0
AREA=	36.4	700.0	37.5
VEL=	1.3	0.7	1.3

SECNO 4700.000

SECNO	DEPTH	CASE	CRINS	WSELK	W	HV	HL	GLOSS	BANK ELEV
4700.00	10.41	349.31	0.00	348.81	349.96	0.65	0.67	0.10	345.00
7100.	67.	3058.	5.	41.	464.	40.	5.	0.	305.00
0.01	1.63	6.61	1.62	0.120	0.060	0.120	0.060	338.90	990.00
0.000006	200.	200.	200.	0.	0.	0.	0.00	70.00	1060.00

FLOW DISTRIBUTION FOR SECNO= 4700.00 WSEL= 349.31

STA= 990. 1000. 1050. 1060.

PER D=	1.2	95.0	2.0
AREA=	41.2	462.6	40.0
VEL=	1.6	6.6	1.6

SECNO 5000.000

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

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

YR NATURAL PROFILE

SUMMARY PRINTOUT

SECNO	CNSL	EG	ELLC	EIMIN	10K*S	U
4500.000	348.26	348.57	0.00	55.30	52.68	3390.00
4500.000	348.36	348.70	0.00	55.30	28.49	3390.00
4700.000	348.81	349.38	0.00	55.30	41.68	3190.00
4700.000	349.51	349.96	0.00	55.90	40.86	3190.00
5000.000	350.03	350.69	0.00	53.90	43.71	3190.00
5000.000	350.52	351.15	0.00	55.50	38.28	3190.00
5150.000	350.60	351.33	0.00	54.40	41.55	3190.00
5150.000	351.10	351.71	0.00	54.40	36.60	3190.00
5210.000	350.92	351.71	0.00	54.60	79.07	3190.00
5210.000	351.33	352.53	0.00	54.60	67.90	3190.00
5230.000	351.07	351.82	553.30	54.60	75.20	3190.00
5230.000	351.45	352.12	553.50	54.60	64.08	3190.00
5270.000	351.38	352.06	0.00	54.50	46.59	3190.00
5270.000	351.60	352.57	0.00	54.50	38.08	3190.00
5350.000	351.60	352.63	0.00	54.20	91.02	3190.00
5350.000	351.94	352.92	0.00	54.20	77.08	3190.00
6600.000	362.22	363.04	0.00	55.70	74.60	3190.00
6600.000	362.11	363.11	0.00	55.70	36.11	3190.00
7340.000	368.39	369.53	0.00	56.50	106.01	2470.00
7340.000	368.68	369.68	0.00	56.50	90.27	2470.00
7450.000	369.50	371.19	0.00	56.00	180.08	2470.00
7450.000	369.58	371.21	0.00	56.00	172.15	2470.00
7550.000	371.30	372.99	0.00	56.00	179.62	2470.00
7550.000	371.50	372.98	0.00	56.00	180.93	2470.00
8300.000	387.07	389.26	0.00	58.00	261.90	2470.00
8300.000	387.08	389.26	0.00	58.00	261.00	2470.00

