Prepared For:

WESTERN NUCLEAR, INC.
SHERWOOD PROJECT
Wellpinit, Washington

SHERWOOD TAILING RECLAMATION

CONSTRUCTION COMPLETION REPORT

VOLUME 3 of 3

Prepared By:

SHEPHERD MILLER, INC.
Fort Collins, Colorado

JUNE 1997

APPENDIX Z

WDOH INSPECTION REPORTS

WDOH Construction Inspection Report

Day/Date Mon. 3/11/96

Weather Conditions Cloudy - Scattered Temp 45 °F

Field Engineer Dorothy Stoffel

~~Contractor(s)~~

Supervisor(s) Corn Abuta (contractor site supervisors) Personnel (number of operators, laborers, etc)

Equipment Dozers & Dump Trucks

Work Performed ① Placement of fill at ~~[illegible]~~ southeast area of impoundment

② Reviewed quarry site with Corn & Mo located at mine. Proposed Rock visually inspected.

Specific Condition Verified/Inspected

Comments ② Hiked along top berm of mine to proposed quarry site. In general quartz monzonite very competent and uniform in appearance. Some areas of intense jointing; however one area identified where rock mass solid. Took small sledge to various boulders - rock solid in boulders that don't have visual ✗ check if continued on reverse side

Corrective Actions (check appropriate/explain as necessary) ____none; ____yes, see below

____STOP WORK ____ repair ____ rework ____ change design ____waiver (as-is)

Explain

WDOH notification ____QA Manager ____ WDOH Oly ____ WDOH Rhld

WNI Communications Corn reminded me to provide field report from February 15, 1996. I agreed to fax it to him on 3/12.

Have WNI modified their QA/QC forms? X yes (attached); ____no

Is there a new construction schedule? X yes (attached); ____no

Pre bid meeting scheduled April 10
Construction start up - May 15

Inspector's Signature Dorothy Stoffel Date 3/11/96

Distribution: X WDOH Oly; X WNI; ____WDOE DSS; X WDOH Rhld; X File

Form QA-F3 Rev 1

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continued from page 6.

fractures. Agree with Corr that through rock processing (i.e. blasting, movement and crushing) durable rock will segregate from sub-standard rock. Corr reviewed proposed quarry & processing development.

① Reviewed borrow area presently being utilized for interim cover placement at southeast area of impoundment. Borrow area primarily tipped weathered monzonite with some alluvial sand. Encountered a monzonite zone, approx. 500 yards, that doesn't break down and meet spec. Discussed with Corr options of either mixing the material to achieve the cover spec or utilizing it at another area. Corr will document where material is placed in his daily summary.

The material that is actually being placed is very suitable weathered quartz monzonite and alluvial material. Relative high fraction of silts & clays — meets spec of <10% greater than 6" and visually voids are filled.

WDOH Construction Inspection Report

Day/Date Mon. July 8, 96

Weather Conditions Sunny Temp 85 °F

Field Engineer Corr Sabitz

Contractors(s) Industrial Contractors

Supervisor(s) _____ (contractor site supervisors) Personnel _____ (number of operators, laborers, etc)

Equipment 8 or 9 scrapers, dozers

Work Performed ① Rock Quarry
② Ditch Excavation
③ Cover Placement

Specific Condition Verified/Inspected ① Rock suitability ② Cover Material

Comments ① Reviewed rock pile at site plaster a week ago. Corr estimates rock volume at 10,000+ yds therefore just one rock durability test. Visual inspection indicates that the predominant rock type is dense granite that will likely satisfy rock durability criteria. There are zones within the pile that indicate weathering and less competent (X) check if continued on reverse side suitable

Corrective Actions (check appropriate/explain as necessary) X none; ____ yes, see below

____ STOP WORK ____ repair ____ rework ____ change design ____ waiver (as-is)

Explain _____

WDOH notification ____ QA Manager ____ WDOH Oly ____ WDOH Rhld

WNI Communications Asked Corr to notify me prior to blasting for ditch excavation (S.W. side Soln Holding Pond in order to establish areal extent.

Have WNI modified their QA/QC forms? ____ yes (attached); ____ no

Is there a new construction schedule? ____ yes (attached); ____ no

Inspector's Signature Dorothy A. Stoffel Date 7/8/96

Distribution: X WDOH Oly; ____ WNI; ____ WDOE DSS; ____ WDOH Rhld; X File

Form QA-F3 Rev 1

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rock. Because the initial blast zone is at the top of the quarry, weathered zones are likely to occur in this section. The less competent rock should be eliminated during processing.

(2) Reviewed the ditch excavation areas. Corn had identified an area on NW side of the Solution Holding Pond where dense rock associated with dikes has been encountered. Excavation work has obscured the morphology of the dikes. However, I examined the rock float with a hand lens. The rock float associated with the dikes has much more quartz than quartz monzonite with minimal sheet silicates visible. Corn projects that blasting will be required in order to excavate the ditch in this area. The material will likely then be used as fill for the Solution Holding Pond.

(3) Examined material being placed as cover on tailings impoundment. The material meets specs and also continues to far exceed the modeled sand with much greater fraction passing #200 sieve.

WDOH Construction Inspection Report

Day/Date Thurs. 7/18/96

Weather Conditions Cloudy Part Sun Temp 70 °F

Field ~~Inspector~~ WDOH Inspector – Dorothy Stoffel with John Riley as peer review

Contractors(s) Industrial Contractors
REA – Rock QA/QC oversight

Supervisor(s) WNI Corn Abeyta Personnel ~~Contractor (Inspection)~~ (number of operators, laborers, etc)

Equipment In impoundment area – dozers, scrapers
Screen plants – dozers

Work Performed (1) Reviewed cover placement & ditch excavation. (2) Rock production (3) Reviewed potential locations for MW-2A replacement

Specific Condition Verified/Inspected (1) Cover material meets specs.

Comments (1) Cover material obtained from ditch excavation on east side of tailings impoundment & NW side solution holding pond. Material meets specs & continues to far exceed materials utilized in water model. Some borrow material may be classified as clay – usually found in these shear zones. There is still waste yet to be buried. ☒ check if continued on reverse side

Corrective Actions (check appropriate/explain as necessary) X none; ____ yes, see below
____ STOP WORK ____ repair ____ rework ____ change design ____ waiver (as-is)

Explain

WDOH notification ____ QA Manager ____ WDOH Oly ____ WDOH Rhld

WNI Communications Asked Corn to notify me in advance of next blast at the quarry.

Have WNI modified their QA/QC forms? ____ yes (attached); X no

Is there a new construction schedule? ____ yes (attached); X no

Inspector's Signature Dorothy B. Stoffel Date 7/18/96

Distribution: X WDOH Oly; X WNI; ____ WDOE DSS; X WDOH Rhld; X File

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① Continued from front

in tailings impoundment. Observed the area where blast occured last week - W side Solution Holding Pond. Excavation has proceeded in this area & ditch almost at grade.

② Reviewed area where screen plant & conveyors have been set up for rock production. Rock from first quarry blast is in the process of being segregated into size piles. Largest rock size D50 -15" looked at close up. Rock typically appears as competent & the sub-standard rock eliminated during processing.

③ Reviewed the 2 potential locations for replacement of MW-2A with John Riley: a) locate new well north of excavated/rocked ditch; b) locate new well in proximity to 2 and 2A. John concurs that both locations are suitable for establishing a new location for a background monitoring well (i.e. not in the potential influence of the tailings impoundment.)

WDOH Construction Inspection Report

Day/Date Tues 9/17/96

Weather Conditions Sunny with Clouds Temp 60°F

Field Engineer Carr Abeita developing

Contractors(s) Industrial Contractors

Supervisor(s) _____ (contractor site supervisors) Personnel _____ (number of operators, laborers, etc)

Equipment Scrapers & Rollers

Work Performed (1) Seeding of top soil & nearing completion of all earthwork
(2) Rock placement & projected last quarry shot

Specific Condition Verified/Inspected (1) Completion of earthwork
Comments (2) Rock placement
(1) Significant progress on mitigation restoration. (2) Site has been completely cleared at tailing impoundment. Cover completed with only top soil placement in few areas needed. Ditch excavation nearing completion. Project earthwork completion by end of the week. (X) check if continued on reverse side on back

Corrective Actions (check appropriate/explain as necessary) X none; ____ yes, see below
____ STOP WORK ____ repair ____ rework ____ change design ____ waiver (as-is)
Explain _____

WDOH notification ____ QA Manager ____ WDOH Oly ____ WDOH Rhld
WNI Communications Carr Abeita will notify us when in place starting with cover will be completed. (DESHAPS testing)
Have WNI modified their QA/QC forms? ____ yes (attached); ____ no
Is there a new construction schedule? ____ yes (attached); X no

Inspector's Signature Dorothy R. Stoffel Date 9/17/96

Distribution: X WDOH Oly; X WNI; ____ WDOE DSS; X WDOH Rhld; X File
Form QA-F3 Rev 1

(2) Observed rock placement at confluence as well as 3" rock placement along ditch channel. Also observed rock placement at outfall of cover swale & strip of rock being placed at toe of margin slope. (see photos)

Observed and photographed the probable last quarry shot. Walked on top of the fresh blasted rock. Rock in general appears more uniform with more quartz than the initial shot at the top of the quarry. Rock can generally be described in the granite chemical composition rather than quartz monzonite chemical range. Minor amounts of biotite and other sheet silicates. Rock in general appears more competent than initial shot.

SHERWOOD PROJECT
RESPONSES TO WDOH COMMENTS ON THE DECEMBER 1994 TAILING RECLAMATION PLAN

Prepared for

Western Nuclear, Inc.
Sherwood Mine
Wellpinit, Washington

Prepared by

Shepherd Miller Inc.
1600 Specht Point Drive, Suite F
Fort Collins, CO 80525

August 1995

SMI
Shepherd Miller, Inc.

2.0 VEGETATION IMPACT ANALYSIS

Q: <u>Question No. 5, WDOH letter dated May 3, 1995</u> - **Trees growing in the diversion channel: Your analysis must include how you will deal with trees growing in the diversion channel and how that affects water flow and deposition of sediments.**

2.1 Introduction

Diversion channel design in the 12/94 TRP was performed using the Corps of Engineers' HEC-2 (1991) water surface profile model with Manning's n values corresponding to the median stone diameter (d_{50}) of the riprap to be placed in the channel. For this response report, Manning's n values were modified to correspond to a vegetative condition. Further, 1.5 feet of sediment depth predicted to accumulate in the diversion channel, as presented in Table 1.5, was included in the analysis for the resulting determination of the Probable Maximum Flood (PMF) depth.

2.2 Hydraulic Analysis of Vegetation Impacts

Chow (1959) lists a range of Manning's n values for excavated channels which become vegetated due to a lack of maintenance. These n values range from 0.05 to 0.1 depending on the extent of vegetation. The n value for dense brush and high stage is 0.1. In practice, selection of Manning's n for channels is also dependent on the size of the channel and uniformity of the channel cross section. Large channels with uniform cross sections generally have lower n values. Since the Sherwood diversion channel is a very large channel with a uniform cross section, using a Manning's n of 0.1 to analyze the impact of vegetation on diversion channel depths is conservative.

As an additional level of conservatism, it was assumed for this report that the vegetation would establish itself in a bed which would be 1.5 feet above the riprap as a result of sediment deposition in the channel. Although HEC-6 modeling predicts 1.5 feet of sediment deposition only at Cross Section 5000, this sediment depth is assumed to exist at all cross sections.

HEC-2 results for the PMF with a Manning's n value of 0.1 and 1.5 feet of sediment at all cross sections are included as Attachment 2.

The results from the combination of increased channel roughness due to the presence of vegetation and 1.5 feet of sediment on the channel bed are presented in Table 2.1. In summary, the presence of vegetation and sediment in the channel will result in increased PMF water levels. These increases vary from about 1.7 to 6.9 feet.

TABLE 2.1 COMPARISON OF PMF DEPTHS, WITH AND WITHOUT SEDIMENT AND VEGETATION

STATION	CHANNEL BOTTOM ELEV. (ft)	1) TRP RESULTS, n = 0.031 (NO SEDIMENT OR VEGETATIO		2) MODIFIED RESULTS, n = 0.1 (1.5 ft SEDIMENT AND VEGETATION		DIFFERENCE BETWEEN MODIFIED PMF WATER DEPTHS AND TRP PMF WATER DEPTHS (ft)
		WATER ELEV. 1) (ft)	WATER DEPTH 1) (ft)	PMF WATER ELEV. 2) (ft)	PMF WATER DEPTH 2) (ft)	
0	2087.00	2100.42	13.42	2107.32	20.32	6.90
200	2087.50	2100.92	13.42	2107.83	20.33	6.91
400	2088.00	2101.42	13.42	2108.33	20.33	6.91
600	2088.50	2101.92	13.42	2108.83	20.33	6.91
800	2089.00	2102.42	13.42	2109.35	20.35	6.93
1000	2089.50	2102.92	13.42	2109.85	20.35	6.93
1200	2090.00	2103.42	13.42	2110.35	20.35	6.93
1400	2090.50	2103.93	13.43	2110.85	20.35	6.92
1600	2091.00	2104.43	13.43	2111.35	20.35	6.92
1800	2091.50	2104.93	13.43	2111.86	20.36	6.93
2000	2092.00	2105.44	13.44	2112.34	20.34	6.90
2200	2092.50	2105.93	13.43	2112.81	20.31	6.88
2400	2093.00	2106.80	13.80	2113.24	20.24	6.44
2600	2093.50	2107.07	13.57	2113.59	20.09	6.52
2800	2094.00	2107.36	13.36	2113.95	19.95	6.59
3000	2094.50	2107.69	13.19	2114.32	19.82	6.63
3200	2095.00	2108.03	13.03	2114.71	19.71	6.68
3400	2095.50	2108.41	12.91	2115.10	19.60	6.69
3600	2096.00	2108.80	12.80	2115.51	19.51	6.71
3800	2096.50	2109.21	12.71	2115.93	19.43	6.72
4000	2097.00	2109.64	12.64	2116.37	19.37	6.73
4200	2097.50	2110.08	12.58	2116.76	19.26	6.68
4400	2098.00	2110.78	12.78	2117.20	19.20	6.42
4600	2098.50	2111.08	12.58	2117.54	19.04	6.46
4800	2099.00	2111.40	12.40	2117.72	18.72	6.32
5000	2099.50	2111.76	12.26	2118.26	18.76	6.50
5200	2100.00	2112.30	12.30	2118.61	18.61	6.31
5400	2101.50	2112.63	11.13	2118.94	17.44	6.31
5600	2103.00	2112.95	9.95	2119.36	16.36	6.41
5800	2104.50	2113.87	9.37	2120.02	15.52	6.15
6000	2106.00	2115.19	9.19	2120.90	14.90	5.71
6200	2107.50	2116.66	9.16	2121.99	14.49	5.33
6400	2109.00	2118.16	9.16	2123.15	14.15	4.99
6600	2110.50	2120.37	9.87	2124.13	13.63	3.76
6800	2112.00	2120.51	8.51	2124.53	12.53	4.02
7000	2113.50	2121.48	7.98	2125.13	11.63	3.65
7200	2115.00	2121.51	6.51	2125.22	10.22	3.71
7400	2116.50	2121.63	5.13	2125.39	8.89	3.76
7600	2118.00	2122.14	4.14	2125.77	7.77	3.63
7800	2119.50	2123.43	3.93	2126.50	7.00	3.07
8000	2121.00	2124.99	3.99	2127.65	6.65	2.66
8200	2122.50	2126.48	3.98	2129.04	6.54	2.56
8400	2124.00	2127.97	3.97	2130.38	6.38	2.41
8600	2125.50	2129.15	3.65	2131.65	6.15	2.50

The existing channel design will be modified in some areas to include the impacts of sedimentation and vegetation in the channel. A complete description is provided in section 5. In general, the channel will be modified in areas where the existing channel cross-section is not large enough to pass the peak discharge during the PMF. The channel will be enlarged by placing additional fill on the inside bank (side adjacent to the tailings impoundment).

It is not proposed to increase the height of riprap along the sides of the diversion channel beyond that presented in the 12/94 TRP. Prior to the establishment of vegetation the riprap will extend above the PMF depth. After vegetation is established the PMF elevations will be higher but the channel bank will be protected against erosion by the vegetation. The peak velocity (corresponding to the peak PMF discharge) for flow located in the portion of the channel bank above the riprap ranges from about 1.0 to 1.5 feet/sec (See Table 5.2). The NRC in its STP on Erosion Protection (1990), recommends that the maximum permissible velocity for grassed areas be limited to 5 feet per second. Since the predicted peak velocity of 1.5 feet/sec is much less than the permissible velocity, the channel bank areas above the riprapped areas will remain erosionally stable during a PMF.

3.0 DIVERSION CHANNEL DESIGN

Q: **<u>Question No. 3, WDOH letter dated June 23, 1995</u> - Froude Number at nodes between natural drainages and engineered channel. Per Section 17 (Page 53) of the Corps of Engineers (COE) Manual entitled, "Hydraulic Design of Flood Control Channels," a concern has been identified regarding Froude Number. Specifically, what is the Froude Number at the point where the natural drainage joins the engineered channel (e.g., where the natural gully enters the engineered riprap areas of the natural drainage basins). What is the calculated Froude Number in the vicinity of the intercept nodes between the natural drainages and the engineered diversion channel? Does this Froude Number determination affect the diversion channel assurance of design performance?**

3.1 Froude Numbers at Channel Confluences

When designing flood channel junctions (confluences), where natural drainages enter a diversion channel, the best hydraulic performance is obtained when the bottom slopes of the confluences and the diversion channel are nearly equal. Unfortunately, this is not possible for the diversion channel at Sherwood because the steep natural topography adjacent to the channel requires that the confluences have fairly steep slopes when compared to the slopes of the diversion channel. Table 3.1 compares