SEGNO	CWSEL	EC	ELLC	ELHN	10K+S	0
8400.000	389.72	390.69	0.00	387.40	78.09	2470.00
8400.000	389.72	390.69	0.00	380.00	78.13	2470.00
8600.000	391.27	392.05	0.00	381.30	57.69	2470.00
8600.000	391.26	392.05	0.00	381.30	58.32	2470.00
10040.000	398.05	398.51	0.00	387.70	33.42	2470.00
10040.000	398.76	399.22	0.00	387.70	42.61	2470.00
10079.000	397.84	398.66	0.00	387.70	70.03	2470.00
10079.000	398.84	399.47	0.00	387.70	61.27	2470.00
10101.000	397.99	398.80	400.80	387.80	76.37	2470.00
10101.000	398.93	399.56	400.80	387.80	61.55	2470.00
10130.000	398.76	398.99	0.00	388.10	29.29	2470.00
10130.000	399.41	399.71	0.00	388.10	29.64	2470.00
10310.000	399.30	399.63	0.00	388.30	42.52	2470.00
10310.000	399.97	400.38	0.00	388.30	43.16	2470.00
11420.000	404.31	404.81	0.00	390.20	50.33	2470.00
11420.000	404.88	405.47	0.00	390.20	46.97	2470.00
14580.000	415.68	415.56	0.00	405.20	23.55	2200.00
14580.000	416.28	416.56	0.00	405.20	26.56	2200.00
16500.000	421.13	421.50	0.00	411.80	42.41	2060.00
16500.000	422.07	422.40	0.00	411.80	35.94	2060.00
17000.000	423.24	423.60	0.00	411.50	41.32	2060.00
17000.000	424.04	424.53	0.00	411.50	46.62	2060.00
17050.000	423.26	424.03	0.00	411.70	92.28	2060.00
17050.000	424.27	424.82	0.00	411.70	63.75	2060.00
17070.000	423.34	424.12	424.50	411.70	45.34	2060.00
17070.000	424.34	424.88	424.50	411.70	61.45	2060.00
17100.000	423.99	424.33	0.00	411.80	54.71	2060.00
17100.000	424.61	425.00	0.00	411.80	40.93	2060.00
17280.000	424.72	425.03	0.00	411.60	37.15	2060.00
17280.000	425.37	425.75	0.00	411.60	37.68	2060.00
20940.000	436.33	436.53	0.00	427.10	26.40	1820.00
20940.000	436.90	437.20	0.00	427.10	23.77	1820.00
23000.000	444.33	445.02	0.00	435.00	120.64	1030.00
23000.000	444.69	445.49	0.00	435.00	116.55	1030.00
24000.000	451.01	451.27	0.00	447.20	37.73	1030.00
24000.000	451.39	451.71	0.00	447.20	38.05	1030.00
24800.000	454.75	455.17	0.00	447.40	63.74	1030.00
24800.000	455.07	455.51	0.00	447.40	59.80	1030.00

BEENO	CMBEL	EC	ELC	EMIN	LOK-8	0
25700.000	461.14	461.25	0.00	65.00	74.00	940.00
25700.000	461.39	461.58	0.00	65.00	76.84	940.00
26450.000	466.50	466.84	0.00	68.00	71.12	940.00
26450.000	466.79	467.18	0.00	68.00	71.89	940.00
27100.000	471.40	471.68	0.00	69.50	77.00	940.00
27100.000	471.72	472.07	0.00	69.50	79.46	940.00
27200.000	472.15	472.92	0.00	66.10	163.85	940.00
27200.000	472.30	473.57	0.00	66.10	213.47	940.00
27300.000	473.60	474.34	0.00	66.00	98.76	940.00
27300.000	474.24	474.90	0.00	66.00	84.63	940.00
* 27320.000	472.65	475.53	0.00	66.90	653.19	940.00
27320.000	473.52	475.09	0.00	66.90	423.91	940.00
* 27475.000	475.56	477.23	475.00	66.00	297.87	940.00
* 27478.000	475.68	477.29	475.00	66.00	283.60	940.00
27500.000	477.27	477.52	0.00	66.20	28.10	940.00
27500.000	477.25	477.59	0.00	66.20	34.79	940.00
27600.000	477.59	477.81	0.00	66.40	38.27	940.00
27600.000	477.60	478.03	0.00	66.40	49.81	940.00
27750.000	478.10	478.54	0.00	67.10	70.36	940.00
27750.000	478.41	479.05	0.00	67.10	84.62	940.00
27900.000	479.27	479.89	0.00	67.80	100.68	940.00
27900.000	479.74	480.51	0.00	67.80	106.94	940.00
28000.000	480.29	480.91	0.00	67.00	95.29	850.00
28000.000	480.84	481.57	0.00	67.00	65.74	850.00
28100.000	481.25	481.89	0.00	67.00	99.16	850.00
28100.000	481.55	482.14	0.00	67.00	82.67	850.00
28400.000	484.16	484.68	0.00	67.40	86.90	850.00
28400.000	484.17	484.76	0.00	67.40	92.80	850.00
28810.000	487.87	488.26	0.00	67.00	83.90	850.00
28810.000	488.16	488.66	0.00	68.00	97.10	850.00
28940.000	488.91	489.38	0.00	68.80	91.61	850.00
28940.000	489.31	489.82	0.00	68.80	82.03	850.00
29110.000	490.15	490.73	0.00	68.00	68.10	850.00
29110.000	490.65	491.10	0.00	68.90	69.06	850.00
29130.000	490.36	491.48	493.20	68.90	164.90	850.00
29130.000	490.66	491.66	493.20	68.90	137.74	850.00
29200.000	491.82	492.06	0.00	68.00	87.81	850.00
29200.000	491.89	492.30	0.00	68.80	54.89	850.00