TABLE 5.2

REQUIRED CHANNEL DEPTH FOR PMF ALLOWING FOR TREES GROWING
(CHANNEL, SEDIMENT DEPOSITION, AND SUPERELEVATION

STATION	CHANNEL BOTTOM ELEVATION	[1] PMF ELEVATION CHANNEL WITHOUT VEGETATION OR SEDIMENT (ft)	[2] PMF ELEVATION CHANNEL WITH TREES AND 2.0 FT. OF SEDIMENT (ft)	SUPER-ELEVATION (ft)	[3] REQUIRED TOP OF CHANNEL ELEVATION (ft)	MINIMUM CHANNEL DEPTH REQUIRED (ft)	RIGHT OVERBANK VELOCITY (ft/s)	CHANNEL DEPTH PROPOSED IN TRP (ft)	ADDITIONAL CHANNEL DEPTH REQUIRED (ft)	ADDITIONAL CHANNEL DEPTH PROPOSED (ft)
0 +00	2087.00	2100.42	2107.43	0.00	2108.43	21.43		15.0	6.4	7.0
1 +00	2087.25	2100.67	2107.63	0.00	2108.63	21.38		15.0	6.4	7.0
2 +00	2087.50	2100.92	2107.83	0.00	2108.83	21.33	1.5	15.0	6.3	7.0
3 +00	2087.75	2101.17	2108.13	0.00	2109.13	21.38		15.0	6.4	7.0
4 +00	2088.00	2101.42	2108.42	0.00	2109.42	21.42	1.5	15.0	6.4	7.0
5 +00	2088.25	2101.67	2108.67	0.00	2109.67	21.42		15.0	6.4	7.0
6 +00	2088.50	2101.92	2108.92	0.00	2109.92	21.42	1.5	15.0	6.4	7.0
7 +00	2088.75	2102.17	2109.17	0.00	2110.17	21.42	1.5	15.0	6.4	7.0
8 +00	2089.00	2102.42	2109.44	0.00	2110.44	21.44		15.0	6.4	7.0
9 +00	2089.25	2102.67	2109.69	0.00	2110.69	21.44		15.0	6.4	7.0
10 +00	2089.50	2102.92	2109.94	0.00	2110.94	21.44	1.5	15.0	6.4	7.0
11 +00	2089.75	2103.17	2110.19	0.09	2111.28	21.53		15.0	6.5	7.0
12 +00	2090.00	2103.42	2110.44	0.09	2111.53	21.53	1.5	15.0	6.5	7.0
13 +00	2090.25	2103.68	2110.69	0.09	2111.78	21.53		15.0	6.5	7.0
14 +00	2090.50	2103.93	2110.93	0.09	2112.02	21.52	1.5	15.0	6.5	7.0
15 +00	2090.75	2104.18	2111.18	0.09	2112.27	21.52		15.0	6.5	7.0
16 +00	2091.00	2104.43	2111.43	0.09	2112.52	21.52	1.5	15.0	6.5	7.0
17 +00	2091.25	2104.68	2111.69	0.00	2112.69	21.43		15.0	6.4	7.0
18 +00	2091.50	2104.93	2111.94	0.00	2112.94	21.44	1.5	15.0	6.4	7.0
9 +00	2091.75	2105.19	2112.18	0.00	2113.18	21.43		15.0	6.4	7.0
.0 +00	2092.00	2105.44	2112.41	0.00	2113.41	21.41	1.0	15.0	6.4	7.0
21 +00	2092.25	2104.69	2112.65	0.00	2113.65	21.40		15.0	6.4	7.0
22 +00	2092.50	2103.93	2112.88	0.00	2113.88	21.38		15.0	6.4	7.0
23 +00	2092.75	2105.37	2113.12	0.00	2114.12	21.37	1.4	15.0	6.4	7.0
24 +00	2093.00	2106.80	2113.31	0.00	2114.31	21.31		15.0	6.3	7.0
25 +00	2093.25	2106.94	2113.50	0.00	2114.50	21.25	1.2	15.0	6.3	7.0
26 +00	2093.50	2107.07	2113.66	0.00	2114.66	21.16		15.0	6.2	7.0
27 +00	2093.75	2107.22	2113.84	0.06	2114.90	21.15		15.0	6.2	7.0
28 +00	2094.00	2107.36	2114.02	0.06	2115.08	21.08	1.3	15.0	6.1	7.0
29 +00	2094.25	2107.53	2114.21	0.06	2115.27	21.01		15.0	6.0	6.0
30 +00	2094.50	2107.69	2114.39	0.06	2115.45	20.95	1.3	15.0	5.9	6.0
31 +00	2094.75	2107.86	2114.58	0.00	2115.58	20.83		15.0	5.8	6.0
32 +00	2095.00	2108.03	2114.77	0.00	2115.77	20.77	1.3	15.0	5.8	6.0
33 +00	2095.25	2108.22	2114.97	0.00	2115.97	20.72		15.0	5.7	6.0
34 +00	2095.50	2108.41	2115.17	0.00	2116.17	20.67	1.3	15.0	5.7	6.0
35 +00	2095.75	2108.36	2115.38	0.00	2116.38	20.63		15.0	5.6	6.0
36 +00	2096.00	2108.30	2115.58	0.00	2116.58	20.58	1.3	15.0	5.6	6.0
37 +00	2096.25	2108.76	2115.79	0.00	2116.79	20.54		15.0	5.5	6.0
38 +00	2096.50	2109.21	2116.00	0.09	2117.09	20.59	1.3	15.0	5.6	6.0
39 +00	2096.75	2109.43	2116.22	0.09	2117.31	20.56		15.0	5.6	6.0
40 +00	2097.00	2109.64	2116.43	0.09	2117.52	20.52	1.2	15.0	5.5	6.0
41 +00	2097.25	2112.08	2116.63	0.09	2117.72	20.47		15.0	5.5	6.0
42 +00	2097.50	2110.08	2116.83	0.00	2117.83	20.33		15.0	5.3	6.0
43 +00	2097.75	2116.95	2117.03	0.00	2118.03	20.28	1.3	15.0	5.3	6.0
44 +00	2098.00	2110.78	2117.27	0.00	2118.27	20.27	1.1	15.0	5.3	6.0

1 PMF ELEVATIONS FROM PAGES D.B-27 TO D.B-29 OF ATTACHMENT B TO APPENDIX D OF THE DECEMBER 1994, TRP.

2 PMF ELEVATIONS FROM HEC-2 ANALYSIS IN ATTACHMENT 1 OF THESE RESPONSES.

3 TOP OF CHANNEL ELEVATION IS EQUAL TO THE SUM OF THE PMF ELEVATION WITH TREE GROWTH, 2.0 FEET OF SEDIMENT, 1 FOOT OF FREEBOARD, AND SUPERELEVATION.

TABLE 5.2 (continued)

REQUIRED CHANNEL DEPTH FOR PMF ALLOWING FOR TREES GROWING IN CHANNEL, SEDIMENT DEPOSITION, AND SUPERELEVATION

STATION	CHANNEL BOTTOM ELEVATION	[1] PMF ELEVATION CHANNEL WITHOUT VEGETATION OR SEDIMENT (ft)	[2] PMF ELEVATION CHANNEL WITH TREES AND 2.0 FT. OF SEDIMENT (ft)	SUPER-ELEVATION (ft)	[3] REQUIRED TOP OF CHANNEL ELEVATION (ft)	MINIMUM CHANNEL DEPTH REQUIRED (ft)	RIGHT OVERBANK VELOCITY (ft/s)	CHANNEL DEPTH PROPOSED IN TRP (ft)	ADDITIONAL CHANNEL DEPTH REQUIRED (ft)	ADDITIONAL CHANNEL DEPTH PROPOSED (ft)
45 +00	2098.25	2110.93	2117.44	0.00	2118.44	20.19		15.0	5.2	6.0
46 +00	2098.50	2111.08	2117.61	0.00	2118.61	20.11	1.1	15.0	5.1	6.0
47 +00	2098.75	2111.24	2117.78	0.00	2118.78	20.03	1.1	15.0	5.0	5.0
48 +00	2099.00	2111.40	2117.97	0.00	2118.97	19.97		15.0	5.0	5.0
49 +00	2099.25	2111.58	2118.15	0.00	2119.15	19.90	1.1	15.0	4.9	5.0
50 +00	2099.50	2111.76	2118.33	0.00	2119.33	19.83		15.0	4.8	5.0
51 +00	2099.75	2112.03	2118.50	0.00	2119.50	19.75		15.0	4.8	5.0
52 +00	2100.00	2112.30	2118.68	0.00	2119.68	19.68	1.0	15.0	4.7	5.0
53 +00	2100.75	2112.47	2118.85	0.00	2119.85	19.10		15.0	4.1	5.0
54 +00	2101.50	2112.63	2119.01	0.00	2120.01	18.51	1.2	15.0	3.5	4.0
55 +00	2102.25	2112.79	2119.22	0.00	2120.22	17.97		15.0	3.0	4.0
56 +00	2103.00	2112.95	2119.42	0.00	2120.42	17.42	1.1	11.0	6.4	7.0
57 +00	2103.75	2113.41	2119.76	0.00	2120.76	17.01		11.0	6.0	6.0
58 +00	2104.50	2113.87	2120.09	0.00	2121.09	16.59	1.0	11.0	5.6	6.0
59 +00	2105.25	2114.53	2120.53	0.00	2121.53	16.28		11.0	5.3	6.0
60 +00	2106.00	2115.19	2120.97	0.09	2122.06	16.06	1.0	11.0	5.1	6.0
61 +00	2106.75	2115.93	2121.52	0.09	2122.61	15.86		11.0	4.9	5.0
62 +00	2107.50	2116.66	2122.06	0.09	2123.15	15.65	0.9	11.0	4.7	5.0
63 +00	2108.25	2117.41	2122.64	0.09	2123.73	15.48		11.0	4.5	5.0
64 +00	2109.00	2118.16	2123.22	0.00	2124.22	15.22	1.7	11.0	4.2	5.0
5 +00	2109.75	2119.27	2123.72	0.00	2124.72	14.97		11.0	4.0	4.0
66 +00	2110.50	2120.37	2124.21	0.00	2125.21	14.71	0.8	11.0	3.7	4.0
67 +00	2111.25	2120.42	2124.38	0.00	2125.38	14.13	0.9	11.0	3.1	4.0
68 +00	2112.00	2120.51	2124.61	0.00	2125.61	13.61	0.9	9.5	4.1	4.0
69 +00	2112.75	2120.64	2124.90	0.00	2125.90	13.15	0.8	9.5	3.7	4.0
70 +00	2113.50	2121.48	2125.21	0.00	2126.21	12.71	0.2	9.5	3.2	4.0
71 +00	2114.25	2121.49	2125.25	0.00	2126.25	12.00	0.2	9.5	2.5	3.0
72 +00	2115.00	2121.51	2125.30	0.00	2126.30	11.30	N/A	9.5	1.8	2.0
73 +00	2115.75	2121.55	2125.38	0.00	2126.38	10.63	0.3	9.5	1.1	1.0
74 +00	2116.50	2121.63	2125.48	0.00	2126.48	9.98	0.3	9.5	0.5	1.0
75 +00	2117.25	2121.79	2125.63	0.00	2126.63	9.38	N/A	9.5	0.0	0.0
76 +00	2118.00	2122.14	2125.87	0.00	2126.87	8.87	N/A	9.5	0.0	0.0
77 +00	2118.75	2122.79	2126.25	0.00	2127.25	8.50		9.5	0.0	0.0
78 +00	2119.50	2123.43	2126.63	0.02	2127.65	8.15	N/A	5.0	3.2	3.0
79 +00	2120.25	2124.21	2127.22	0.02	2128.24	7.99		5.0	3.0	3.0
80 +00	2121.00	2124.99	2127.81	0.02	2128.83	7.83	N/A	5.0	2.8	3.0
81 +00	2121.75	2125.74	2128.52	0.02	2129.54	7.78		5.0	2.8	3.0
82 +00	2122.50	2126.48	2129.22	0.00	2130.22	7.72	N/A	5.0	2.7	3.0
83 +00	2123.25	2127.23	2129.89	0.00	2130.89	7.64	N/A	5.0	2.6	3.0
84 +00	2124.00	2127.97	2130.56	0.00	2131.56	7.56		5.0	2.6	3.0
85 +00	2124.75	2128.56	2131.20	0.00	2132.20	7.45		5.0	2.4	3.0
86 +00	2125.50	2129.15	2131.84	0.00	2132.84	7.34		5.0	2.3	3.0
87 +00	2126.25	2129.95	2132.22	0.00	2133.22	6.97		5.0	2.0	2.0
88 +00	2127.00	2130.74	2132.59	0.00	2133.59	6.59	1.5	5.0	1.6	2.0

1 PMF ELEVATIONS FROM PAGES D.B-27 TO D.B-29 OF ATTACHMENT B TO APPENDIX D OF THE DECEMBER 1994, TRP.

2 PMF ELEVATIONS FROM HEC-2 ANALYSIS IN ATTACHMENT 1 OF THESE RESPONSES.

3 TOP OF CHANNEL ELEVATION IS EQUAL TO THE SUM OF THE PMF ELEVATION WITH TREE GROWTH, 1.5 FEET OF SEDIMENT, 1 FOOT OF FREEBOARD, AND SUPERELEVATION.

ATTACHMENT 2

RESULTS OF HEC-1 AND HEC-2 ANALYSES

```
*****************************************
*  HEC-2 WATER SURFACE PROFILES         *
*                                       *
*  Version   4.6.2;  May 1991           *
*                                       *
*  RUN DATE    06JUN95    TIME   16:21:34 *
*****************************************
```

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

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

SHERWOOD DIVERSION CHANNEL

ASSUMPTIONS:

1) "n" = 0.10 TO ACCOUNT FOR TREES GROWING IN CHANNEL

2) 1.5' OF SEDIMENT IN CHANNEL

THIS RUN EXECUTED 06JUN95 16:21:34

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

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

SEDIMENT

```
T1      INPUT FILE NAME: P:\317\TASK31\HEC2\SHERSED9.IH2----SUBCRITICAL
T2      DATE:06/95   DIVERSION CHANNEL ASSUMING TREES IN CHANNEL ("n"=0.1) AND
T3      SEDIMENT IN CHANNEL 1.5 FEET DEEP.

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                0     .0025       0        0        0     100.48

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1                 -1                                   -1

 VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43        1       42        8        4       25       26       68

NC     0.1      0.1      0.1      0.1      0.3
QT       1     5325
X1       0        6      200   290.99        0        0        0
X3             88.5
GR     111      170      101      200       87      242    89.93   257.78      101   290.99
GR     111   320.99


X1     200        6      200   290.99   201.61   198.48      200
X3              89
GR   111.5      170    101.5      200     87.5      242    90.43   257.78    101.5   290.99
GR   111.5   320.99


X1     400        6      200   290.99   203.24   197.46      200
X3             89.5
GR     112      170      102      200       88      242    90.93   257.78      102   290.99
GR     112   320.99


X1     600        6      200   290.99      200      200      200
3               90
     112.5      170    102.5      200     88.5      242    91.43   257.78    102.5   290.99
GR   112.5   320.99
```

X1	700	6	200	290.99	100.99	99.26	100			
X3		90								
GR	112.75	170	103	200	89	242	91.93	257.78	103	290.99
GR	112.75	320.99								
X1	800	6	200	290.99	100.99	99.26	100			
X3		90.5								
GR	113	170	103	200	89	242	91.93	257.78	103	290.99
GR	113	320.99								
QT	1	5326								
X1	1000	6	200	290.99	195.76	204.31	200			
X3		91								
GR	113.5	170	103.5	200	89.5	242	92.43	257.78	103.5	290.99
GR	113.5	320.99								
X1	1200	6	200	290.99	196.98	203.14	200			
X3		91.5								
GR	114	170	104	200	90	242	92.93	257.78	104	290.99
GR	114	320.99								
X1	1400	6	200	290.99	200.1	199.78	200			
X3		92								
GR	114.5	170	104.5	200	90.5	242	93.43	257.78	104.5	290.99
GR	114.5	320.99								
X1	1600	6	200	290.99	203.63	196	200			
X3		92.5								
GR	115	170	105	200	91	242	93.93	257.78	105	290.99
GR	115	320.99								
X1	1800	6	200	290.99	204.45	195.93	200			
X3		93								
GR	115.5	137	105.5	200	91.5	242	94.43	257.78	105.5	290.99
GR	115.5	320.99								
QT	1	5297								
X1	2000	8	200	290.99	206.03	194.18	200			
X3		93.5								
GR	116	170	106	200	92	242	94.93	257.78	106	290.99
GR	109.5	303.99	112	333.99	116	338.99				

X1	2300	6	200	290.99	302.91	296.91	300			
X3		94								
GR	116.75	20	106.5	200	92.5	242	95.43	257.78	106.5	290.99
GR	116.75	320.99								
QT	1	4333								
X1	2500	8	200	290.99	197.98	202.05	200			
X3		94.5								
GR	117.25	133.25	112	166.75	110	191.75	107	200	93	242
GR	95.93	257.78	107	290.99	117.25	320.99				
X1	2600	6	200	290.99	95.84	104.14	100			
X3		95								
GR	117.5	170	107.5	200	93.5	242	96.43	257.78	107.5	290.99
GR	117.5	320.99								
X1	2800	6	200	290.99	195.31	203.77	200			
X3		95.5								
GR	118	170	108	200	94	242	96.93	257.78	108	290.99
GR	118	320.99								
X1	3000	6	200	290.99	196.79	203.1	200			
X3		96								
GR	118.5	170	108.5	200	94.5	242	97.43	257.78	108.5	290.99
GR	118.5	320.99								
X1	3200	6	200	290.99	202.86	196.79	200			
X3		96.5								
GR	119	170	109	200	95	242	97.93	257.78	109	290.99
GR	119	320.99								
X1	3400	7	200	290.99	202.15	197.69	200			
X3		97								
GR	119.5	131	114.5	185.5	109.5	200	95.5	242	98.43	257.78
GR	109.5	290.99	119.5	320.99						
X1	3600	6	200	290.99	198.73	201.73	200			
X3		97.5								
GR	120	170	110	200	96	242	98.93	257.78	110	290.99
GR	120	320.99								

X1	3800	6	200	290.99	196.34	203.70	200			
X3		98								
GR	120.5	170	110.5	200	96.5	242	99.43	257.78	110.5	290.99
GR	120.5	320.99								
X1	4000	8	200	290.99	199.39	200.58	200			
X3		98.5								
GR	121	117	114.5	158	112	184	111	200	97	242
GR	99.93	257.78	111	290.99	121	320.99				
X1	4300	6	200	290.99	305.81	294.2	300			
X3		99								
GR	121.75	170	111.5	200	97.5	242	100.43	257.78	111.5	290.99
GR	121.75	320.99								
QT	1	3725								
X1	4400	6	200	290.99	99.71	100.29	100			
X3		99.5								
GR	122	170	112	200	98	242	100.93	257.78	112	290.99
GR	122	320.99								
X1	4600	6	200	290.99	199.21	200.78	200			
X3		100								
GR	122.5	170	112.5	200	98.5	242	101.43	257.78	112.5	290.99
GR	122.5	320.99								
X1	4700	6	200	290.99	103.78	96.24	100			
X3		100.5								
GR	122.75	170	112.75	200	98.75	242	101.68	257.78	112.75	290.99
GR	122.75	320.99								
X1	4900	6	200	290.99	202.21	197.8	200			
X3		100.75								
GR	123	118	113.25	200	99.25	242	102.18	257.78	113.25	290.99
GR	125.25	320.99								
QT	1	3247								
X1	5200	6	200	285.89	306.91	294	300			
X3		101.5								
GR	122	130	114	200	100	239	102.63	254.78	114	285.89
GR	124	315.89								

X1	5400	6	200	284.99	205.7	194.4	200			
X3		103								
GR	123.5	170	113.5	200	101.5	239	104.43	254.78	113.5	284.99
GR	123.5	314.99								
X1	5600	6	200	284.99	199.85	200.1	200			
X3		104.5								
GR	126	170	116	200	103	239	105.93	254.78	116	284.99
GR	126	314.99								
X1	5800	6	200	284.99	199.86	200.45	200			
X3		106								
GR	127.5	170	117.5	200	104.5	239	107.43	254.78	117.5	284.99
GR	127.5	314.99								
X1	6000	6	200	284.99	195.23	204.69	200			
X3		107.5								
GR	129	170	119	200	106	239	108.93	254.78	119	284.99
GR	129	314.99								
X1	6200	6	200	284.99	199.44	200.6	200			
X3		109								
GR	128	115	120.5	200	107.5	239	110.43	254.78	120.5	284.99
GR	130.5	314.99								
X1	6400	6	200	266.99	205.51	194.59	200			
X3		110.5								
GR	129	120	119	200	109	230	111.93	245.78	119	266.99
GR	129	296.99								
QT	1	1557								
X1	6600	6	200	266.99	203.03	196.86	200			
X3		112								
GR	130	108	120.5	200	110.5	230	113.43	245.78	120.5	266.99
GR	130.5	296.99								
X1	6700	6	200	266.99	101.2	98.8	100			
X3		112.75								
GR	131.25	170	121.25	200	111.25	230	114.18	245.78	121.25	266.99
GR	131.25	296.99								

X1	6800	6	200	266.99	101.19	98.8	100			
X3		113.5								
GR	132	170	122	200	112	230	114.93	245.78	122	266.99
GR	132	296.99								
X1	6900	6	200	266.99	99.68	100.32	100			
X3		114.25								
GR	132.75	170	122.75	200	112.75	230	115.68	245.78	122.75	266.99
GR	132.75	296.99								
QT	1	428								
X1	7000	6	200	266.99	99.67	100.33	100			
X3		115								
GR	133.5	170	123.5	200	113.5	230	116.43	245.78	123.5	266.99
GR	133.5	296.99								
X1	7100	6	200	266.99	99.84	100.16	100			
X3		115.75								
GR	134.25	170	124.25	200	114.25	230	117.18	245.78	124.25	266.99
GR	134.25	296.99								
X1	7200	6	200	266.99	99.83	100.16	100			
X3		116.5								
GR	135	170	125	200	115	230	117.93	245.78	125	266.99
GR	135	296.99								
X1	7300	6	200	254.99	98.84	101.17	100			
X3		117.25								
GR	133.75	170	123.75	200	115.75	224	118.68	239.78	123.75	254.99
GR	133.75	284.99								
X1	7400	6	200	254.99	98.85	101.17	100			
X3		118								
GR	134.5	170	124.5	200	116.5	224	119.43	239.78	124.5	254.99
GR	134.5	284.99								
X1	7500	6	200	254.99	99.47	100.52	100			
X3		118.75								
GR	135.25	170	125.25	200	117.25	224	120.18	239.78	125.25	254.99
GR	135.25	284.99								

X1	7600	6	200	254.99	99.46	100.53	100			
X3		119.5								
GR	136	170	126	200	118	224	120.93	239.78	126	254.99
GR	136	284.99								
X1	7800	6	200	254.99	196.29	203.71	200			
X3		121								
GR	137.5	170	127.5	200	119.5	224	122.43	239.78	127.5	254.99
GR	137.5	284.99								
X1	8000	6	200	254.99	199.4	200.6	200			
X3		122.5								
GR	139	170	129	200	121	224	123.93	239.78	129	254.99
GR	139	284.99								
X1	8200	7	200	254.99	192.62	203.75	200			
X3		124								
GR	135	75	130.5	100	130.5	200	122.5	224	125.43	239.78
GR	130.5	254.99	140.5	284.99						
AT	1	357								
X1	8400	6	200	254.99	191.51	203.39	200			
X3		125.5								
GR	142	135	132	200	124	224	126.93	239.78	132	254.99
GR	142	284.99								
X1	8600	6	200	254.99	210.12	190.02	200			
X3		127								
GR	139	135	133.5	200	125.5	224	128.43	239.78	133.5	254.99
GR	143.5	284.99								
X1	8800	8	211	254.99	198.47	201.87	200			
X3		128.5								
GR	136	37	134	98	130	180	128	211	127	224
GR	129.93	239.78	135	254.99	145	284.99				

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300

*SECNO .000

.000	18.82	107.32	97.64	100.48	107.58	.26	.00	.00	101.00
5325.0	93.0	5139.0	93.0	60.0	1241.5	60.0	.0	.0	101.00
.00	1.55	4.14	1.55	.100	.100	.100	.000	88.50	181.03
.002519	0.	0.	0.	0	15	5	.00	128.92	309.96

*SECNO 200.000

200.000	18.83	107.83	98.17	.00	108.08	.26	.50	.00	101.50
5325.0	93.1	5138.8	93.1	60.0	1241.8	60.0	6.3	.6	101.50
.01	1.55	4.14	1.55	.100	.100	.100	.000	89.00	181.02
.002516	202.	200.	198.	0	11	0	.00	128.95	309.97

*SECNO 400.000

400.000	18.83	108.33	98.67	.00	108.59	.26	.50	.00	102.00
5325.0	93.2	5138.6	93.2	60.1	1242.2	60.1	12.5	1.2	102.00
.03	1.55	4.14	1.55	.100	.100	.100	.000	89.50	181.01
.002514	203.	200.	197.	0	11	0	.00	128.97	309.98

*SECNO 600.000

600.000	18.83	108.83	99.17	.00	109.09	.26	.50	.00	102.50
5325.0	93.3	5138.5	93.3	60.1	1242.3	60.1	18.8	1.8	102.50
.04	1.55	4.14	1.55	.100	.100	.100	.000	90.00	181.00
.002512	200.	200.	200.	0	11	0	.00	128.98	309.99

*SECNO 700.000

700.000	19.08	109.08	99.59	.00	109.35	.27	.26	.00	103.00
5325.0	88.4	5148.2	88.4	56.9	1225.0	56.9	21.9	2.1	103.00
.05	1.55	4.20	1.55	.100	.100	.100	.000	90.00	181.28
.002648	101.	100.	99.	0	8	0	.00	128.43	309.71

*SECNO 800.000

800.000	18.85	109.35	99.68	.00	109.61	.26	.26	.00	103.00
5325.0	93.5	5138.0	93.5	60.3	1243.2	60.3	25.0	2.4	103.00
.05	1.55	4.13	1.55	.100	.100	.100	.000	90.50	180.97
.002506	101.	100.	99.	0	11	0	.00	129.04	310.02

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1000.000									
1000.000	18.85	109.85	100.17	.00	110.11	.26	.50	.00	103.50
5326.0	94.0	5138.0	94.0	60.7	1244.8	60.7	31.2	3.0	103.50
.07	1.55	4.13	1.55	.100	.100	.100	.000	91.00	180.92
.002495	196.	200.	204.	1	11	0	.00	129.15	310.07
*SECNO 1200.000									
1200.000	18.85	110.35	100.67	.00	110.61	.26	.50	.00	104.00
5326.0	93.8	5138.4	93.8	60.5	1244.2	60.5	37.5	3.6	104.00
.08	1.55	4.13	1.55	.100	.100	.100	.000	91.50	180.94
.002500	197.	200.	203.	0	11	0	.00	129.10	310.05
*SECNO 1400.000									
1400.000	18.85	110.85	101.17	.00	111.11	.26	.50	.00	104.50
5326.0	93.8	5138.4	93.8	60.5	1244.0	60.5	43.8	4.1	104.50
.10	1.55	4.13	1.55	.100	.100	.100	.000	92.00	180.95
.002501	200.	200.	200.	0	11	0	.00	129.09	310.04
*SECNO 1600.000									
1600.000	18.85	111.35	101.67	.00	111.61	.26	.50	.00	105.00
5326.0	93.8	5138.4	93.8	60.5	1244.1	60.5	50.0	4.7	105.00
.11	1.55	4.13	1.55	.100	.100	.100	.000	92.50	180.95
.002501	204.	200.	196.	0	11	0	.00	129.10	310.04
*SECNO 1800.000									
1800.000	18.86	111.86	102.17	.00	112.10	.24	.49	.00	105.50
5326.0	198.3	5035.8	91.9	127.1	1244.2	60.5	56.5	5.4	105.50
.12	1.56	4.05	1.52	.100	.100	.100	.000	93.00	159.98
.002401	204.	200.	196.	0	11	0	.00	150.06	310.05
*SECNO 2000.000									
2000.000	18.84	112.34	102.65	.00	112.58	.24	.48	.00	106.00
5297.0	91.8	5040.2	165.0	60.3	1243.3	107.5	63.0	6.1	106.00
.14	1.52	4.05	1.53	.100	.100	.100	.000	93.50	180.97
.002411	206.	200.	194.	1	11	0	.00	153.45	334.42

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2300.000									
2300.000	19.05	113.05	103.15	.00	113.24	.19	.65	.01	106.50
5297.0	546.7	4662.3	87.9	377.1	1262.5	62.8	73.7	7.4	106.50
.16	1.45	3.69	1.40	.100	.100	.100	.000	94.00	84.92
.001960	303.	300.	297.	1	11	0	.00	225.25	310.17
*SECNO 2500.000									
2500.000	18.93	113.43	102.77	.00	113.60	.16	.35	.00	107.00
4333.0	134.7	4123.2	75.1	108.1	1251.6	60.6	80.9	8.2	107.00
.18	1.25	3.29	1.24	.100	.100	.100	.000	94.50	157.60
.001578	198.	200.	202.	2	18	0	.00	152.22	309.82
*SECNO 2600.000									
2600.000	18.59	113.59	103.27	.00	113.77	.18	.17	.00	107.50
4333.0	70.6	4191.8	70.6	55.6	1220.3	55.6	84.0	8.6	107.50
.19	1.27	3.44	1.27	.100	.100	.100	.000	95.00	181.73
.001775	96.	100.	104.	2	18	0	.00	127.53	309.26
*SECNO 2800.000									
2800.000	18.45	113.95	103.78	.00	114.13	.18	.36	.00	108.00
4333.0	67.6	4197.8	67.6	53.1	1207.4	53.1	90.1	9.2	108.00
.20	1.27	3.48	1.27	.100	.100	.100	.000	95.50	182.16
.001844	195.	200.	204.	2	14	0	.00	126.68	308.83
*SECNO 3000.000									
3000.000	18.32	114.32	104.27	.00	114.51	.19	.38	.00	108.50
4333.0	64.8	4203.4	64.8	50.7	1195.3	50.7	96.1	9.7	108.50
.22	1.28	3.52	1.28	.100	.100	.100	.000	96.00	182.55
.001912	197.	200.	203.	1	14	0	.00	125.88	308.44
*SECNO 3200.000									
3200.000	18.21	114.71	104.77	.00	114.90	.19	.39	.00	109.00
4333.0	62.5	4208.1	62.5	48.7	1184.9	48.7	102.0	10.3	109.00
.24	1.28	3.55	1.28	.100	.100	.100	.000	96.50	182.90
.001973	203.	200.	197.	1	14	0	.00	125.20	308.09

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 3400.000									
3400.000	18.10	115.10	105.27	.00	115.30	.19	.40	.00	109.50
4333.0	62.0	4210.7	60.2	46.8	1175.2	46.9	107.9	10.9	109.50
.25	1.33	3.58	1.28	.100	.100	.100	.000	97.00	179.02
.002030	202.	200.	198.	0	14	0	.00	128.75	307.77
*SECNO 3600.000									
3600.000	18.01	115.51	105.77	.00	115.71	.20	.41	.00	110.00
4333.0	58.4	4216.1	58.4	45.4	1167.0	45.4	113.7	11.5	110.00
.27	1.29	3.61	1.29	.100	.100	.100	.000	97.50	183.49
.002083	199.	200.	202.	0	14	0	.00	124.02	307.50
*SECNO 3800.000									
3800.000	17.93	115.93	106.27	.00	116.13	.20	.42	.00	110.50
4333.0	56.8	4219.3	56.8	44.1	1159.7	44.1	119.4	12.0	110.50
.28	1.29	3.64	1.29	.100	.100	.100	.000	98.00	183.73
.002131	196.	200.	204.	0	14	0	.00	123.53	307.26
*SECNO 4000.000									
4000.000	17.87	116.37	106.77	.00	116.54	.18	.41	.00	111.00
4333.0	266.4	4013.7	52.8	169.5	1153.9	43.1	125.4	12.7	111.00
.30	1.57	3.48	1.23	.100	.100	.100	.000	98.50	146.27
.001961	199.	200.	201.	1	14	0	.00	160.80	307.07
*SECNO 4300.000									
4300.000	17.96	116.96	107.27	.00	117.16	.20	.61	.01	111.50
4333.0	56.3	4220.4	56.3	43.8	1163.9	43.8	134.5	13.7	111.50
.32	1.29	3.63	1.29	.100	.100	.100	.000	99.00	183.99
.002106	306.	300.	294.	1	14	0	.00	123.01	307.00
*SECNO 4400.000									
4400.000	17.70	117.20	107.18	.00	117.35	.15	.19	.00	112.00
3725.0	45.1	3634.9	45.1	40.5	1139.2	40.5	137.3	14.0	112.00
.33	1.11	3.19	1.11	.100	.100	.100	.000	99.50	184.40
.001678	100.	100.	100.	2	18	0	.00	122.18	306.59

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

*SECNO 4600.000

4600.000	17.54	117.54	107.68	.00	117.70	.16	.34	.00	112.50
3725.0	42.4	3640.2	42.4	38.1	1124.7	38.1	142.9	14.5	112.50
.35	1.11	3.24	1.11	.100	.100	.100	.000	100.00	184.88
.001757	199.	200.	201.	2	18	0	.00	121.22	306.11

*SECNO 4700.000

4700.000	17.22	117.72	107.99	.00	117.88	.16	.18	.00	112.75
3725.0	41.3	3642.4	41.3	36.9	1114.2	36.9	145.6	14.8	112.75
.36	1.12	3.27	1.12	.100	.100	.100	.000	100.50	185.12
.001813	104.	100.	96.	0	18	0	.00	120.75	305.87

*SECNO 4900.000

4900.000	17.33	118.08	108.43	.00	118.24	.16	.36	.00	113.25
3725.0	110.7	3582.8	31.5	98.0	1105.4	29.1	151.2	15.4	113.25
.38	1.13	3.24	1.08	.100	.100	.100	.000	100.75	159.40
.001803	202.	200.	198.	1	14	0	.00	143.66	303.06

*SECNO 5200.000

5200.000	17.11	118.61	108.71	.00	118.75	.14	.51	.00	114.00
3247.0	95.9	3119.2	31.9	93.4	1036.9	32.0	159.4	16.4	114.00
.40	1.03	3.01	1.00	.100	.100	.100	.000	101.50	159.58
.001578	307.	300.	294.	1	18	0	.00	140.17	299.75

*SECNO 5400.000

5400.000	15.94	118.94	110.01	.00	119.09	.15	.34	.00	113.50
3247.0	52.9	3141.2	52.9	44.5	990.4	44.5	164.6	17.0	113.50
.42	1.19	3.17	1.19	.100	.100	.100	.000	103.00	183.66
.001806	206.	200.	194.	1	18	0	.00	117.67	301.33

*SECNO 5600.000

5600.000	14.86	119.36	111.68	.00	119.57	.21	.46	.02	116.00
3247.0	18.8	3209.4	18.8	16.9	863.5	16.9	169.1	17.5	116.00
.44	1.11	3.72	1.11	.100	.100	.100	.000	104.50	189.93
.003006	200.	200.	200.	2	14	0	.00	105.13	295.06

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

*SECNO 5800.000

5800.000	14.02	120.02	113.20	.00	120.28	.26	.69	.01	117.50
3247.0	10.1	3226.7	10.1	9.5	792.4	9.5	173.0	18.0	117.50
.45	1.06	4.07	1.06	.100	.100	.100	.000	106.00	192.44
.004046	200.	200.	200.	2	11	0	.00	100.11	292.55

*SECNO 6000.000

6000.000	13.40	120.90	114.68	.00	121.20	.30	.91	.01	119.00
3247.0	5.4	3236.3	5.4	5.4	739.6	5.4	176.6	18.4	119.00
.46	.99	4.38	.99	.100	.100	.100	.000	107.50	194.30
.005122	195.	200.	205.	2	11	0	.00	96.38	290.69

*SECNO 6200.000

6200.000	12.99	121.99	116.18	.00	122.31	.33	1.11	.01	120.50
3247.0	11.8	3232.2	3.0	12.5	704.5	3.3	180.0	18.9	120.50
.48	.94	4.59	.91	.100	.100	.100	.000	109.00	183.16
.006007	199.	200.	201.	2	11	0	.00	106.29	289.45

*SECNO 6400.000

6400.000	12.65	123.15	117.69	.00	123.50	.36	1.18	.01	119.00
3247.0	125.7	3075.6	45.7	68.7	627.9	25.8	183.3	19.4	119.00
.49	1.83	4.90	1.77	.100	.100	.100	.000	110.50	166.84
.005790	206.	200.	195.	2	11	0	.00	112.59	279.43

*SECNO 6600.000

6600.000	12.13	124.13	116.95	.00	124.23	.09	.70	.03	120.50
1557.0	56.8	1483.2	17.0	63.9	593.6	19.8	186.5	19.9	120.50
.51	.89	2.50	.86	.100	.100	.100	.000	112.00	164.82
.001624	203.	200.	197.	2	18	0	.00	113.06	277.89

*SECNO 6700.000

6700.000	11.55	124.30	117.70	.00	124.42	.12	.19	.01	121.25
1557.0	12.4	1532.2	12.4	14.0	554.7	14.0	188.0	20.1	121.25
.52	.89	2.76	.89	.100	.100	.100	.000	112.75	190.84
.002172	101.	100.	99.	2	18	0	.00	85.31	276.15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6800.000									
6800.000	11.03	124.53	118.45	.00	124.67	.13	.24	.01	122.00
1557.0	8.4	1540.1	8.4	9.6	519.9	9.6	189.3	20.3	122.00
.53	.88	2.96	.88	.100	.100	.100	.000	113.50	192.40
.002724	101.	100.	99.	2	18	0	.00	82.18	274.59
*SECNO 6900.000									
6900.000	10.57	124.82	119.20	.00	124.98	.15	.30	.01	122.75
1557.0	5.5	1546.0	5.5	6.4	489.0	6.4	190.4	20.5	122.75
.54	.85	3.16	.85	.100	.100	.100	.000	114.25	193.79
.003368	100.	100.	100.	2	14	0	.00	79.42	273.20
*SECNO 7000.000									
7000.000	10.13	125.13	117.48	.00	125.14	.01	.15	.01	123.50
428.0	.9	426.2	.9	4.0	459.1	4.0	191.6	20.7	123.50
.57	.22	.93	.22	.100	.100	.100	.000	115.00	195.12
.000316	100.	100.	100.	0	17	0	.00	76.74	271.87
*SECNO 7100.000									
7100.000	9.41	125.16	118.22	.00	125.18	.02	.04	.00	124.25
428.0	.2	427.5	.2	1.3	411.4	1.3	192.6	20.9	124.25
.60	.18	1.04	.18	.100	.100	.100	.000	115.75	197.26
.000458	100.	100.	100.	2	11	0	.00	72.47	269.73
*SECNO 7200.000									
7200.000	8.72	125.22	118.98	.00	125.24	.02	.06	.00	125.00
428.0	.0	428.0	.0	.1	364.2	.1	193.5	21.0	125.00
.62	.00	1.18	.00	.100	.100	.100	.000	116.50	199.37
.000689	100.	100.	100.	1	14	0	.00	68.24	267.62
*SECNO 7300.000									
7300.000	8.04	125.29	119.74	.00	125.32	.03	.08	.00	123.75
428.0	1.2	425.5	1.2	3.5	312.4	3.5	194.2	21.2	123.75
.64	.35	1.36	.35	.100	.100	.100	.000	117.25	195.41
.000869	99.	100.	101.	1	14	0	.00	64.17	259.58

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 7400.000									
7400.000	7.39	125.39	120.48	.00	125.42	.04	.11	.00	124.50
428.0	.4	427.3	.4	1.2	277.0	1.2	194.9	21.3	124.50
.66	.30	1.54	.30	.100	.100	.100	.000	118.00	197.34
.001308	99.	100.	101.	2	17	0	.00	60.31	257.65
*SECNO 7500.000									
7500.000	6.79	125.54	121.23	.00	125.59	.05	.16	.00	125.25
428.0	.0	428.0	.0	.1	244.2	.1	195.5	21.4	125.25
.67	.18	1.75	.18	.100	.100	.100	.000	118.75	199.13
.001999	99.	100.	101.	2	17	0	.00	56.73	255.86
*SECNO 7600.000									
7600.000	6.27	125.77	121.99	.00	125.83	.06	.24	.00	126.00
428.0	.0	428.0	.0	.0	215.7	.0	196.1	21.6	126.00
.69	.00	1.98	.00	.000	.100	.000	.000	119.50	200.69
.002919	99.	100.	101.	2	18	0	.00	53.61	254.30
*SECNO 7800.000									
7800.000	5.50	126.50	123.48	.00	126.59	.09	.75	.01	127.50
428.0	.0	428.0	.0	.0	176.4	.0	197.0	21.8	127.50
.71	.00	2.43	.00	.000	.100	.000	.000	121.00	202.99
.005058	196.	200.	204.	2	18	0	.00	49.00	252.00
*SECNO 8000.000									
8000.000	5.15	127.65	124.98	.00	127.76	.11	1.16	.01	129.00
428.0	.0	428.0	.0	.0	159.2	.0	197.7	22.0	129.00
.73	.00	2.69	.00	.000	.100	.000	.000	122.50	204.07
.006694	199.	200.	201.	2	14	0	.00	46.86	250.92
*SECNO 8200.000									
8200.000	5.04	129.04	126.49	.00	129.16	.12	1.40	.00	130.50
428.0	.0	428.0	.0	.0	154.2	.0	198.5	22.2	130.50
.75	.00	2.77	.00	.000	.100	.000	.000	124.00	204.39
.007302	193.	200.	204.	2	11	0	.00	46.22	250.60

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

*SECNO 8400.000

8400.000	4.88	130.38	127.75	.00	130.47	.09	1.31	.00	132.00
357.0	.0	357.0	.0	.0	147.0	.0	199.1	22.4	132.00
.77	.00	2.43	.00	.000	.100	.000	.000	125.50	204.86
.005795	192.	200.	203.	2	14	0	.00	45.27	250.13

*SECNO 8600.000

8600.000	4.65	131.65	129.25	.00	131.75	.11	1.28	.00	133.50
357.0	.0	357.0	.0	.0	136.7	.0	199.8	22.7	133.50
.80	.00	2.61	.00	.000	.100	.000	.000	127.00	205.56
.007082	210.	200.	190.	2	14	0	.00	43.88	249.43

*SECNO 8800.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.92

8800.000	3.90	132.40	129.90	.00	132.43	.03	.66	.01	128.50
357.0	194.6	162.4	.0	162.5	115.9	.0	200.7	23.0	135.00
.84	1.20	1.40	.00	.100	.100	.000	.000	128.50	130.81
.001923	198.	200.	202.	3	17	0	.00	116.38	247.19