YR NATURAL PROFILE

SUMMARY PRINTOUT

SECNO	CONSEL	89TA	STCHL	STCHR	ENDST	TOPWID
4500.000	348.26	900.09	975.00	1075.00	1221.56	321.46
4500.000	348.86	965.00	975.00	1075.00	1085.00	120.00
4700.000	348.81	900.91	1000.00	1050.00	1110.90	210.00
4700.000	349.31	990.00	1000.00	1050.00	1060.00	70.00
5000.000	350.03	979.76	1000.00	1050.00	1100.54	120.78
5000.000	350.52	990.00	1000.00	1050.00	1060.00	70.00
5150.000	350.60	987.52	1000.00	1050.00	1032.01	94.69
5150.000	351.10	990.00	1000.00	1050.00	1060.00	70.00
5210.000	350.92	990.00	990.00	1060.00	1064.00	74.00
5210.000	351.34	990.00	990.00	1060.00	1064.00	74.00
5230.000	351.07	990.00	990.00	1060.00	1064.00	74.00
5230.000	351.45	990.00	990.00	1064.00	1064.00	74.00
5270.000	351.38	967.20	1000.00	1040.00	1065.54	98.26
5270.000	351.69	990.00	1000.00	1040.00	1055.00	65.00
5350.000	351.60	971.60	1000.00	1040.00	1059.39	87.73
5350.000	351.94	970.63	1000.00	1040.00	1060.00	89.37
6600.000	362.22	911.18	1000.00	1040.00	1073.30	162.13
6600.000	362.16	960.00	1000.00	1040.00	1055.00	95.00
7340.000	368.33	975.67	1000.00	1030.00	1069.52	93.85
7340.000	368.68	975.00	1000.00	1030.00	1068.00	93.00
7450.000	369.50	979.20	1000.00	1030.00	1065.63	86.43
7450.000	369.53	980.00	1000.00	1030.00	1065.00	85.00
7550.000	371.30	979.16	1000.00	1030.00	1065.65	86.47
7550.000	371.30	980.00	1000.00	1030.00	1065.00	85.00
8300.000	387.07	990.54	998.00	1030.00	1043.60	53.06
8300.000	387.08	990.52	998.00	1030.00	1043.00	52.00
8400.000	389.72	970.75	998.00	1030.00	1063.02	89.26
8400.000	389.72	980.00	998.00	1030.00	1050.00	70.00
8600.000	391.27	970.21	998.00	1030.00	1069.72	99.51
8600.000	391.26	980.00	998.00	1030.00	1050.00	70.00
10040.000	398.05	812.59	1000.00	1020.00	1133.94	321.36
10040.000	398.76	955.00	1000.00	1020.00	1059.00	100.00
10079.000	397.84	986.00	986.00	1037.00	1037.00	51.00
10079.000	398.84	986.00	986.00	1037.00	1037.00	51.00
10101.000	397.99	986.00	986.00	1037.00	1037.00	51.00
10101.000	398.93	986.00	986.00	1037.00	1037.00	51.00

SEONO	CMBEL	SBTA	STCHL	STCHH	ENDBT	TORWID
10130.000	398.76	959.44	1000.00	1027.00	1213.76	254.32
10130.000	399.01	990.00	1000.00	1028.00	1120.00	130.00
10310.000	399.50	961.25	1000.00	1024.00	1197.23	235.98
10310.000	399.97	990.00	1000.00	1024.00	1110.00	120.00
11420.000	404.31	943.34	1000.00	1027.00	1119.05	176.51
11420.000	404.88	975.00	1000.00	1028.00	1080.00	105.00
14580.000	415.38	974.60	1000.00	1031.00	1235.00	260.40
14580.000	416.28	990.00	1000.00	1031.00	1130.00	140.00
16500.000	421.13	880.74	1000.00	1027.00	1073.70	192.60
16500.000	422.07	940.00	1000.00	1027.00	1040.00	100.00
17000.000	423.28	849.35	1000.00	1026.00	1141.64	292.20
17000.000	424.84	955.00	1000.00	1027.00	1055.00	160.00
17050.000	423.26	980.00	980.00	1037.00	1032.00	52.00
17050.000	424.27	980.00	980.00	1037.00	1032.00	52.00
17070.000	423.39	980.00	980.00	1037.00	1032.00	52.00
17070.000	424.34	980.00	980.00	1037.00	1032.00	52.00
17100.000	424.00	866.60	1000.00	1027.00	1143.32	276.64
17100.000	424.61	955.00	1000.00	1027.00	1060.00	105.00
17280.000	424.72	881.77	1000.00	1027.00	1119.76	237.99
17280.000	425.57	985.00	1000.00	1027.00	1090.00	105.00
20940.000	436.33	866.89	1000.00	1027.00	1051.03	184.15
20940.000	436.96	920.00	1000.00	1027.00	1040.00	120.00
23000.000	444.33	911.45	1000.00	1027.00	1033.80	122.34
23000.000	444.69	980.00	1000.00	1027.00	1055.00	55.00
24000.000	451.01	904.37	1000.00	1027.00	1039.08	134.75
24000.000	451.39	965.00	1000.00	1027.00	1035.00	70.00
24800.000	454.75	915.92	1000.00	1017.00	1031.14	115.23
24800.000	455.07	955.00	1000.00	1017.00	1030.00	75.00
25700.000	461.19	906.62	1000.00	1017.00	1030.51	127.89
25700.000	461.39	940.00	1000.00	1018.00	1055.00	95.00
26450.000	466.50	904.06	1000.00	1018.00	1035.65	151.59
26450.000	466.74	950.00	1000.00	1018.00	1035.00	95.00
27100.000	471.40	844.50	1000.00	1017.00	1074.69	230.11
27100.000	471.72	925.00	1000.00	1018.00	1035.00	110.00
27200.000	472.15	858.63	1000.00	1018.00	1053.03	174.40
27200.000	472.30	984.00	1000.00	1018.00	1030.00	50.00
27300.000	473.60	878.53	1000.00	1017.00	1027.25	108.73
27300.000	474.24	984.00	1000.00	1018.00	1029.51	45.51

SECNO	WSEL	SSFA	STEHL	STCHL	ENDST	TOPWID
27321.000	473.55	1000.00	1000.00	1012.00	1012.00	12.00
27321.000	473.52	1000.00	1000.00	1012.00	1012.00	12.00
27478.000	475.56	1000.00	1000.00	1011.00	1012.00	12.00
27478.000	475.68	1000.00	1000.00	1011.00	1012.00	12.00
27500.000	477.27	984.00	1000.00	1011.00	1034.00	50.00
27500.000	477.25	984.00	1000.00	1011.00	1034.00	50.00
27600.000	477.59	946.01	1000.00	1011.00	1034.16	92.14
27600.000	477.60	984.00	1000.00	1011.00	1034.00	50.00
27750.000	478.10	984.00	1000.00	1011.00	1035.30	49.78
27750.000	478.41	984.00	1000.00	1011.00	1035.78	49.78
27900.000	479.27	950.31	1000.00	1011.00	1029.70	79.39
27900.000	479.74	984.00	1000.00	1011.00	1032.00	48.00
28000.000	480.20	982.10	1000.00	1021.00	1035.00	50.00
28000.000	480.88	985.00	1000.00	1021.00	1035.00	50.00
28100.000	481.25	962.40	1000.00	1021.00	1038.96	76.55
28100.000	481.55	985.00	1000.00	1021.00	1035.00	50.00
28400.000	484.17	985.00	1000.00	1021.00	1035.00	50.00
28400.000	484.17	985.00	1000.00	1021.00	1035.00	50.00
28810.000	487.87	985.00	1000.00	1021.00	1092.53	111.63
28810.000	488.16	985.00	1000.00	1021.00	1035.00	50.00
28940.000	489.31	985.00	1000.00	1021.00	1035.00	50.00
28940.000	489.31	985.00	1000.00	1021.00	1035.00	50.00
29110.000	490.55	974.98	1000.00	1021.00	1056.27	81.29
29110.000	490.65	985.00	1000.00	1021.00	1035.00	50.00
29130.000	490.66	1000.00	1000.00	1020.00	1020.00	20.00
29130.000	490.66	1000.00	1000.00	1020.00	1020.00	20.00
29200.000	491.62	931.67	1000.00	1020.00	1042.95	111.28
29200.000	491.83	985.00	1000.00	1021.00	1035.00	50.00

SUMMARY OF ERRORS

- CAUTION SECNO=27321.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=27321.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=27321.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=27478.000 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO=27478.000 PROFILE= 2 HYDRAULIC JUMP D.S.