THIS RUN EXECUTED 06JUN95 16:21:37

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

SEDIMENT IN CHANNEL 1.5

SUMMARY PRINTOUT

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
.000	5325.00	107.32	88.50	18.82	128.92	1361.37	4.14	.20
200.000	5325.00	107.83	89.00	18.83	128.95	1361.86	4.14	.20
400.000	5325.00	108.33	89.50	18.83	128.97	1362.37	4.14	.20
600.000	5325.00	108.83	90.00	18.83	128.98	1362.64	4.14	.20
700.000	5325.00	109.08	90.00	19.08	128.43	1338.82	4.20	.20
800.000	5325.00	109.35	90.50	18.85	129.04	1363.89	4.13	.20
1000.000	5326.00	109.85	91.00	18.85	129.15	1366.15	4.13	.20
1200.000	5326.00	110.35	91.50	18.85	129.10	1365.24	4.13	.20
1400.000	5326.00	110.85	92.00	18.85	129.09	1365.04	4.13	.20
1600.000	5326.00	111.35	92.50	18.85	129.10	1365.08	4.13	.20
1800.000	5326.00	111.86	93.00	18.86	150.06	1431.77	4.05	.19
2000.000	5297.00	112.34	93.50	18.84	153.45	1411.17	4.05	.19
2300.000	5297.00	113.05	94.00	19.05	225.25	1702.37	3.69	.17
2500.000	4333.00	113.43	94.50	18.93	152.22	1420.27	3.29	.16
2600.000	4333.00	113.59	95.00	18.59	127.53	1331.49	3.44	.17
2800.000	4333.00	113.95	95.50	18.45	126.68	1313.52	3.48	.17
3000.000	4333.00	114.32	96.00	18.32	125.88	1296.74	3.52	.17

SECNO	Q	CWSEL	ELMIN	DEPTH *	TOPWID	AREA	VCH	FRCH
3200.000	4333.00	114.71	96.50	18.21	125.20	1282.41	3.55	.17
3400.000	4333.00	115.10	97.00	18.10	128.75	1268.95	3.58	.18
3600.000	4333.00	115.51	97.50	18.01	124.02	1257.91	3.61	.18
3800.000	4333.00	115.93	98.00	17.93	123.53	1247.97	3.64	.18
4000.000	4333.00	116.37	98.50	17.87	160.80	1366.56	3.48	.17
4300.000	4333.00	116.96	99.00	17.96	123.01	1251.53	3.63	.18
4400.000	3725.00	117.20	99.50	17.70	122.18	1220.34	3.19	.16
4600.000	3725.00	117.54	100.00	17.54	121.22	1200.87	3.24	.16
4700.000	3725.00	117.72	100.50	17.22	120.75	1187.99	3.27	.16
4900.000	3725.00	118.08	100.75	17.33	143.66	1232.54	3.24	.16
5200.000	3247.00	118.61	101.50	17.11	140.17	1162.33	3.01	.15
5400.000	3247.00	118.94	103.00	15.94	117.67	1079.44	3.17	.16
5600.000	3247.00	119.36	104.50	14.86	105.13	897.31	3.72	.21
5800.000	3247.00	120.02	106.00	14.02	100.11	811.42	4.07	.24
6000.000	3247.00	120.90	107.50	13.40	96.38	750.41	4.38	.26
6200.000	3247.00	121.99	109.00	12.99	106.29	720.34	4.59	.28
6400.000	3247.00	123.15	110.50	12.65	112.59	722.40	4.90	.28
6600.000	1557.00	124.13	112.00	12.13	113.06	677.23	2.50	.15
6700.000	1557.00	124.30	112.75	11.55	85.31	582.67	2.76	.17
6800.000	1557.00	124.53	113.50	11.03	82.18	539.11	2.96	.19
6900.000	1557.00	124.82	114.25	10.57	79.42	501.82	3.16	.21
7000.000	428.00	125.13	115.00	10.13	76.74	467.04	.93	.06
7100.000	428.00	125.16	115.75	9.41	72.47	413.90	1.04	.07
7200.000	428.00	125.22	116.50	8.72	68.24	364.34	1.18	.09
7300.000	428.00	125.29	117.25	8.04	64.17	319.42	1.36	.10
7400.000	428.00	125.39	118.00	7.39	60.31	279.40	1.54	.12

* These depths are above 1.5 ft of sediment. Therefore the total depth is 1.5' more than the depths indicated.

	SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
	7500.000	428.00	125.54	118.75	6.79	56.73	244.43	1.75	.15
	7600.000	428.00	125.77	119.50	6.27	53.61	215.74	1.98	.17
	7800.000	428.00	126.50	121.00	5.50	49.00	176.36	2.43	.23
	8000.000	428.00	127.65	122.50	5.15	46.86	159.21	2.69	.26
	8200.000	428.00	129.04	124.00	5.04	46.22	154.24	2.77	.27
	8400.000	357.00	130.38	125.50	4.88	45.27	147.02	2.43	.24
	8600.000	357.00	131.65	127.00	4.65	43.88	136.68	2.61	.26
*	8800.000	357.00	132.40	128.50	3.90	116.38	278.32	1.40	.14

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 8800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

```
*********************************************
*  HEC-2 WATER SURFACE PROFILES             *
*                                           *
*  Version   4.6.2;  May 1991               *
*                                           *
*  RUN DATE    02AUG95    TIME   12:46:53   *
*********************************************
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*********************************
*  U.S. ARMY CORPS OF ENGINEERS
*  HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
*********************************
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```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

SHERWOOD DIVERSION CHANNEL

ASSUMPTIONS

1) "n" = 0.10 TO ACCOUNT FOR TREES GROWING IN CHANNEL

2) 2.0' of sediment in CHANNEL

THIS RUN EXECUTED 02AUG95 12:46:53

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

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


T1      INPUT FILE NAME: P:\317\TASK31\SEDIMENT\HEC2\SHERSED9.IH2----SUBCRITICAL
T2      DATE:078/95   DIVERSION CHANNEL ASSUMING TREES IN CHANNEL ("n"=0.1) AND
T3      SEDIMENT IN CHANNEL 2.0 FEET DEEP.


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                 0     .0025       0        0        0      90.0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     -1                -1                                     -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43       1        42       8        4        25       26       68

NC     0.1      0.1      0.1      0.1      0.3
QT       1     5325
X1       0        6      200   290.99        0        0        0
X3               89
GR     111      170      101      200       87      242    89.93   257.78      101   290.99
GR     111   320.99


X1     200        6      200   290.99   201.61   198.48      200
X3              89.5
GR   111.5      170    101.5      200     87.5      242    90.43   257.78    101.5   290.99
GR   111.5   320.99


X1     400        6      200   290.99   203.24   197.46      200
X3               90
GR     112      170      102      200       88      242    90.93   257.78      102   290.99
GR     112   320.99


X1     600        6      200   290.99      200      200      200
X3              90.5
GR   112.5      170    102.5      200     88.5      242    91.43   257.78    102.5   290.99
GR   112.5   320.99
```

X1	700	6	200	290.99	100.99	99.26	100			
X3		91								
GR	112.75	170	103	200	89	242	91.93	257.78	103	290.99
GR	112.75	320.99								
X1	800	6	200	290.99	100.99	99.26	100			
X3		91								
GR	113	170	103	200	89	242	91.93	257.78	103	290.99
GR	113	320.99								
QT	1	5326								
X1	1000	6	200	290.99	195.76	204.31	200			
X3		91.5								
GR	113.5	170	103.5	200	89.5	242	92.43	257.78	103.5	290.99
GR	113.5	320.99								
X1	1200	6	200	290.99	196.98	203.14	200			
X3		92								
GR	114	170	104	200	90	242	92.93	257.78	104	290.99
GR	114	320.99								
X1	1400	6	200	290.99	200.1	199.78	200			
X3		92.5								
GR	114.5	170	104.5	200	90.5	242	93.43	257.78	104.5	290.99
GR	114.5	320.99								
X1	1600	6	200	290.99	203.63	196	200			
X3		93								
GR	115	170	105	200	91	242	93.93	257.78	105	290.99
GR	115	320.99								
X1	1800	6	200	290.99	204.45	195.93	200			
X3		93.5								
GR	115.5	137	105.5	200	91.5	242	94.43	257.78	105.5	290.99
GR	115.5	320.99								
QT	1	5297								
X1	2000	8	200	290.99	206.03	194.18	200			
X3		94								
GR	116	170	106	200	92	242	94.93	257.78	106	290.99
GR	109.5	303.99	112	333.99	116	338.99				

X1	2300	6	200	290.99	302.91	296.91	300			
X3		94.5								
GR	116.75	20	106.5	200	92.5	242	95.43	257.78	106.5	290.99
GR	116.75	320.99								
QT	1	4333								
X1	2500	8	200	290.99	197.98	202.05	200			
X3		95								
GR	117.25	133.25	112	166.75	110	191.75	107	200	93	242
GR	95.93	257.78	107	290.99	117.25	320.99				
X1	2600	6	200	290.99	95.84	104.14	100			
X3		95.5								
GR	117.5	170	107.5	200	93.5	242	96.43	257.78	107.5	290.99
GR	117.5	320.99								
X1	2800	6	200	290.99	195.31	203.77	200			
X3		96								
GR	118	170	108	200	94	242	96.93	257.78	108	290.99
GR	118	320.99								
X1	3000	6	200	290.99	196.79	203.1	200			
X3		96.5								
GR	118.5	170	108.5	200	94.5	242	97.43	257.78	108.5	290.99
GR	118.5	320.99								
X1	3200	6	200	290.99	202.86	196.79	200			
X3		97								
GR	119	170	109	200	95	242	97.93	257.78	109	290.99
GR	119	320.99								
X1	3400	7	200	290.99	202.15	197.69	200			
X3		97.5								
GR	119.5	131	114.5	185.5	109.5	200	95.5	242	98.43	257.78
GR	109.5	290.99	119.5	320.99						
X1	3600	6	200	290.99	198.73	201.73	200			
X3		98								
GR	120	170	110	200	96	242	98.93	257.78	110	290.99
GR	120	320.99								