FLOODWAY DATA, YR NATURAL PROFILE
 PROFILE NO. 2

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION DIFFERENCE		
				WITH FLOODWAY	WITHOUT FLOODWAY	
4500.000	120.	770.	4.4	348.9	348.3	0.6
4700.000	70.	544.	5.9	349.3	348.8	0.5
5000.000	70.	549.	5.8	350.5	350.0	0.5
5150.000	70.	550.	5.8	351.1	350.7	0.4
5210.000	74.	477.	6.7	351.3	350.9	0.4
5250.000	74.	486.	6.6	351.5	351.1	0.4
5270.000	65.	507.	6.3	351.6	351.4	0.2
5350.000	89.	472.	6.8	351.9	351.6	0.3
6600.000	95.	483.	6.6	362.2	362.2	0.0
7340.000	95.	390.	6.3	360.7	360.4	0.3
7450.000	85.	268.	8.6	369.6	369.5	0.1
7550.000	85.	282.	8.8	371.3	371.3	0.0
8300.000	52.	216.	11.5	387.1	387.1	0.0
8400.000	70.	363.	6.4	389.7	389.7	0.0
8600.000	70.	406.	6.0	391.3	391.3	0.0
10040.000	100.	636.	5.9	398.7	398.0	0.7
10079.000	51.	390.	6.3	398.8	397.8	1.0
10161.000	51.	390.	6.3	398.9	398.0	0.9
10130.000	130.	605.	5.1	399.5	398.8	0.7
10310.000	120.	684.	5.6	400.6	399.3	0.7
11420.000	105.	580.	4.2	404.9	404.5	0.6
14500.000	140.	743.	3.0	416.3	415.4	0.9
16500.000	100.	568.	3.6	422.0	421.1	0.9
17000.000	130.	518.	4.0	424.1	423.3	0.8
17050.000	52.	345.	6.0	424.3	423.3	1.0
17070.000	52.	349.	5.9	424.4	423.4	1.0
17100.000	105.	552.	5.7	424.6	424.0	0.6
17280.000	105.	542.	5.5	425.3	424.7	0.6
20940.000	120.	650.	2.8	436.9	436.3	0.6
23000.000	55.	172.	6.0	444.7	444.3	0.4
24000.000	70.	317.	3.3	451.4	451.0	0.4
24800.000	75.	287.	3.6	455.1	454.8	0.3
25700.000	95.	327.	2.9	461.4	461.2	0.2
26450.000	55.	270.	3.4	466.8	466.5	0.3
27100.000	110.	299.	5.1	471.7	471.4	0.3
27200.000	50.	155.	7.1	472.3	472.1	0.2
27300.000	46.	183.	5.1	474.2	473.6	0.6
27321.000	12.	80.	11.8	473.5	472.6	0.9
27478.000	12.	92.	10.2	475.1	475.0	0.1
27500.000	50.	267.	3.5	477.3	477.3	0.0
27600.000	50.	353.	4.0	477.6	477.6	0.0
27750.000	50.	109.	5.0	478.4	478.1	0.3
27900.000	48.	171.	5.5	479.8	479.3	0.5
28000.000	50.	195.	4.4	480.0	480.0	0.0
28100.000	50.	179.	4.8	481.5	481.2	0.3
28400.000	50.	180.	4.7	484.2	484.2	0.0
28810.000	50.	191.	4.4	486.2	487.4	0.3
28940.000	50.	195.	4.4	489.3	488.9	0.4
29110.000	50.	207.	4.1	490.7	490.4	0.3
29130.000	20.	106.	8.0	490.7	490.4	0.3

FLOODWAY DATA, YR NATURAL PROFILE

PROFILE NO. STATION WIDTH SECTION MEAN VELOCITY WATER SURFACE ELEVATION WITHOUT DIFFERENCE

29200.000 50. 214. 4.0 491.9 491.8 0.1