X1	3800	6	200	290.99	196.34	203.70	200			
X3		98.5								
GR	120.5	170	110.5	200	96.5	242	99.43	257.78	110.5	290.99
GR	120.5	320.99								
X1	4000	8	200	290.99	199.39	200.58	200			
X3		99								
GR	121	117	114.5	158	112	184	111	200	97	242
GR	99.93	257.78	111	290.99	121	320.99				
X1	4300	6	200	290.99	305.81	294.2	300			
X3		99.5								
GR	121.75	170	111.5	200	97.5	242	100.43	257.78	111.5	290.99
GR	121.75	320.99								
QT	1	3725								
X1	4400	6	200	290.99	99.71	100.29	100			
X3		100								
GR	122	170	112	200	98	242	100.93	257.78	112	290.99
GR	122	320.99								
X1	4600	6	200	290.99	199.21	200.78	200			
X3		100.5								
GR	122.5	170	112.5	200	98.5	242	101.43	257.78	112.5	290.99
GR	122.5	320.99								
X1	4700	6	200	290.99	103.78	96.24	100			
X3		100.75								
GR	122.75	170	112.75	200	98.75	242	101.68	257.78	112.75	290.99
GR	122.75	320.99								
X1	4900	6	200	290.99	202.21	197.8	200			
X3		101.25								
GR	123	118	113.25	200	99.25	242	102.18	257.78	113.25	290.99
GR	125.25	320.99								
QT	1	3247								
X1	5200	6	200	285.89	306.91	294	300			
X3		102								
GR	122	130	114	200	100	239	102.63	254.78	114	285.89
GR	124	315.89								

```
X1    5400      6      200    284.99    205.7    194.4     200
X3            103.5
GR    123.5     170    113.5     200    101.5      239  104.43  254.78   113.5  284.99
GR    123.5  314.99

X1    5600      6      200    284.99   199.85    200.1     200
X3             105
GR     126      170      116     200      103      239  105.93  254.78     116  284.99
GR     126   314.99

X1    5800      6      200    284.99   199.86   200.45     200
X3            106.5
GR   127.5      170    117.5     200     104.5      239  107.43  254.78   117.5  284.99
GR   127.5   314.99

X1    6000      6      200    284.99   195.23   204.69     200
X3             108
GR     129      170      119     200      106      239  108.93  254.78     119  284.99
GR     129   314.99

X1    6200      6      200    284.99   199.44    200.6     200
X3            109.5
GR     128      115    120.5     200     107.5      239  110.43  254.78   120.5  284.99
GR   130.5   314.99

X1    6400      6      200    266.99   205.51   194.59     200
X3             111
GR     129      120      119     200      109      230  111.93  245.78     119  266.99
GR     129   296.99

QT       1     1557
X1    6600      6      200    266.99   203.03   196.86     200
X3            112.5
GR     130      108    120.5     200     110.5      230  113.43  245.78   120.5  266.99
GR   130.5   296.99

X1    6700      6      200    266.99    101.2     98.8     100
X3           113.25
GR  131.25      170   121.25     200   111.25      230  114.18  245.78  121.25  266.99
GR  131.25   296.99
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X1	6800	6	200	266.99	101.19	98.8	100			
X3		114								
GR	132	170	122	200	112	230	114.93	245.78	122	266.99
GR	132	296.99								
X1	6900	6	200	266.99	99.68	100.32	100			
X3		114.75								
GR	132.75	170	122.75	200	112.75	230	115.68	245.78	122.75	266.99
GR	132.75	296.99								
QT	1	428								
X1	7000	6	200	266.99	99.67	100.33	100			
X3		115.5								
GR	133.5	170	123.5	200	113.5	230	116.43	245.78	123.5	266.99
GR	133.5	296.99								
X1	7100	6	200	266.99	99.84	100.16	100			
X3		116.25								
GR	134.25	170	124.25	200	114.25	230	117.18	245.78	124.25	266.99
GR	134.25	296.99								
X1	7200	6	200	266.99	99.83	100.16	100			
X3		117								
GR	135	170	125	200	115	230	117.93	245.78	125	266.99
GR	135	296.99								
X1	7300	6	200	254.99	98.84	101.17	100			
X3		117.75								
GR	133.75	170	123.75	200	115.75	224	118.68	239.78	123.75	254.99
GR	133.75	284.99								
X1	7400	6	200	254.99	98.85	101.17	100			
X3		118.5								
GR	134.5	170	124.5	200	116.5	224	119.43	239.78	124.5	254.99
GR	134.5	284.99								
X1	7500	6	200	254.99	99.47	100.52	100			
X3		119.25								
GR	135.25	170	125.25	200	117.25	224	120.18	239.78	125.25	254.99
GR	135.25	284.99								

X1	7600	6	200	254.99	99.46	100.53	100			
X3		120								
GR	136	170	126	200	118	224	120.93	239.78	126	254.99
GR	136	284.99								
X1	7800	6	200	254.99	196.29	203.71	200			
X3		121.5								
GR	137.5	170	127.5	200	119.5	224	122.43	239.78	127.5	254.99
GR	137.5	284.99								
X1	8000	6	200	254.99	199.4	200.6	200			
X3		123								
GR	139	170	129	200	121	224	123.93	239.78	129	254.99
GR	139	284.99								
X1	8200	7	200	254.99	192.62	203.75	200			
X3		124.5								
GR	135	75	130.5	100	130.5	200	122.5	224	125.43	239.78
GR	130.5	254.99	140.5	284.99						
QT	1	357								
X1	8400	6	200	254.99	191.51	203.39	200			
X3		126								
GR	142	135	132	200	124	224	126.93	239.78	132	254.99
GR	142	284.99								
X1	8600	6	200	254.99	210.12	190.02	200			
X3		127.5								
GR	139	135	133.5	200	125.5	224	128.43	239.78	133.5	254.99
GR	143.5	284.99								
X1	8800	8	211	254.99	198.47	201.87	200			
X3		129								
GR	136	37	134	98	130	180	128	211	127	224
GR	129.93	239.78	135	254.99	145	284.99				

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300

*SECNO .000

3840 SECTION NOT HIGH ENOUGH 207.868 161.000 89.000 161.000 92.000 14

.000	18.43	107.43	97.76	90.00	107.68	.26	.00	.00	101.00
5325.0	96.6	5131.7	96.6	62.0	1243.6	62.0	.0	.0	101.00
.00	1.56	4.13	1.56	.100	.100	.100	.000	89.00	180.72
.002493	0.	0.	0.	0	32	8	.00	129.55	310.27

*SECNO 200.000

200.000	18.43	107.93	98.30	.00	108.18	.26	.50	.00	101.50
5325.0	96.6	5131.8	96.6	61.9	1243.5	61.9	6.3	.6	101.50
.01	1.56	4.13	1.56	.100	.100	.100	.000	89.50	180.72
.002494	202.	200.	198.	0	11	0	.00	129.54	310.27

*SECNO 400.000

400.000	18.42	108.42	98.80	.00	108.68	.26	.50	.00	102.00
5325.0	96.6	5131.8	96.6	61.9	1243.4	61.9	12.6	1.2	102.00
.03	1.56	4.13	1.56	.100	.100	.100	.000	90.00	180.73
.002494	203.	200.	197.	0	11	0	.00	129.54	310.26

*SECNO 600.000

600.000	18.42	108.92	99.30	.00	109.18	.26	.50	.00	102.50
5325.0	96.5	5131.9	96.5	61.9	1243.3	61.9	18.8	1.8	102.50
.04	1.56	4.13	1.56	.100	.100	.100	.000	90.50	180.73
.002495	200.	200.	200.	0	11	0	.00	129.53	310.26

*SECNO 700.000

700.000	18.17	109.17	99.80	.00	109.44	.27	.26	.00	103.00
5325.0	92.1	5140.7	92.1	58.6	1220.5	58.6	21.9	2.1	103.00
.05	1.57	4.21	1.57	.100	.100	.100	.000	91.00	181.01
.002663	101.	100.	99.	0	11	0	.00	128.97	309.98

*SECNO 800.000

800.000	18.44	109.44	99.79	.00	109.70	.26	.26	.00	103.00
5325.0	96.9	5131.2	96.9	62.2	1244.5	62.2	25.0	2.4	103.00
.05	1.56	4.12	1.56	.100	.100	.100	.000	91.00	180.69
.002486	101.	100.	99.	1	11	0	.00	129.61	310.30

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1000.000									
1000.000	18.44	109.94	100.26	.00	110.20	.26	.50	.00	103.50
5326.0	97.3	5131.5	97.3	62.4	1245.6	62.4	31.3	3.0	103.50
.07	1.56	4.12	1.56	.100	.100	.100	.000	91.50	180.65
.002479	196.	200.	204.	1	14	0	.00	129.68	310.34
*SECNO 1200.000									
1200.000	18.44	110.44	100.76	.00	110.69	.26	.50	.00	104.00
5326.0	96.9	5132.2	96.9	62.1	1244.5	62.1	37.6	3.6	104.00
.08	1.56	4.12	1.56	.100	.100	.100	.000	92.00	180.69
.002487	197.	200.	203.	0	14	0	.00	129.61	310.30
*SECNO 1400.000									
1400.000	18.43	110.93	101.30	.00	111.19	.26	.50	.00	104.50
5326.0	96.8	5132.4	96.8	62.1	1244.1	62.1	43.9	4.2	104.50
.10	1.56	4.13	1.56	.100	.100	.100	.000	92.50	180.70
.002490	200.	200.	200.	0	11	0	.00	129.59	310.29
*SECNO 1600.000									
1600.000	18.43	111.43	101.80	.00	111.69	.26	.50	.00	105.00
5326.0	96.8	5132.5	96.8	62.0	1244.0	62.0	50.2	4.8	105.00
.11	1.56	4.13	1.56	.100	.100	.100	.000	93.00	180.71
.002491	204.	200.	196.	0	11	0	.00	129.58	310.28
*SECNO 1800.000									
1800.000	18.44	111.94	102.30	.00	112.18	.24	.49	.00	105.50
5326.0	204.4	5026.9	94.8	130.2	1243.9	62.0	56.6	5.4	105.50
.12	1.57	4.04	1.53	.100	.100	.100	.000	93.50	159.49
.002390	204.	200.	196.	0	11	0	.00	150.79	310.28
*SECNO 2000.000									
2000.000	18.41	112.41	102.74	.00	112.66	.24	.48	.00	106.00
5297.0	94.5	5030.7	171.8	61.8	1242.9	110.9	63.2	6.1	106.00
.14	1.53	4.05	1.55	.100	.100	.100	.000	94.00	180.74
.002400	206.	200.	194.	1	14	0	.00	153.77	334.51

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2300.000									
2300.000	18.62	113.12	103.24	.00	113.31	.19	.65	.01	106.50
5297.0	561.1	4645.7	90.2	385.5	1261.7	64.3	74.0	7.4	106.50
.16	1.46	3.68	1.40	.100	.100	.100	.000	94.50	83.64
.001947	303.	300.	297.	1	14	0	.00	226.74	310.38
*SECNO 2500.000									
2500.000	18.50	113.50	102.90	.00	113.66	.16	.35	.00	107.00
4333.0	139.7	4116.1	77.2	111.1	1250.6	61.9	81.1	8.3	107.00
.18	1.26	3.29	1.25	.100	.100	.100	.000	95.00	157.16
.001574	198.	200.	202.	2	18	0	.00	152.87	310.03
*SECNO 2600.000									
2600.000	18.16	113.66	103.40	.00	113.84	.18	.17	.01	107.50
4333.0	72.8	4187.5	72.8	56.9	1219.2	56.9	84.3	8.6	107.50
.19	1.28	3.43	1.28	.100	.100	.100	.000	95.50	181.52
.001773	96.	100.	104.	2	18	0	.00	127.94	309.47
*SECNO 2800.000									
2800.000	18.02	114.02	103.92	.00	114.20	.18	.36	.00	108.00
4333.0	69.7	4193.6	69.7	54.3	1206.3	54.3	90.4	9.2	108.00
.20	1.28	3.48	1.28	.100	.100	.100	.000	96.00	181.95
.001842	195.	200.	204.	2	14	0	.00	127.09	309.04
*SECNO 3000.000									
3000.000	17.89	114.39	104.42	.00	114.58	.19	.38	.00	108.50
4333.0	66.9	4199.3	66.9	51.9	1194.2	51.9	96.4	9.8	108.50
.22	1.29	3.52	1.29	.100	.100	.100	.000	96.50	182.35
.001911	197.	200.	203.	1	14	0	.00	126.29	308.64
*SECNO 3200.000									
3200.000	17.77	114.77	104.91	.00	114.97	.19	.39	.00	109.00
4333.0	64.5	4204.1	64.5	49.9	1183.8	49.9	102.3	10.4	109.00
.24	1.29	3.55	1.29	.100	.100	.100	.000	97.00	182.69
.001972	203.	200.	197.	1	14	0	.00	125.61	308.30

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

*SECNO 3400.000

3400.000	17.67	115.17	105.41	.00	115.37	.19	.40	.00	109.50
4333.0	64.5	4206.3	62.2	48.2	1174.1	48.1	108.2	10.9	109.50
.25	1.34	3.58	1.29	.100	.100	.100	.000	97.50	178.28
.002029	202.	200.	198.	0	14	0	.00	129.70	307.98

*SECNO 3600.000

3600.000	17.58	115.58	105.91	.00	115.78	.20	.41	.00	110.00
4333.0	60.4	4212.2	60.4	46.6	1165.9	46.6	114.0	11.5	110.00
.27	1.30	3.61	1.30	.100	.100	.100	.000	98.00	183.28
.002083	199.	200.	202.	0	14	0	.00	124.42	307.71

*SECNO 3800.000

3800.000	17.50	116.00	106.40	.00	116.20	.20	.42	.00	110.50
4333.0	58.7	4215.5	58.7	45.2	1158.5	45.2	119.7	12.1	110.50
.28	1.30	3.64	1.30	.100	.100	.100	.000	98.50	183.52
.002130	196.	200.	204.	0	14	0	.00	123.94	307.47

*SECNO 4000.000

4000.000	17.43	116.43	106.90	.00	116.61	.18	.41	.00	111.00
4333.0	274.3	4004.2	54.5	173.2	1152.7	44.2	125.7	12.7	111.00
.30	1.58	3.47	1.23	.100	.100	.100	.000	99.00	145.84
.001954	199.	200.	201.	1	14	0	.00	161.44	307.27

*SECNO 4300.000

4300.000	17.53	117.03	107.40	.00	117.23	.20	.61	.01	111.50
4333.0	58.2	4216.7	58.2	44.9	1162.7	44.9	134.8	13.7	111.50
.32	1.30	3.63	1.30	.100	.100	.100	.000	99.50	183.79
.002106	306.	300.	294.	1	14	0	.00	123.40	307.20

*SECNO 4400.000

4400.000	17.27	117.27	107.32	.00	117.42	.15	.19	.00	112.00
3725.0	46.6	3631.8	46.6	41.6	1138.0	41.6	137.6	14.0	112.00
.33	1.12	3.19	1.12	.100	.100	.100	.000	100.00	184.20
.001678	100.	100.	100.	2	18	0	.00	122.58	306.79

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 4600.000									
4600.000	17.11	117.61	107.82	.00	117.77	.16	.34	.00	112.50
3725.0	43.9	3637.1	43.9	39.1	1123.4	39.1	143.2	14.6	112.50
.35	1.12	3.24	1.12	.100	.100	.100	.000	100.50	184.68
.001757	199.	200.	201.	2	18	0	.00	121.62	306.31
*SECNO 4700.000									
4700.000	17.03	117.78	108.07	.00	117.94	.16	.18	.00	112.75
3725.0	42.6	3639.7	42.6	37.9	1116.3	37.9	145.9	14.8	112.75
.36	1.12	3.26	1.12	.100	.100	.100	.000	100.75	184.92
.001797	104.	100.	96.	0	18	0	.00	121.15	306.07
*SECNO 4900.000									
4900.000	16.90	118.15	108.57	.00	118.30	.16	.36	.00	113.25
3725.0	114.5	3578.0	32.5	100.4	1103.5	29.9	151.5	15.5	113.25
.38	1.14	3.24	1.09	.100	.100	.100	.000	101.25	158.90
.001805	202.	200.	198.	0	18	0	.00	144.31	303.21
*SECNO 5200.000									
5200.000	16.68	118.68	108.87	.00	118.81	.14	.51	.00	114.00
3247.0	99.7	3114.1	33.2	96.1	1035.1	33.0	159.8	16.4	114.00
.41	1.04	3.01	1.01	.100	.100	.100	.000	102.00	158.99
.001580	307.	300.	294.	0	18	0	.00	140.97	299.95
*SECNO 5400.000									
5400.000	15.51	119.01	110.16	.00	119.16	.15	.34	.00	113.50
3247.0	54.7	3137.6	54.7	45.6	988.4	45.6	164.9	17.0	113.50
.42	1.20	3.17	1.20	.100	.100	.100	.000	103.50	183.46
.001811	206.	200.	194.	1	18	0	.00	118.06	301.53
*SECNO 5600.000									
5600.000	14.42	119.42	111.83	.00	119.64	.21	.46	.02	116.00
3247.0	19.8	3207.4	19.8	17.6	861.8	17.6	169.5	17.6	116.00
.44	1.13	3.72	1.13	.100	.100	.100	.000	105.00	189.73
.003016	200.	200.	200.	2	14	0	.00	105.53	295.26

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5800.000									
5800.000	13.59	120.09	113.32	.00	120.35	.26	.70	.01	117.50
3247.0	10.9	3225.2	10.9	10.1	790.9	10.1	173.4	18.0	117.50
.45	1.09	4.08	1.09	.100	.100	.100	.000	106.50	192.23
.004060	200.	200.	200.	2	14	0	.00	100.52	292.76
*SECNO 6000.000									
6000.000	12.97	120.97	114.84	.00	121.27	.30	.91	.01	119.00
3247.0	5.9	3235.1	5.9	5.8	738.3	5.8	177.0	18.5	119.00
.46	1.02	4.38	1.02	.100	.100	.100	.000	108.00	194.09
.005137	195.	200.	205.	2	8	0	.00	96.81	290.90
*SECNO 6200.000									
6200.000	12.56	122.06	116.32	.00	122.39	.33	1.11	.01	120.50
3247.0	13.4	3230.1	3.4	13.8	703.5	3.7	180.3	19.0	120.50
.48	.97	4.59	.94	.100	.100	.100	.000	109.50	182.31
.006017	199.	200.	201.	2	11	0	.00	107.36	289.67
*SECNO 6400.000									
6400.000	12.22	123.22	117.83	.00	123.58	.36	1.18	.01	119.00
3247.0	132.3	3066.6	48.1	71.3	625.8	26.7	183.7	19.5	119.00
.49	1.85	4.90	1.80	.100	.100	.100	.000	111.00	166.22
.005807	206.	200.	195.	2	11	0	.00	113.44	279.66
*SECNO 6600.000									
6600.000	11.71	124.21	117.14	.00	124.30	.09	.70	.03	120.50
1557.0	60.2	1478.7	18.1	66.7	591.5	20.7	186.9	20.0	120.50
.51	.90	2.50	.87	.100	.100	.100	.000	112.50	164.05
.001629	203.	200.	197.	2	18	0	.00	114.07	278.13
*SECNO 6700.000									
6700.000	11.13	124.38	117.88	.00	124.50	.12	.19	.01	121.25
1557.0	13.3	1530.4	13.3	14.7	552.7	14.7	188.3	20.2	121.25
.52	.90	2.77	.90	.100	.100	.100	.000	113.25	190.60
.002187	101.	100.	99.	2	18	0	.00	85.79	276.39

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6800.000									
6800.000	10.61	124.61	118.63	.00	124.75	.14	.24	.01	122.00
1557.0	9.2	1538.6	9.2	10.2	518.0	10.2	189.6	20.4	122.00
.53	.90	2.97	.90	.100	.100	.100	.000	114.00	192.16
.002745	101.	100.	99.	2	18	0	.00	82.67	274.83
*SECNO 6900.000									
6900.000	10.15	124.90	119.39	.00	125.06	.15	.30	.01	122.75
1557.0	6.1	1544.8	6.1	7.0	487.2	7.0	190.8	20.6	122.75
.54	.88	3.17	.88	.100	.100	.100	.000	114.75	193.54
.003394	100.	100.	100.	2	14	0	.00	79.92	273.45
*SECNO 7000.000									
7000.000	9.71	125.21	117.75	.00	125.23	.01	.15	.01	123.50
428.0	1.0	426.0	1.0	4.4	457.6	4.4	191.9	20.8	123.50
.57	.23	.93	.23	.100	.100	.100	.000	115.50	194.87
.000318	100.	100.	100.	0	17	0	.00	77.26	272.12
*SECNO 7100.000									
7100.000	9.00	125.25	118.49	.00	125.27	.02	.04	.00	124.25
428.0	.3	427.4	.3	1.5	409.8	1.5	192.9	20.9	124.25
.60	.19	1.04	.19	.100	.100	.100	.000	116.25	197.00
.000463	100.	100.	100.	2	17	0	.00	72.99	269.99
*SECNO 7200.000									
7200.000	8.30	125.30	119.25	.00	125.32	.02	.06	.00	125.00
428.0	.0	428.0	.0	.1	362.7	.1	193.8	21.1	125.00
.62	.11	1.18	.11	.100	.100	.100	.000	117.00	199.11
.000697	100.	100.	100.	1	11	0	.00	68.76	267.88
*SECNO 7300.000									
7300.000	7.63	125.38	119.99	.00	125.40	.03	.08	.00	123.75
428.0	1.5	425.1	1.5	3.9	309.9	3.9	194.6	21.3	123.75
.64	.37	1.37	.37	.100	.100	.100	.000	117.75	195.15
.000889	99.	100.	101.	1	14	0	.00	64.70	259.84

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 7400.000									
7400.000	6.98	125.48	120.75	.00	125.51	.04	.11	.00	124.50
428.0	.5	427.1	.5	1.4	274.7	1.4	195.3	21.4	124.50
.66	.33	1.55	.33	.100	.100	.100	.000	118.50	197.07
.001341	99.	100.	101.	2	14	0	.00	60.85	257.92
*SECNO 7500.000									
7500.000	6.38	125.63	121.49	.00	125.68	.05	.16	.00	125.25
428.0	.0	427.9	.0	.2	242.0	.2	195.9	21.5	125.25
.67	.22	1.77	.22	.100	.100	.100	.000	119.25	198.85
.002053	99.	100.	101.	2	17	0	.00	57.29	256.14
*SECNO 7600.000									
7600.000	5.87	125.87	122.24	.00	125.93	.06	.25	.00	126.00
428.0	.0	428.0	.0	.0	213.9	.0	196.4	21.7	126.00
.69	.00	2.00	.00	.000	.100	.000	.000	120.00	200.39
.003041	99.	100.	101.	2	22	0	.00	54.22	254.60
*SECNO 7800.000									
7800.000	5.13	126.63	123.74	.00	126.73	.09	.78	.01	127.50
428.0	.0	428.0	.0	.0	175.5	.0	197.3	21.9	127.50
.71	.00	2.44	.00	.000	.100	.000	.000	121.50	202.60
.005236	196.	200.	204.	2	18	0	.00	49.79	252.39
*SECNO 8000.000									
8000.000	4.81	127.81	125.25	.00	127.92	.11	1.19	.01	129.00
428.0	.0	428.0	.0	.0	159.6	.0	198.1	22.1	129.00
.73	.00	2.68	.00	.000	.100	.000	.000	123.00	203.58
.006807	199.	200.	201.	2	14	0	.00	47.83	251.41
*SECNO 8200.000									
8200.000	4.72	129.22	126.74	.00	129.34	.12	1.41	.00	130.50
428.0	.0	428.0	.0	.0	155.3	.0	198.8	22.4	130.50
.75	.00	2.76	.00	.000	.100	.000	.000	124.50	203.85
.007339	193.	200.	204.	2	14	0	.00	47.29	251.14

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

*SECNO 8400.000

8400.000	4.56	130.56	128.02	.00	130.65	.09	1.32	.00	132.00
357.0	.0	357.0	.0	.0	148.2	.0	199.5	22.6	132.00
.77	.00	2.41	.00	.000	.100	.000	.000	126.00	204.31
.005817	192.	200.	203.	2	14	0	.00	46.38	250.68

*SECNO 8600.000

8600.000	4.34	131.84	129.52	.00	131.94	.10	1.28	.00	133.50
357.0	.0	357.0	.0	.0	137.8	.0	200.2	22.8	133.50
.80	.00	2.59	.00	.000	.100	.000	.000	127.50	204.99
.007112	210.	200.	190.	2	14	0	.00	45.02	250.00

*SECNO 8800.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.92

8800.000	3.59	132.59	130.22	.00	132.62	.02	.67	.01	129.00
357.0	205.3	151.7	.0	172.5	111.7	.0	201.1	23.2	135.00
.84	1.19	1.36	.00	.100	.100	.000	.000	129.00	126.85
.001934	198.	200.	202.	3	14	0	.00	120.92	247.77

THIS RUN EXECUTED 02AUG95 12:46:56

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

SEDIMENT IN CHANNEL 2.0

SUMMARY PRINTOUT

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
.000	5325.00	107.43	89.00	18.43	129.55	1367.51	4.13	.20
200.000	5325.00	107.93	89.50	18.43	129.54	1367.32	4.13	.20
400.000	5325.00	108.42	90.00	18.42	129.54	1367.22	4.13	.20
600.000	5325.00	108.92	90.50	18.42	129.53	1367.01	4.13	.20
700.000	5325.00	109.17	91.00	18.17	128.97	1337.72	4.21	.20
800.000	5325.00	109.44	91.00	18.44	129.61	1368.85	4.12	.20
1000.000	5326.00	109.94	91.50	18.44	129.68	1370.38	4.12	.20
1200.000	5326.00	110.44	92.00	18.44	129.61	1368.78	4.12	.20
1400.000	5326.00	110.93	92.50	18.43	129.59	1368.28	4.13	.20
1600.000	5326.00	111.43	93.00	18.43	129.58	1368.08	4.13	.20
1800.000	5326.00	111.94	93.50	18.44	150.79	1436.16	4.04	.19
2000.000	5297.00	112.41	94.00	18.41	153.77	1415.53	4.05	.19
2300.000	5297.00	113.12	94.50	18.62	226.74	1711.50	3.68	.17
2500.000	4333.00	113.50	95.00	18.50	152.87	1423.60	3.29	.16
2600.000	4333.00	113.66	95.50	18.16	127.94	1333.02	3.43	.17
2800.000	4333.00	114.02	96.00	18.02	127.09	1314.94	3.48	.17
3000.000	4333.00	114.39	96.50	17.89	126.29	1298.07	3.52	.17

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
3200.000	4333.00	114.77	97.00	17.77	125.61	1283.65	3.55	.17
3400.000	4333.00	115.17	97.50	17.67	129.70	1270.42	3.58	.18
3600.000	4333.00	115.58	98.00	17.58	124.42	1259.02	3.61	.18
3800.000	4333.00	116.00	98.50	17.50	123.94	1249.02	3.64	.18
4000.000	4333.00	116.43	99.00	17.43	161.44	1370.14	3.47	.17
4300.000	4333.00	117.03	99.50	17.53	123.40	1252.40	3.63	.18
4400.000	3725.00	117.27	100.00	17.27	122.58	1221.13	3.19	.16
4600.000	3725.00	117.61	100.50	17.11	121.62	1201.61	3.24	.16
4700.000	3725.00	117.78	100.75	17.03	121.15	1192.12	3.26	.16
4900.000	3725.00	118.15	101.25	16.90	144.31	1233.81	3.24	.16
5200.000	3247.00	118.68	102.00	16.68	140.97	1164.13	3.01	.15
5400.000	3247.00	119.01	103.50	15.51	118.06	1079.56	3.17	.16
5600.000	3247.00	119.42	105.00	14.42	105.53	896.97	3.72	.21
5800.000	3247.00	120.09	106.50	13.59	100.52	810.96	4.08	.24
6000.000	3247.00	120.97	108.00	12.97	96.81	749.98	4.38	.26
6200.000	3247.00	122.06	109.50	12.56	107.36	720.95	4.59	.28
6400.000	3247.00	123.22	111.00	12.22	113.44	723.85	4.90	.28
6600.000	1557.00	124.21	112.50	11.71	114.07	678.92	2.50	.15
6700.000	1557.00	124.38	113.25	11.13	85.79	582.18	2.77	.17
6800.000	1557.00	124.61	114.00	10.61	82.67	538.50	2.97	.19
6900.000	1557.00	124.90	114.75	10.15	79.92	501.16	3.17	.21
7000.000	428.00	125.21	115.50	9.71	77.26	466.34	.93	.06
7100.000	428.00	125.25	116.25	9.00	72.99	412.82	1.04	.07
7200.000	428.00	125.30	117.00	8.30	68.76	362.92	1.18	.09
7300.000	428.00	125.38	117.75	7.63	64.70	317.72	1.37	.10
7400.000	428.00	125.48	118.50	6.98	60.85	277.52	1.55	.12

	SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
	7500.000	428.00	125.63	119.25	6.38	57.29	242.45	1.77	.15
	7600.000	428.00	125.87	120.00	5.87	54.22	213.90	2.00	.18
	7800.000	428.00	126.63	121.50	5.13	49.79	175.51	2.44	.23
	8000.000	428.00	127.81	123.00	4.81	47.83	159.59	2.68	.26
	8200.000	428.00	129.22	124.50	4.72	47.29	155.30	2.76	.27
	8400.000	357.00	130.56	126.00	4.56	46.38	148.16	2.41	.24
	8600.000	357.00	131.84	127.50	4.34	45.02	137.80	2.59	.26
*	8800.000	357.00	132.59	129.00	3.59	120.92	284.22	1.36	.14

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 8800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

```
*********************************************
*  HEC-2 WATER SURFACE PROFILES             *
*                                           *
*  Version   4.6.2;  May 1991               *
*                                           *
*  RUN DATE    17JUL95    TIME   10:39:27   *
*********************************************
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*********************************
*  U.S. ARMY CORPS OF ENGINEERS
*  HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
*********************************
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PMF Analysis

SHERWOOD

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

ASSUMPTIONS

1) No sediment in channel
2) "n" = 0.10 to account for trees growing in channel
3) Froude No. in Output
4) 3:1 side slopes extended

THIS RUN EXECUTED 17JUL95 10:39:27

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

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


T1      INPUT FILE NAME: P:\317\TASK31\SEDIMENT\HEC2\SHERSEDX.IH2----SUBCRITICAL
T2      DATE:06/95   DIVERSION CHANNEL ASSUMING TREES IN CHANNEL ("n"=0.1) AND
T3      NO SEDIMENT IN CHANNEL.


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                 0     .0025       0        0        0     100.48

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     -1                -1                                   -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43       1        42       8        4        25       26       68


NC     0.1      0.1      0.1      0.1      0.3
QT       1     5325
X1       0        6      200   290.99        0        0        0
GR     111      170      101      200       87      242    89.93   257.78      101   290.99
GR     111   320.99


X1     200        6      200   290.99   201.61   198.48      200
GR   111.5      170    101.5      200     87.5      242    90.43   257.78    101.5   290.99
GR   111.5   320.99


X1     400        6      200   290.99   203.24   197.46      200
GR     112      170      102      200       88      242    90.93   257.78      102   290.99
GR     112   320.99


X1     600        6      200   290.99      200      200      200
GR   112.5      170    102.5      200     88.5      242    91.43   257.78    102.5   290.99
GR   112.5   320.99


X1     700        6      200   290.99   100.99    99.26      100
GR  112.75      170      103      200       89      242    91.93   257.78      103   290.99
GR  112.75   320.99
```

X1	800	6	200	290.99	100.99	99.26	100			
GR	113	170	103	200	89	242	91.93	257.78	103	290.99
GR	113	320.99								
QT	1	5326								
X1	1000	6	200	290.99	195.76	204.31	200			
GR	113.5	170	103.5	200	89.5	242	92.43	257.78	103.5	290.99
GR	113.5	320.99								
X1	1200	6	200	290.99	196.98	203.14	200			
GR	114	170	104	200	90	242	92.93	257.78	104	290.99
GR	114	320.99								
X1	1400	6	200	290.99	200.1	199.78	200			
GR	114.5	170	104.5	200	90.5	242	93.43	257.78	104.5	290.99
GR	114.5	320.99								
X1	1600	6	200	290.99	203.63	196	200			
GR	115	170	105	200	91	242	93.93	257.78	105	290.99
GR	115	320.99								
X1	1800	6	200	290.99	204.45	195.93	200			
GR	115.5	137	105.5	200	91.5	242	94.43	257.78	105.5	290.99
GR	115.5	320.99								
QT	1	5297								
X1	2000	8	200	290.99	206.03	194.18	200			
GR	116	170	106	200	92	242	94.93	257.78	106	290.99
GR	109.5	303.99	112	333.99	116	338.99				
X1	2300	6	200	290.99	302.91	296.91	300			
GR	116.75	20	106.5	200	92.5	242	95.43	257.78	106.5	290.99
GR	116.75	320.99								
QT	1	4333								
X1	2500	8	200	290.99	197.98	202.05	200			
GR	117.25	133.25	112	166.75	110	191.75	107	200	93	242
GR	95.93	257.78	107	290.99	117.25	320.99				

X1	2600	6	200	290.99	95.84	104.14	100			
GR	117.5	170	107.5	200	93.5	242	96.43	257.78	107.5	290.99
GR	117.5	320.99								
X1	2800	6	200	290.99	195.31	203.77	200			
GR	118	170	108	200	94	242	96.93	257.78	108	290.99
GR	118	320.99								
X1	3000	6	200	290.99	196.79	203.1	200			
GR	118.5	170	108.5	200	94.5	242	97.43	257.78	108.5	290.99
GR	118.5	320.99								
X1	3200	6	200	290.99	202.86	196.79	200			
GR	119	170	109	200	95	242	97.93	257.78	109	290.99
GR	119	320.99								
X1	3400	7	200	290.99	202.15	197.69	200			
GR	119.5	131	114.5	185.5	109.5	200	95.5	242	98.43	257.78
GR	109.5	290.99	119.5	320.99						
X1	3600	6	200	290.99	198.73	201.73	200			
GR	120	170	110	200	96	242	98.93	257.78	110	290.99
GR	120	320.99								
X1	3800	6	200	290.99	196.34	203.70	200			
GR	120.5	170	110.5	200	96.5	242	99.43	257.78	110.5	290.99
GR	120.5	320.99								
X1	4000	8	200	290.99	199.39	200.58	200			
GR	121	117	114.5	158	112	184	111	200	97	242
GR	99.93	257.78	111	290.99	121	320.99				
X1	4300	6	200	290.99	305.81	294.2	300			
GR	121.75	170	111.5	200	97.5	242	100.43	257.78	111.5	290.99
GR	121.75	320.99								
QT	1	3725								
X1	4400	6	200	290.99	99.71	100.29	100			
GR	122	170	112	200	98	242	100.93	257.78	112	290.99
GR	122	320.99								

X1	4600	6	200	290.99	199.21	200.78	200			
GR	122.5	170	112.5	200	98.5	242	101.43	257.78	112.5	290.99
GR	122.5	320.99								
X1	4700	6	200	290.99	103.78	96.24	100			
GR	122.75	170	112.75	200	98.75	242	101.68	257.78	112.75	290.99
GR	122.75	320.99								
X1	4900	6	200	290.99	202.21	197.8	200			
GR	123	118	113.25	200	99.25	242	102.18	257.78	113.25	290.99
GR	125.25	320.99								
QT	1	3247								
X1	5200	6	200	285.89	306.91	294	300			
GR	122	130	114	200	100	239	102.63	254.78	114	285.89
GR	124	315.89								
X1	5400	6	200	284.99	205.7	194.4	200			
GR	123.5	170	113.5	200	101.5	239	104.43	254.78	113.5	284.99
GR	123.5	314.99								
X1	5600	6	200	284.99	199.85	200.1	200			
GR	126	170	116	200	103	239	105.93	254.78	116	284.99
GR	126	314.99								
X1	5800	6	200	284.99	199.86	200.45	200			
GR	127.5	170	117.5	200	104.5	239	107.43	254.78	117.5	284.99
GR	127.5	314.99								
X1	6000	6	200	284.99	195.23	204.69	200			
GR	129	170	119	200	106	239	108.93	254.78	119	284.99
GR	129	314.99								
X1	6200	6	200	284.99	199.44	200.6	200			
GR	128	115	120.5	200	107.5	239	110.43	254.78	120.5	284.99
GR	130.5	314.99								
X1	6400	6	200	266.99	205.51	194.59	200			
GR	129	120	119	200	109	230	111.93	245.78	119	266.99
GR	129	296.99								

QT	1	1557								
X1	6600	6	200	266.99	203.03	196.86	200			
GR	130	108	120.5	200	110.5	230	113.43	245.78	120.5	266.99
GR	130.5	296.99								
X1	6700	6	200	266.99	101.2	98.8	100			
GR	131.25	170	121.25	200	111.25	230	114.18	245.78	121.25	266.99
GR	131.25	296.99								
X1	6800	6	200	266.99	101.19	98.8	100			
GR	132	170	122	200	112	230	114.93	245.78	122	266.99
GR	132	296.99								
X1	6900	6	200	266.99	99.68	100.32	100			
GR	132.75	170	122.75	200	112.75	230	115.68	245.78	122.75	266.99
GR	132.75	296.99								
QT	1	428								
X1	7000	6	200	266.99	99.67	100.33	100			
GR	133.5	170	123.5	200	113.5	230	116.43	245.78	123.5	266.99
GR	133.5	296.99								
X1	7100	6	200	266.99	99.84	100.16	100			
GR	134.25	170	124.25	200	114.25	230	117.18	245.78	124.25	266.99
GR	134.25	296.99								
X1	7200	6	200	266.99	99.83	100.16	100			
GR	135	170	125	200	115	230	117.93	245.78	125	266.99
GR	135	296.99								
X1	7300	6	200	254.99	98.84	101.17	100			
GR	133.75	170	123.75	200	115.75	224	118.68	239.78	123.75	254.99
GR	133.75	284.99								
X1	7400	6	200	254.99	98.85	101.17	100			
GR	134.5	170	124.5	200	116.5	224	119.43	239.78	124.5	254.99
GR	134.5	284.99								
X1	7500	6	200	254.99	99.47	100.52	100			
GR	135.25	170	125.25	200	117.25	224	120.18	239.78	125.25	254.99
GR	135.25	284.99								

X1	7600	6	200	254.99	99.46	100.53	100			
GR	136	170	126	200	118	224	120.93	239.78	126	254.99
GR	136	284.99								
X1	7800	6	200	254.99	196.29	203.71	200			
GR	137.5	170	127.5	200	119.5	224	122.43	239.78	127.5	254.99
GR	137.5	284.99								
X1	8000	6	200	254.99	199.4	200.6	200			
GR	139	170	129	200	121	224	123.93	239.78	129	254.99
GR	139	284.99								
X1	8200	7	200	254.99	192.62	203.75	200			
GR	135	75	130.5	100	130.5	200	122.5	224	125.43	239.78
GR	130.5	254.99	140.5	284.99						
QT	1	357								
X1	8400	6	200	254.99	191.51	203.39	200			
GR	142	135	132	200	124	224	126.93	239.78	132	254.99
GR	142	284.99								
X1	8600	6	200	254.99	210.12	190.02	200			
GR	139	135	133.5	200	125.5	224	128.43	239.78	133.5	254.99
GR	143.5	284.99								
X1	8800	8	211	254.99	198.47	201.87	200			
GR	136	37	134	98	130	180	128	211	127	224
GR	129.93	239.78	135	254.99	145	284.99				

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300

*SECNO .000

.000	20.25	107.25	97.46	100.48	107.51	.26	.00	.00	101.00
5325.0	90.2	5144.5	90.2	58.6	1244.5	58.6	.0	.0	101.00
.00	1.54	4.13	1.54	.100	.100	.100	.000	87.00	181.24
.002517	0.	0.	0.	0	15	5	.00	128.50	309.75

*SECNO 200.000

200.000	20.26	107.76	97.96	.00	108.01	.26	.50	.00	101.50
5325.0	90.3	5144.4	90.3	58.7	1244.8	58.7	6.3	.6	101.50
.01	1.54	4.13	1.54	.100	.100	.100	.000	87.50	181.23
.002515	202.	200.	198.	0	11	0	.00	128.52	309.76

*SECNO 400.000

400.000	20.26	108.26	98.46	.00	108.52	.26	.50	.00	102.00
5325.0	90.4	5144.2	90.4	58.8	1245.1	58.8	12.5	1.2	102.00
.03	1.54	4.13	1.54	.100	.100	.100	.000	88.00	181.22
.002512	203.	200.	197.	0	11	0	.00	128.54	309.77

*SECNO 600.000

600.000	20.26	108.76	98.96	.00	109.02	.26	.50	.00	102.50
5325.0	90.5	5144.1	90.5	58.8	1245.3	58.8	18.8	1.8	102.50
.04	1.54	4.13	1.54	.100	.100	.100	.000	88.50	181.22
.002511	200.	200.	200.	0	11	0	.00	128.56	309.77

*SECNO 700.000

700.000	20.01	109.01	99.46	.00	109.28	.27	.26	.00	103.00
5325.0	86.1	5152.7	86.1	55.6	1222.7	55.6	21.9	2.1	103.00
.05	1.55	4.21	1.55	.100	.100	.100	.000	89.00	181.50
.002679	101.	100.	99.	0	11	0	.00	127.99	309.49

*SECNO 800.000

800.000	20.28	109.28	99.46	.00	109.54	.26	.26	.00	103.00
5325.0	90.9	5143.2	90.9	59.1	1246.8	59.1	25.0	2.4	103.00
.05	1.54	4.12	1.54	.100	.100	.100	.000	89.00	181.17
.002500	101.	100.	99.	1	11	0	.00	128.66	309.82

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1000.000									
1000.000	20.28	109.78	99.96	.00	110.04	.26	.50	.00	103.50
5326.0	91.3	5143.3	91.3	59.4	1248.2	59.4	31.2	3.0	103.50
.07	1.54	4.12	1.54	.100	.100	.100	.000	89.50	181.12
.002491	196.	200.	204.	1	11	0	.00	128.75	309.87
*SECNO 1200.000									
1200.000	20.28	110.28	100.46	.00	110.54	.26	.50	.00	104.00
5326.0	91.1	5143.9	91.1	59.2	1247.3	59.2	37.5	3.5	104.00
.08	1.54	4.12	1.54	.100	.100	.100	.000	90.00	181.15
.002498	197.	200.	203.	0	11	0	.00	128.69	309.84
*SECNO 1400.000									
1400.000	20.28	110.78	100.96	.00	111.04	.26	.50	.00	104.50
5326.0	91.0	5144.0	91.0	59.2	1247.1	59.2	43.8	4.1	104.50
.10	1.54	4.12	1.54	.100	.100	.100	.000	90.50	181.16
.002499	200.	200.	200.	0	11	0	.00	128.68	309.83
*SECNO 1600.000									
1600.000	20.28	111.28	101.46	.00	111.54	.26	.50	.00	105.00
5326.0	91.0	5144.0	91.0	59.2	1247.1	59.2	50.0	4.7	105.00
.11	1.54	4.12	1.54	.100	.100	.100	.000	91.00	181.16
.002499	204.	200.	196.	0	11	0	.00	128.68	309.83
*SECNO 1800.000									
1800.000	20.29	111.79	101.96	.00	112.03	.24	.49	.00	105.50
5326.0	192.6	5044.2	89.3	124.3	1247.2	59.2	56.5	5.4	105.50
.12	1.55	4.04	1.51	.100	.100	.100	.000	91.50	160.43
.002402	204.	200.	196.	0	11	0	.00	149.41	309.83
*SECNO 2000.000									
2000.000	20.27	112.27	102.44	.00	112.51	.24	.48	.00	106.00
5297.0	89.1	5049.3	158.6	59.0	1246.3	104.5	63.0	6.1	106.00
.14	1.51	4.05	1.52	.100	.100	.100	.000	92.00	181.18
.002413	206.	200.	194.	1	11	0	.00	153.15	334.33

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2300.000									
2300.000	20.48	112.98	102.94	.00	113.17	.19	.65	.01	106.50
5297.0	532.5	4678.9	85.6	369.1	1265.6	61.5	73.7	7.4	106.50
.16	1.44	3.70	1.39	.100	.100	.100	.000	92.50	86.14
.001969	303.	300.	297.	1	11	0	.00	223.82	309.97
*SECNO 2500.000									
2500.000	20.37	113.37	102.58	.00	113.53	.16	.36	.00	107.00
4333.0	129.9	4130.1	73.0	105.3	1254.9	59.3	80.8	8.2	107.00
.18	1.23	3.29	1.23	.100	.100	.100	.000	93.00	158.03
.001578	198.	200.	202.	2	14	0	.00	151.59	309.62
*SECNO 2600.000									
2600.000	20.02	113.52	103.08	.00	113.70	.18	.17	.00	107.50
4333.0	68.5	4196.0	68.5	54.4	1223.5	54.4	84.0	8.5	107.50
.19	1.26	3.43	1.26	.100	.100	.100	.000	93.50	181.93
.001772	96.	100.	104.	2	14	0	.00	127.12	309.06
*SECNO 2800.000									
2800.000	19.88	113.88	103.64	.00	114.06	.18	.36	.00	108.00
4333.0	65.5	4202.0	65.5	51.9	1210.6	51.9	90.1	9.1	108.00
.20	1.26	3.47	1.26	.100	.100	.100	.000	94.00	182.36
.001841	195.	200.	204.	2	11	0	.00	126.27	308.63
*SECNO 3000.000									
3000.000	19.75	114.25	104.13	.00	114.44	.19	.37	.00	108.50
4333.0	62.8	4207.5	62.8	49.5	1198.5	49.5	96.1	9.7	108.50
.22	1.27	3.51	1.27	.100	.100	.100	.000	94.50	182.76
.001909	197.	200.	203.	1	11	0	.00	125.47	308.23
*SECNO 3200.000									
3200.000	19.64	114.64	104.62	.00	114.83	.19	.39	.00	109.00
4333.0	60.4	4212.2	60.4	47.6	1188.0	47.6	102.0	10.3	109.00
.24	1.27	3.55	1.27	.100	.100	.100	.000	95.00	183.11
.001970	203.	200.	197.	1	11	0	.00	124.78	307.88

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 3400.000									
3400.000	19.53	115.03	105.12	.00	115.23	.19	.40	.00	109.50
4333.0	59.5	4215.2	58.2	45.4	1178.3	45.8	107.9	10.8	109.50
.25	1.31	3.58	1.27	.100	.100	.100	.000	95.50	179.78
.002028	202.	200.	198.	0	11	0	.00	127.78	307.56
*SECNO 3600.000									
3600.000	19.44	115.44	105.54	.00	115.64	.20	.41	.00	110.00
4333.0	56.4	4220.1	56.4	44.3	1170.1	44.3	113.7	11.4	110.00
.27	1.27	3.61	1.27	.100	.100	.100	.000	96.00	183.70
.002080	199.	200.	202.	0	8	0	.00	123.59	307.29
*SECNO 3800.000									
3800.000	19.36	115.86	106.06	.00	116.06	.20	.42	.00	110.50
4333.0	54.8	4223.3	54.8	43.0	1162.7	43.0	119.4	12.0	110.50
.28	1.28	3.63	1.28	.100	.100	.100	.000	96.50	183.94
.002128	196.	200.	204.	0	8	0	.00	123.11	307.05
*SECNO 4000.000									
4000.000	19.30	116.30	106.57	.00	116.47	.18	.41	.00	111.00
4333.0	258.1	4023.8	51.0	165.7	1156.8	42.0	125.4	12.6	111.00
.30	1.56	3.48	1.22	.100	.100	.100	.000	97.00	146.72
.001964	199.	200.	201.	1	8	0	.00	160.14	306.86
*SECNO 4300.000									
4300.000	19.39	116.89	107.08	.00	117.09	.20	.61	.01	111.50
4333.0	54.3	4224.3	54.3	42.7	1166.9	42.7	134.4	13.6	111.50
.32	1.27	3.62	1.27	.100	.100	.100	.000	97.50	184.20
.002103	306.	300.	294.	1	8	0	.00	122.60	306.79
*SECNO 4400.000									
4400.000	19.13	117.13	106.98	.00	117.28	.15	.19	.00	112.00
3725.0	43.4	3638.2	43.4	39.4	1142.2	39.4	137.3	13.9	112.00
.33	1.10	3.19	1.10	.100	.100	.100	.000	98.00	184.62
.001676	100.	100.	100.	2	14	0	.00	121.76	306.37

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 4600.000									
4600.000	18.97	117.47	107.48	.00	117.63	.16	.34	.00	112.50
3725.0	40.8	3643.4	40.8	37.0	1127.6	37.0	142.8	14.5	112.50
.35	1.10	3.23	1.10	.100	.100	.100	.000	98.50	185.10
.001754	199.	200.	201.	2	14	0	.00	120.79	305.89
*SECNO 4700.000									
4700.000	18.89	117.64	107.73	.00	117.80	.16	.18	.00	112.75
3725.0	39.5	3645.9	39.5	35.9	1120.5	35.9	145.6	14.7	112.75
.36	1.10	3.25	1.10	.100	.100	.100	.000	98.75	185.33
.001794	104.	100.	96.	0	14	0	.00	120.32	305.66
*SECNO 4900.000									
4900.000	18.76	118.01	108.23	.00	118.16	.16	.36	.00	113.25
3725.0	106.0	3588.8	30.1	94.8	1107.6	28.2	151.1	15.3	113.25
.38	1.12	3.24	1.07	.100	.100	.100	.000	99.25	160.07
.001806	202.	200.	198.	0	14	0	.00	142.79	302.86
*SECNO 5200.000									
5200.000	18.54	118.54	108.50	.00	118.68	.14	.51	.00	114.00
3247.0	91.8	3124.6	30.5	90.5	1040.6	31.0	159.4	16.3	114.00
.40	1.02	3.00	.98	.100	.100	.100	.000	100.00	160.21
.001574	307.	300.	294.	0	14	0	.00	139.32	299.53
*SECNO 5400.000									
5400.000	17.36	118.86	109.81	.00	119.02	.15	.34	.00	113.50
3247.0	50.9	3145.2	50.9	43.3	993.7	43.3	164.5	16.9	113.50
.42	1.18	3.16	1.18	.100	.100	.100	.000	101.50	183.89
.001801	206.	200.	194.	1	18	0	.00	117.22	301.10
*SECNO 5600.000									
5600.000	16.28	119.28	111.50	.00	119.49	.21	.46	.02	116.00
3247.0	17.6	3211.8	17.6	16.1	866.4	16.1	169.1	17.4	116.00
.44	1.09	3.71	1.09	.100	.100	.100	.000	103.00	190.16
.002994	200.	200.	200.	2	11	0	.00	104.67	294.83

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5800.000									
5800.000	15.44	119.94	112.97	.00	120.20	.25	.69	.01	117.50
3247.0	9.3	3228.4	9.3	8.9	795.0	8.9	173.0	17.9	117.50
.45	1.04	4.06	1.04	.100	.100	.100	.000	104.50	192.68
.004029	200.	200.	200.	2	11	0	.00	99.63	292.31
*SECNO 6000.000									
6000.000	14.82	120.82	114.49	.00	121.11	.29	.90	.01	119.00
3247.0	4.8	3237.5	4.8	4.9	741.9	4.9	176.6	18.3	119.00
.46	.96	4.36	.96	.100	.100	.100	.000	106.00	194.55
.005101	195.	200.	205.	2	11	0	.00	95.88	290.44
*SECNO 6200.000									
6200.000	14.40	121.90	116.01	.00	122.22	.32	1.10	.01	120.50
3247.0	10.0	3234.4	2.6	11.1	706.5	2.9	180.0	18.8	120.50
.48	.90	4.58	.88	.100	.100	.100	.000	107.50	184.15
.005992	199.	200.	201.	2	11	0	.00	105.04	289.19
*SECNO 6400.000									
6400.000	14.05	123.05	117.47	.00	123.41	.36	1.18	.01	119.00
3247.0	118.2	3085.8	43.0	65.7	631.2	24.6	183.3	19.3	119.00
.49	1.80	4.89	1.75	.100	.100	.100	.000	109.00	167.57
.005769	206.	200.	195.	2	14	0	.00	111.58	279.15
*SECNO 6600.000									
6600.000	13.54	124.04	116.69	.00	124.13	.09	.70	.03	120.50
1557.0	52.8	1488.3	15.9	60.6	596.7	18.8	186.5	19.8	120.50
.51	.87	2.49	.84	.100	.100	.100	.000	110.50	165.74
.001619	203.	200.	197.	2	18	0	.00	111.87	277.60
*SECNO 6700.000									
6700.000	12.96	124.21	117.44	.00	124.32	.12	.19	.01	121.25
1557.0	11.3	1534.3	11.3	13.1	557.8	13.1	188.0	20.0	121.25
.52	.86	2.75	.86	.100	.100	.100	.000	111.25	191.13
.002154	101.	100.	99.	2	14	0	.00	84.74	275.86

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6800.000									
6800.000	12.44	124.44	118.19	.00	124.57	.13	.24	.01	122.00
1557.0	7.6	1541.9	7.6	8.9	522.8	8.9	189.2	20.2	122.00
.53	.85	2.95	.85	.100	.100	.100	.000	112.00	192.69
.002699	101.	100.	99.	2	14	0	.00	81.60	274.30
*SECNO 6900.000									
6900.000	11.97	124.72	118.94	.00	124.87	.15	.30	.01	122.75
1557.0	4.8	1547.4	4.8	5.8	491.7	5.8	190.4	20.4	122.75
.54	.82	3.15	.82	.100	.100	.100	.000	112.75	194.09
.003335	100.	100.	100.	2	8	0	.00	78.82	272.90
*SECNO 7000.000									
7000.000	11.53	125.03	117.11	.00	125.04	.01	.15	.01	123.50
428.0	.7	426.5	.7	3.5	461.7	3.5	191.6	20.6	123.50
.57	.21	.92	.21	.100	.100	.100	.000	113.50	195.43
.000313	100.	100.	100.	0	17	0	.00	76.13	271.56
*SECNO 7100.000									
7100.000	10.81	125.06	117.86	.00	125.08	.02	.04	.00	124.25
428.0	.2	427.7	.2	1.0	414.0	1.0	192.6	20.8	124.25
.60	.17	1.03	.17	.100	.100	.100	.000	114.25	197.57
.000452	100.	100.	100.	2	17	0	.00	71.85	269.42
*SECNO 7200.000									
7200.000	10.11	125.11	118.61	.00	125.13	.02	.05	.00	125.00
428.0	.0	428.0	.0	.0	366.7	.0	193.5	20.9	125.00
.62	.00	1.17	.00	.000	.100	.000	.000	115.00	199.68
.000678	100.	100.	100.	1	22	0	.00	67.62	267.31
*SECNO 7300.000									
7300.000	9.43	125.18	119.36	.00	125.21	.03	.08	.00	123.75
428.0	1.0	426.0	1.0	3.0	316.1	3.0	194.3	21.1	123.75
.64	.33	1.35	.33	.100	.100	.100	.000	115.75	195.72
.000845	99.	100.	101.	1	22	0	.00	63.54	259.27

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 7400.000									
7400.000	8.78	125.28	120.11	.00	125.32	.04	.10	.00	124.50
428.0	.2	427.5	.2	.9	280.6	.9	195.0	21.2	124.50
.66	.27	1.52	.27	.100	.100	.100	.000	116.50	197.66
.001267	99.	100.	101.	2	22	0	.00	59.67	257.33
*SECNO 7500.000									
7500.000	8.18	125.43	120.86	.00	125.47	.05	.15	.00	125.25
428.0	.0	428.0	.0	.0	247.4	.0	195.6	21.3	125.25
.68	.01	1.73	.01	.100	.100	.100	.000	117.25	199.47
.001931	99.	100.	101.	2	18	0	.00	56.05	255.52
*SECNO 7600.000									
7600.000	7.65	125.65	121.61	.00	125.71	.06	.23	.00	126.00
428.0	.0	428.0	.0	.0	218.6	.0	196.1	21.5	126.00
.69	.00	1.96	.00	.000	.100	.000	.000	118.00	201.06
.002765	99.	100.	101.	2	18	0	.00	52.87	253.93
*SECNO 7800.000									
7800.000	6.84	126.34	123.11	.00	126.43	.09	.72	.01	127.50
428.0	.0	428.0	.0	.0	178.0	.0	197.0	21.7	127.50
.71	.00	2.40	.00	.000	.100	.000	.000	119.50	203.47
.004822	196.	200.	204.	2	14	0	.00	48.04	251.52
*SECNO 8000.000									
8000.000	6.44	127.44	124.61	.00	127.55	.11	1.12	.01	129.00
428.0	.0	428.0	.0	.0	159.2	.0	197.8	21.9	129.00
.73	.00	2.69	.00	.000	.100	.000	.000	121.00	204.68
.006526	199.	200.	201.	2	11	0	.00	45.63	250.31
*SECNO 8200.000									
8200.000	6.31	128.81	126.12	.00	128.93	.12	1.37	.00	130.50
428.0	.0	428.0	.0	.0	153.2	.0	198.5	22.1	130.50
.75	.00	2.79	.00	.000	.100	.000	.000	122.50	205.07
.007239	193.	200.	204.	2	11	0	.00	44.84	249.92

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

*SECNO 8400.000

8400.000	6.14	130.14	127.36	.00	130.23	.09	1.30	.00	132.00
357.0	.0	357.0	.0	.0	145.8	.0	199.2	22.3	132.00
.78	.00	2.45	.00	.000	.100	.000	.000	124.00	205.58
.005763	192.	200.	203.	2	11	0	.00	43.84	249.41

*SECNO 8600.000

8600.000	5.90	131.40	128.86	.00	131.51	.11	1.27	.00	133.50
357.0	.0	357.0	.0	.0	135.5	.0	199.8	22.5	133.50
.80	.00	2.63	.00	.000	.100	.000	.000	125.50	206.29
.007039	210.	200.	190.	2	11	0	.00	42.40	248.70

*SECNO 8800.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.92

8800.000	5.15	132.15	129.49	.00	132.18	.03	.66	.01	128.00
357.0	168.5	188.5	.0	145.0	126.0	.0	200.8	22.9	135.00
.84	1.16	1.50	.00	.100	.100	.000	.000	127.00	135.93
.001915	198.	200.	202.	3	18	0	.00	110.51	246.44

THIS RUN EXECUTED 17JUL95 10:39:33

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

NO SEDIMENT IN CHANNEL.

SUMMARY PRINTOUT

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
.000	5325.00	107.25	87.00	20.25	128.50	1361.74	4.13	.20
200.000	5325.00	107.76	87.50	20.26	128.52	1362.19	4.13	.20
400.000	5325.00	108.26	88.00	20.26	128.54	1362.66	4.13	.20
600.000	5325.00	108.76	88.50	20.26	128.56	1362.90	4.13	.20
700.000	5325.00	109.01	89.00	20.01	127.99	1333.87	4.21	.20
800.000	5325.00	109.28	89.00	20.28	128.66	1365.09	4.12	.20
1000.000	5326.00	109.78	89.50	20.28	128.75	1366.98	4.12	.20
1200.000	5326.00	110.28	90.00	20.28	128.69	1365.71	4.12	.20
1400.000	5326.00	110.78	90.50	20.28	128.68	1365.47	4.12	.20
1600.000	5326.00	111.28	91.00	20.28	128.68	1365.49	4.12	.20
1800.000	5326.00	111.79	91.50	20.29	149.41	1430.66	4.04	.19
2000.000	5297.00	112.27	92.00	20.27	153.15	1409.82	4.05	.19
2200.000						1600.72	3.32	
2300.000	5297.00	112.98	92.50	20.48	223.82	1696.17	3.70	.17
2400.00						1557.81	3.	
2500.000	4333.00	113.37	93.00	20.37	151.59	1419.44	3.29	.16
2600.000	4333.00	113.52	93.50	20.02	127.12	1332.33	3.43	.16
2800.000	4333.00	113.88	94.00	19.88	126.27	1314.34	3.47	.17
3000.000	4333.00	114.25	94.50	19.75	125.47	1297.55	3.51	.17

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
3200.000	4333.00	114.64	95.00	19.64	124.78	1283.19	3.55	.17
3400.000	4333.00	115.03	95.50	19.53	127.78	1269.42	3.58	.18
3600.000	4333.00	115.44	96.00	19.44	123.59	1258.63	3.61	.18
3800.000	4333.00	115.86	96.50	19.36	123.11	1248.66	3.63	.18
4000.000	4333.00	116.30	97.00	19.30	160.14	1364.51	3.48	.17
4200.00						1269.[illegible]	[illegible]	
4300.000	4333.00	116.89	97.50	19.39	122.60	1252.22	3.62	.18
4400.000	3725.00	117.13	98.00	19.13	121.76	1221.09	3.19	.16
4600.000	3725.00	117.47	98.50	18.97	120.79	1201.63	3.23	.16
4700.000	3725.00	117.64	98.75	18.89	120.32	1192.16	3.25	.16
4800.00						1241.96		
4900.000	3725.00	118.01	99.25	18.76	142.79	1230.60	3.24	.16
5000.00						1207.28	[illegible]	
5200.000	3247.00	118.54	100.00	18.54	139.32	1162.13	3.00	.15
5400.000	3247.00	118.86	101.50	17.36	117.22	1080.30	3.16	.16
5600.000	3247.00	119.28	103.00	16.28	104.67	898.67	3.71	.20
5800.000	3247.00	119.94	104.50	15.44	99.63	812.89	4.06	.23
6000.000	3247.00	120.82	106.00	14.82	95.88	751.83	4.36	.26
6200.000	3247.00	121.90	107.50	14.40	105.04	720.55	4.58	.28
6400.000	3247.00	123.05	109.00	14.05	111.58	721.59	4.89	.28
6600.000	1557.00	124.04	110.50	13.54	111.87	676.06	2.49	.15
6700.000	1557.00	124.21	111.25	12.96	84.74	584.05	2.75	.17
6800.000	1557.00	124.44	112.00	12.44	81.60	540.62	2.95	.19
6900.000	1557.00	124.72	112.75	11.97	78.82	503.39	3.15	.20
7000.000	428.00	125.03	113.50	11.53	76.13	468.65	.92	.06
7100.000	428.00	125.06	114.25	10.81	71.85	415.93	1.03	.07
7200.000	428.00	125.11	115.00	10.11	67.62	366.76	1.17	.09
7300.000	428.00	125.18	115.75	9.43	63.54	322.18	1.35	.10
7400.000	428.00	125.28	116.50	8.78	59.67	282.38	1.52	.12

	SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
	7500.000	428.00	125.43	117.25	8.18	56.05	247.51	1.73	.14
	7600.000	428.00	125.65	118.00	7.65	52.87	218.65	1.96	.17
	7800.000	428.00	126.34	119.50	6.84	48.04	178.02	2.40	.22
	8000.000	428.00	127.44	121.00	6.44	45.63	159.22	2.69	.25
	8200.000	428.00	128.81	122.50	6.31	44.84	153.25	2.79	.27
	8400.000	357.00	130.14	124.00	6.14	43.84	145.84	2.45	.24
	8600.000	357.00	131.40	125.50	5.90	42.40	135.50	2.63	.26
*	8800.000	357.00	132.15	127.00	5.15	110.51	271.01	1.50	.14

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 8800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*            VERSION 4.0.1E             *
*                                       *
* RUN DATE  07/18/95  TIME  09:59:13    *
*                                       *
*****************************************
```

```
***********************************
*
*   U.S. ARMY CORPS OF ENGINEERS
*   HYDROLOGIC ENGINEERING CENTER
*         609 SECOND STREET
*      DAVIS, CALIFORNIA 95616
*         (916) 551-1748
*
***********************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1000 year flood
estimated using
rainfall from WDOE
technical note 3.

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   Input File Name:     P:\317\TASK12\HEC1\EAST2.IH1
  2           ID   DATE:07-18-95
  3           ID   HEC-1 1000 YEAR RUNOFF STUDY, SHERWOOD TAILINGS, WESTERN WASHINGTON
  4           ID   EAST DIVERSION CHANNEL MODIFIED TO REDUCE RIPRAP SIZE
  5           ID            CURVE NUMBER = 78
  6           ID   DESIGNED FOR 1000 YEAR PRECIPITATION, 2.61 in. IN 6 HOURS WITH SCS TYPE II DI
  7           ID   ANTECEDENT MOISTURE CONDITION III
              *DIAGRAM
  8           IT       1       0    0000     540       0       0
  9           IN       3       0       0
 10           IO       5       0
              *

 11           KK      B1  RUNOFF FROM BASIN 1
 12           KO                                     21
 13           PB    2.61
 14           PC   .0000  0.0024  0.0042  0.0062  0.0086  0.0110  0.0126  0.0148  0.0172  0.0198
 15           PC   .0230  0.0254  0.0278  0.0302  0.0326  0.0350  0.0374  0.0404  0.0432  0.0458
 16           PC   .0490  0.0514  0.0544  0.0572  0.0598  0.0630  0.0662  0.0694  0.0726  0.0760
 17           PC   .0800  0.0840  0.0880  0.0920  0.0960  0.1000  0.1048  0.1102  0.1158  0.1214
 18           PC   .1270  0.1326  0.1388  0.1452  0.1516  0.1580  0.1652  0.1730  0.1822  0.1928
 19           PC   .2040  0.2192  0.2374  0.2622  0.2998  0.3590  0.5174  0.6230  0.6802  0.7050
 20           PC   .7250  0.7450  0.7608  0.7736  0.7848  0.7960  0.8032  0.8104  0.8176  0.8246
 21           PC   .8310  0.8374  0.8438  0.8498  0.8554  0.8610  0.8658  0.8706  0.8750  0.8790
 22           PC   .8830  0.8870  0.8910  0.8950  0.8990  0.9030  0.9070  0.9104  0.9140  0.9178
 23           PC   .9210  0.9250  0.9284  0.9316  0.9348  0.9380  0.9412  0.9438  0.9466  0.9496
 24           PC   .9520  0.9552  0.9578  0.9606  0.9636  0.9660  0.9684  0.9708  0.9732  0.9756
 25           PC   .9780  0.9804  0.9828  0.9852  0.9874  0.9890  0.9914  0.9938  0.9958  0.9976
 26           PC   1.000
 27           BA   0.050
 28           LS       0      78
 29           UD    .288
              *

 30           KK    R-AB  ROUTE REACH AB
 31           KO                                     21
 32           RM       4   .0586    .399
              *

 33           KK     B2   RUNOFF FROM BASIN 2
 34           KO                                     21
 35           BA    .023
 36           LS       0      78
 37           UD   0.097

 38           KK      NB COMBINE ROUTED REACH AB WITH BASIN B2 AT NODE B
 39           KO                                     21
 40           HC       2

 41           KK    R-BC  ROUTE REACH BC
 42           KO                                     21
 43           RM       1    .018    .387
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  44          KK    B3  RUNOFF FROM BASIN 3
  45          KO                                      21
  46          BA    .162
  47          LS       0      78
  48          UD    .297

  49          KK     NC COMBINE ROUTED REACH BC WITH BASIN B3 AT NODE C
  50          KO                                      21
  51          HC       2

  52          KK    R-CD  ROUTE REACH CD
  53          KO                                      21
  54          RM       2   .0348    .431
              *

  55          KK      B4  RUNOFF FROM BASIN 4
  56          KO                                      21
  57          BA    .354
  58          LS       0      78
  59          UD   0.467
              *

  60          KK      ND  COMBINE ROUTED REACH CD WITH BASIN B4 AT NODE D
  61          KO                                      21
  62          HC       2
              *

  63          KK    R-DE   ROUTED REACH DE
  64          KO                                      21
  65          RM       2   .0343    .411
              *

  66          KK      B5  RUNOFF FROM BASIN 5
  67          KO                                      21
  68          BA   0.086
  69          LS       0      78
  70          UD   0.266
              *

  71          KK      NE  COMBINE ROUTED REACH DE WITH BASIN B5 AT NODE E
  72          KO                                      21
  73          HC       2
              *

  74          KK    R-EF   ROUTED REACH EF
  75          KO                                      21
  76          RM       4   .0658    .416
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  77          KK      B6   RUNOFF FROM BASIN 6
  78          KO                                      21
  79          BA   0.111
  80          LS       0      78
  81          UD   0.311
              *

  82          KK      NF  COMBINE ROUTED REACH EF WITH BASIN B6 AT NODE F
  83          KO                                      21
  84          HC       2
              *

  85          KK    R-FG   ROUTE REACH FG
  86          KO                                      21
  87          RM       1   .0085    .416
              *

  88          KK      B7   RUNOFF FROM BASIN 7
  89          KO                                      21
  90          BA   0.278
  91          LS       0      78
  92          UD   0.647
              *

  93          KK      NG  COMBINE ROUTED REACH FG WITH BASIN B7 AT NODE G
  94          KO                                      21
  95          HC       2
              *

  96          KK    R-GH   ROUTE REACH GH
  97          KO                                      21
  98          RM       2   .0371    .417
              *

  99          KK      B8   RUNOFF FROM BASIN 8
 100          KO                                      21
 101          BA    .020
 102          LS       0      78
 103          UD   0.112
              *

 104          KK      NH   COMBINE ROUTED REACH GH WITH BASIN B8 AT NODE H
 105          KO                                      21
 106          HC       2
              *

 107          KK    R-HI  ROUTE REACH HI
 108          KO                                      21
 109          RM       2    .030    .417
 110          ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.       (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 11          B1
              V
              V
 30        R-AB
              .
              .
 33           .          B2
              .            .
              .            .
 38          NB............
              V
              V
 41        R-BC
              .
              .
 44           .         B3
              .            .
              .            .
 49         NC ............
              V
              V
 52        R-CD
              .
              .
 55           .           B4
              .            .
              .            .
 60          ND............
              V
              V
 63        R-DE
              .
              .
 66           .           B5
              .            .
              .            .
 71          NE............
              V
              V
 74        R-EF
              .
              .
 77           .           B6
              .            .
              .            .
 82          NF............
              V
              V
 85        R-FG
              .
              .
 88           .           B7
```

```
              .          .
              .          .
 93          NG............
              V
              V
 96        R-GH
              .
              .
 99           .          B8
              .          .
              .          .
104          NH............
              V
              V
107        R-HI
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*              MAY   1991              *
*           VERSION 4.0.1E             *
*                                      *
* RUN DATE  07/18/95  TIME  09:59:13   *
*                                      *
****************************************
```

```
*********************************
*
*   U.S. ARMY CORPS OF ENGINEERS
*   HYDROLOGIC ENGINEERING CENTER
*         609 SECOND STREET
*      DAVIS, CALIFORNIA 95616
*          (916) 551-1748
*
*********************************
```

```
                    Input File Name:     P:\317\TASK12\HEC1\EAST2.IH1
                    DATE:07-18-95
                    HEC-1 1000 YEAR RUNOFF STUDY, SHERWOOD TAILINGS, WESTERN WASHINGTON
                    EAST DIVERSION CHANNEL MODIFIED TO REDUCE RIPRAP SIZE
                              CURVE NUMBER = 78
                    DESIGNED FOR 1000 YEAR PRECIPITATION, 2.61 in. IN 6 HOURS WITH SCS TYPE II DI
                    ANTECEDENT MOISTURE CONDITION III

 10 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT        HYDROGRAPH TIME DATA
                     NMIN          1  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        540  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      1   0  ENDING DATE
                   NDTIME       0859  ENDING TIME
                    ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL    0.02 HOURS
                     TOTAL TIME BASE    8.98 HOURS

          ENGLISH UNITS
               DRAINAGE AREA          SQUARE MILES
               PRECIPITATION DEPTH    INCHES
               LENGTH, ELEVATION      FEET
               FLOW                   CUBIC FEET PER SECOND
               STORAGE VOLUME         ACRE-FEET
               SURFACE AREA           ACRES
               TEMPERATURE            DEGREES FAHRENHEIT


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


            **************
            *            *
 11 KK      *        B1  *       RUNOFF FROM BASIN 1
            *            *
            **************
```

```
 12 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 30 KK    *      R-AB  *       ROUTE REACH AB
          *            *
          **************

 31 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 33 KK    *       B2   *       RUNOFF FROM BASIN 2
          *            *
          **************

 34 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
          **************
          *            *
 38 KK    *        NB  *      COMBINE ROUTED REACH AB WITH BASIN B2 AT NODE B
          *            *
          **************

 39 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 41 KK    *      R-BC  *       ROUTE REACH BC
          *            *
          **************

 42 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 44 KK    *      B3    *     RUNOFF FROM BASIN 3
          *            *
          **************

 45 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS
```

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
 49 KK        *     NC     *     COMBINE ROUTED REACH BC WITH BASIN B3 AT NODE C
              *            *
              **************

 50 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
 52 KK        *    R-CD    *      ROUTE REACH CD
              *            *
              **************

 53 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
 55 KK        *      B4    *      RUNOFF FROM BASIN 4
              *            *
              **************

 56 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
```

```
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          ***************
          *             *
 60 KK    *        ND   *       COMBINE ROUTED REACH CD WITH BASIN B4 AT NODE D
          *             *
          ***************

 61 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          ***************
          *             *
 63 KK    *      R-DE   *        ROUTED REACH DE
          *             *
          ***************

 64 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          ***************
          *             *
 66 KK    *         B5  *       RUNOFF FROM BASIN 5
          *             *
```

```
              **************

 67 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


              **************
              *            *
 71 KK        *        NE  *       COMBINE ROUTED REACH DE WITH BASIN B5 AT NODE E
              *            *
              **************

 72 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


              **************
              *            *
 74 KK        *      R-EF  *        ROUTED REACH EF
              *            *
              **************

 75 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
                **************
                *            *
 77 KK          *        B6  *        RUNOFF FROM BASIN 6
                *            *
                **************

 78 KO               OUTPUT CONTROL VARIABLES
                           IPRNT          5  PRINT CONTROL
                           IPLOT          0  PLOT CONTROL
                           QSCAL         0.  HYDROGRAPH PLOT SCALE
                           IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                            IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                           ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                           ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                          TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 82 KK          *        NF  *       COMBINE ROUTED REACH EF WITH BASIN B6 AT NODE F
                *            *
                **************

 83 KO               OUTPUT CONTROL VARIABLES
                           IPRNT          5  PRINT CONTROL
                           IPLOT          0  PLOT CONTROL
                           QSCAL         0.  HYDROGRAPH PLOT SCALE
                           IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                            IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                           ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                           ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                          TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 85 KK          *      R-FG  *        ROUTE REACH FG
                *            *
                **************

 86 KO               OUTPUT CONTROL VARIABLES
                           IPRNT          5  PRINT CONTROL
                           IPLOT          0  PLOT CONTROL
                           QSCAL         0.  HYDROGRAPH PLOT SCALE
                           IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                            IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                           ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                           ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
```

```
                    TIMINT       0.017  TIME INTERVAL IN HOURS

***** WARNING *****  POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH    R-FG.
     REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 88 KK    *        B7  *        RUNOFF FROM BASIN 7
          *            *
          **************

 89 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 93 KK    *        NG  *       COMBINE ROUTED REACH FG WITH BASIN B7 AT NODE G
          *            *
          **************

 94 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 96 KK    *      R-GH  *        ROUTE REACH GH
          *            *
          **************
```

```
 97 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

          **************
          *            *
 99 KK    *        B8  *        RUNOFF FROM BASIN 8
          *            *
          **************

100 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

          **************
          *            *
104 KK    *        NH  *        COMBINE ROUTED REACH GH WITH BASIN B8 AT NODE H
          *            *
          **************

105 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
                **************
                *            *
107 KK          *     R-HI   *        ROUTE REACH HI
                *            *
                **************

108 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B1 357	32.	3.15	5.	3.	3.	0.05		
ROUTED TO	R-AB	32.	3.20	5.	3.	3.	0.05		
HYDROGRAPH AT	B2	27.	2.92	2.	1.	1.	0.02		
2 COMBINED AT	NB 428	40.	3.17	7.	5.	5.	0.07		
ROUTED TO	R-BC	40.	3.18	7.	5.	5.	0.07		
HYDROGRAPH AT	B3	102.	3.15	15.	10.	10.	0.16		
2 COMBINED AT	NC 1557	141.	3.17	22.	15.	15.	0.23		
ROUTED TO	R-CD	141.	3.20	22.	15.	15.	0.23		
HYDROGRAPH AT	B4	164.	3.35	33.	22.	22.	0.35		
2 COMBINED AT	ND 3247	290.	3.27	54.	36.	36.	0.59		
ROUTED TO	R-DE	290.	3.30	54.	36.	36.	0.59		
HYDROGRAPH AT	B5	58.	3.12	8.	5.	5.	0.09		
2 COMBINED AT	NE 3725	332.	3.27	62.	42.	42.	0.68		
ROUTED TO	R-EF	332.	3.33	62.	42.	42.	0.68		
HYDROGRAPH AT	B6	68.	3.17	10.	7.	7.	0.11		
2 COMBINED AT	NF 4333	386.	3.32	73.	49.	49.	0.79		
ROUTED TO	R-FG	386.	3.32	73.	49.	49.	0.79		
HYDROGRAPH AT	B7	102.	3.57	26.	17.	17.	0.28		
2 COMBINED AT	NG 5297	470.	3.35	98.	66.	66.	1.06		
ROUTED TO	R-GH	469.	3.38	98.	66.	66.	1.06		
HYDROGRAPH AT	B8	22.	2.93	2.	1.	1.	0.02		
2 COMBINED AT	NH 5326	473.	3.38	100.	67.	67.	1.08		
ROUTED TO	R-HI 5325	473.	3.42	100.	67.	67.	1.08		

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*            VERSION 4.0.1E             *
*                                       *
*  RUN DATE  07/18/95  TIME  10:05:30   *
*                                       *
*****************************************
```

```
***********************************
*                                 *
*   U.S. ARMY CORPS OF ENGINEERS  *
*   HYDROLOGIC ENGINEERING CENTER *
*         609 SECOND STREET       *
*      DAVIS, CALIFORNIA 95616    *
*          (916) 551-1748         *
*                                 *
***********************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X       X     X        XX
X     X  X       X              X
XXXXXXX  XXXX    X       XXXXX  X
X     X  X       X              X
X     X  X       X     X        X
X     X  XXXXXXX   XXXXX        XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

10,000 year flood
estimated using
rainfall from WDOE
technical Note 3.

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   Input File Name:     P:\317\TASK12\HEC1\EAST2.IH1
  2           ID   DATE:07-18-95
  3           ID   HEC-1 1000 YEAR RUNOFF STUDY, SHERWOOD TAILINGS, WESTERN WASHINGTON
  4           ID   EAST DIVERSION CHANNEL MODIFIED TO REDUCE RIPRAP SIZE
  5           ID            CURVE NUMBER = 78
  6           ID   DESIGNED FOR 1000 YEAR PRECIPITATION, 2.61 in. IN 6 HOURS WITH SCS TYPE II DI
  7           ID   ANTECEDENT MOISTURE CONDITION III
              *DIAGRAM
  8           IT       1       0    0000     540       0       0
  9           IN       3       0       0
 10           IO       5       0
              *

 11           KK      B1  RUNOFF FROM BASIN 1
 12           KO                                   21
 13           PB    3.59
 14           PC   .0000  0.0024  0.0042  0.0062  0.0086  0.0110  0.0126  0.0148  0.0172  0.0198
 15           PC   .0230  0.0254  0.0278  0.0302  0.0326  0.0350  0.0374  0.0404  0.0432  0.0458
 16           PC   .0490  0.0514  0.0544  0.0572  0.0598  0.0630  0.0662  0.0694  0.0726  0.0760
 17           PC   .0800  0.0840  0.0880  0.0920  0.0960  0.1000  0.1048  0.1102  0.1158  0.1214
 18           PC   .1270  0.1326  0.1388  0.1452  0.1516  0.1580  0.1652  0.1730  0.1822  0.1928
 19           PC   .2040  0.2192  0.2374  0.2622  0.2998  0.3590  0.5174  0.6230  0.6802  0.7050
 20           PC   .7250  0.7450  0.7608  0.7736  0.7848  0.7960  0.8032  0.8104  0.8176  0.8246
 21           PC   .8310  0.8374  0.8438  0.8498  0.8554  0.8610  0.8658  0.8706  0.8750  0.8790
 22           PC   .8830  0.8870  0.8910  0.8950  0.8990  0.9030  0.9070  0.9104  0.9140  0.9178
 23           PC   .9210  0.9250  0.9284  0.9316  0.9348  0.9380  0.9412  0.9438  0.9466  0.9496
 24           PC   .9520  0.9552  0.9578  0.9606  0.9636  0.9660  0.9684  0.9708  0.9732  0.9756
 25           PC   .9780  0.9804  0.9828  0.9852  0.9874  0.9890  0.9914  0.9938  0.9958  0.9976
 26           PC   1.000
 27           BA   0.050
 28           LS       0      78
 29           UD    .288
              *

 30           KK    R-AB  ROUTE REACH AB
 31           KO                                   21
 32           RM       4   .0586    .399
              *

 33           KK     B2   RUNOFF FROM BASIN 2
 34           KO                                   21
 35           BA    .023
 36           LS       0      78
 37           UD   0.097

 38           KK      NB COMBINE ROUTED REACH AB WITH BASIN B2 AT NODE B
 39           KO                                   21
 40           HC       2

 41           KK    R-BC  ROUTE REACH BC
 42           KO                                   21
 43           RM       1    .018    .387
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  44          KK    B3  RUNOFF FROM BASIN 3
  45          KO                                      21
  46          BA   .162
  47          LS      0      78
  48          UD   .297

  49          KK     NC COMBINE ROUTED REACH BC WITH BASIN B3 AT NODE C
  50          KO                                      21
  51          HC      2

  52          KK    R-CD  ROUTE REACH CD
  53          KO                                      21
  54          RM      2   .0348    .431
              *

  55          KK      B4  RUNOFF FROM BASIN 4
  56          KO                                      21
  57          BA   .354
  58          LS      0      78
  59          UD  0.467
              *

  60          KK      ND  COMBINE ROUTED REACH CD WITH BASIN B4 AT NODE D
  61          KO                                      21
  62          HC      2
              *

  63          KK    R-DE   ROUTED REACH DE
  64          KO                                      21
  65          RM      2   .0343    .411
              *

  66          KK      B5  RUNOFF FROM BASIN 5
  67          KO                                      21
  68          BA  0.086
  69          LS      0      78
  70          UD  0.266
              *

  71          KK      NE  COMBINE ROUTED REACH DE WITH BASIN B5 AT NODE E
  72          KO                                      21
  73          HC      2
              *

  74          KK    R-EF   ROUTED REACH EF
  75          KO                                      21
  76          RM      4   .0658    .416
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 77           KK      B6   RUNOFF FROM BASIN 6
 78           KO                                      21
 79           BA   0.111
 80           LS       0      78
 81           UD   0.311
              *

 82           KK      NF  COMBINE ROUTED REACH EF WITH BASIN B6 AT NODE F
 83           KO                                      21
 84           HC       2
              *

 85           KK    R-FG   ROUTE REACH FG
 86           KO                                      21
 87           RM       1   .0085    .416
              *

 88           KK      B7   RUNOFF FROM BASIN 7
 89           KO                                      21
 90           BA   0.278
 91           LS       0      78
 92           UD   0.647
              *

 93           KK      NG  COMBINE ROUTED REACH FG WITH BASIN B7 AT NODE G
 94           KO                                      21
 95           HC       2
              *

 96           KK    R-GH   ROUTE REACH GH
 97           KO                                      21
 98           RM       2   .0371    .417
              *

 99           KK      B8   RUNOFF FROM BASIN 8
100           KO                                      21
101           BA    .020
102           LS       0      78
103           UD   0.112
              *

104           KK      NH   COMBINE ROUTED REACH GH WITH BASIN B8 AT NODE H
105           KO                                      21
106           HC       2
              *

107           KK    R-HI  ROUTE REACH HI
108           KO                                      21
109           RM       2    .030    .417
110           ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.       (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 11          B1
              V
              V
 30        R-AB
              .
              .
 33           .          B2
              .            .
              .            .
 38          NB............
              V
              V
 41        R-BC
              .
              .
 44           .         B3
              .            .
              .            .
 49         NC ............
              V
              V
 52        R-CD
              .
              .
 55           .          B4
              .            .
              .            .
 60          ND............
              V
              V
 63        R-DE
              .
              .
 66           .          B5
              .            .
              .            .
 71          NE............
              V
              V
 74        R-EF
              .
              .
 77           .          B6
              .            .
              .            .
 82          NF............
              V
              V
 85        R-FG
              .
              .
 88           .          B7
```

```
              .           .
              .           .
 93          NG............
              V
              V
 96        R-GH
              .
              .
 99           .          B8
              .           .
              .           .
104          NH............
              V
              V
107        R-HI
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*              MAY   1991              *
*           VERSION 4.0.1E             *
*                                      *
*  RUN DATE  07/18/95  TIME  10:05:30  *
*                                      *
****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*          609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616     *
*          (916) 551-1748           *
*                                   *
*************************************
```

```
                    Input File Name:     P:\317\TASK12\HEC1\EAST2.IH1
                    DATE:07-18-95
                    HEC-1 1000 YEAR RUNOFF STUDY, SHERWOOD TAILINGS, WESTERN WASHINGTON
                    EAST DIVERSION CHANNEL MODIFIED TO REDUCE RIPRAP SIZE
                              CURVE NUMBER = 78
                    DESIGNED FOR 1000 YEAR PRECIPITATION, 2.61 in. IN 6 HOURS WITH SCS TYPE II DI
                    ANTECEDENT MOISTURE CONDITION III

 10 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT        HYDROGRAPH TIME DATA
                     NMIN          1  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        540  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      1   0  ENDING DATE
                   NDTIME       0859  ENDING TIME
                   ICENT         19  CENTURY MARK

              COMPUTATION INTERVAL    0.02 HOURS
                   TOTAL TIME BASE    8.98 HOURS

         ENGLISH UNITS
              DRAINAGE AREA         SQUARE MILES
              PRECIPITATION DEPTH   INCHES
              LENGTH, ELEVATION     FEET
              FLOW                  CUBIC FEET PER SECOND
              STORAGE VOLUME        ACRE-FEET
              SURFACE AREA          ACRES
              TEMPERATURE           DEGREES FAHRENHEIT


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 11 KK    *        B1  *       RUNOFF FROM BASIN 1
          *            *
          **************
```

```
 12 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 30 KK    *      R-AB  *       ROUTE REACH AB
          *            *
          **************

 31 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 33 KK    *       B2   *       RUNOFF FROM BASIN 2
          *            *
          **************

 34 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
              **************
              *            *
 38 KK        *        NB  *      COMBINE ROUTED REACH AB WITH BASIN B2 AT NODE B
              *            *
              **************

 39 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


              **************
              *            *
 41 KK        *      R-BC  *      ROUTE REACH BC
              *            *
              **************

 42 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


              **************
              *            *
 44 KK        *      B3    *      RUNOFF FROM BASIN 3
              *            *
              **************

 45 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS
```

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
   49 KK      *       NC   *     COMBINE ROUTED REACH BC WITH BASIN B3 AT NODE C
              *            *
              **************

   50 KO          OUTPUT CONTROL VARIABLES
                        IPRNT           5  PRINT CONTROL
                        IPLOT           0  PLOT CONTROL
                        QSCAL          0.  HYDROGRAPH PLOT SCALE
                        IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                         IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                        ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                        ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                       TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
   52 KK      *      R-CD  *       ROUTE REACH CD
              *            *
              **************

   53 KO          OUTPUT CONTROL VARIABLES
                        IPRNT           5  PRINT CONTROL
                        IPLOT           0  PLOT CONTROL
                        QSCAL          0.  HYDROGRAPH PLOT SCALE
                        IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                         IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                        ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                        ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                       TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
   55 KK      *        B4  *       RUNOFF FROM BASIN 4
              *            *
              **************

   56 KO          OUTPUT CONTROL VARIABLES
                        IPRNT           5  PRINT CONTROL
                        IPLOT           0  PLOT CONTROL
                        QSCAL          0.  HYDROGRAPH PLOT SCALE
```

```
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 60 KK    *        ND  *       COMBINE ROUTED REACH CD WITH BASIN B4 AT NODE D
          *            *
          **************

 61 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 63 KK    *      R-DE  *        ROUTED REACH DE
          *            *
          **************

 64 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 66 KK    *        B5  *       RUNOFF FROM BASIN 5
          *            *
```

```
                **************

 67 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 71 KK          *        NE  *       COMBINE ROUTED REACH DE WITH BASIN B5 AT NODE E
                *            *
                **************

 72 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 74 KK          *      R-EF  *        ROUTED REACH EF
                *            *
                **************

 75 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT      0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
                **************
                *            *
 77 KK          *        B6  *        RUNOFF FROM BASIN 6
                *            *
                **************

 78 KO                OUTPUT CONTROL VARIABLES
                            IPRNT           5  PRINT CONTROL
                            IPLOT           0  PLOT CONTROL
                            QSCAL          0.  HYDROGRAPH PLOT SCALE
                            IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                             IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                            ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                            ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                           TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 82 KK          *        NF  *       COMBINE ROUTED REACH EF WITH BASIN B6 AT NODE F
                *            *
                **************

 83 KO                OUTPUT CONTROL VARIABLES
                            IPRNT           5  PRINT CONTROL
                            IPLOT           0  PLOT CONTROL
                            QSCAL          0.  HYDROGRAPH PLOT SCALE
                            IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                             IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                            ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                            ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                           TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


                **************
                *            *
 85 KK          *      R-FG  *        ROUTE REACH FG
                *            *
                **************

 86 KO                OUTPUT CONTROL VARIABLES
                            IPRNT           5  PRINT CONTROL
                            IPLOT           0  PLOT CONTROL
                            QSCAL          0.  HYDROGRAPH PLOT SCALE
                            IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                             IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                            ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                            ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
```

```
                    TIMINT       0.017  TIME INTERVAL IN HOURS

***** WARNING *****  POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH    R-FG.
     REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 88 KK    *        B7  *        RUNOFF FROM BASIN 7
          *            *
          **************

 89 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 93 KK    *        NG  *       COMBINE ROUTED REACH FG WITH BASIN B7 AT NODE G
          *            *
          **************

 94 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 96 KK    *      R-GH  *        ROUTE REACH GH
          *            *
          **************
```

```
 97 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 99 KK    *        B8  *        RUNOFF FROM BASIN 8
          *            *
          **************

100 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
104 KK    *        NH  *        COMBINE ROUTED REACH GH WITH BASIN B8 AT NODE H
          *            *
          **************

105 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                       IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2         540  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       0.017  TIME INTERVAL IN HOURS


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **
```

```
              **************
              *            *
107 KK        *     R-HI   *       ROUTE REACH HI
              *            *
              **************

108 KO            OUTPUT CONTROL VARIABLES
                        IPRNT          5  PRINT CONTROL
                        IPLOT          0  PLOT CONTROL
                        QSCAL         0.  HYDROGRAPH PLOT SCALE
                        IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                         IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                        ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                        ISAV2        540  LAST ORDINATE PUNCHED OR SAVED
                       TIMINT      0.017  TIME INTERVAL IN HOURS
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B1	62.	3.13	8.	6.	6.	0.05		
ROUTED TO	R-AB	62.	3.18	8.	6.	6.	0.05		
HYDROGRAPH AT	B2	52.	2.92	4.	3.	3.	0.02		
2 COMBINED AT	NB	76.	3.15	12.	8.	8.	0.07		
ROUTED TO	R-BC	76.	3.17	12.	8.	8.	0.07		
HYDROGRAPH AT	B3	196.	3.13	27.	18.	18.	0.16		
2 COMBINED AT	NC	272.	3.15	40.	26.	26.	0.23		
ROUTED TO	R-CD	271.	3.18	40.	26.	26.	0.23		
HYDROGRAPH AT	B4	315.	3.33	60.	40.	40.	0.35		
2 COMBINED AT	ND	559.	3.25	99.	66.	66.	0.59		
ROUTED TO	R-DE	559.	3.28	99.	66.	66.	0.59		
HYDROGRAPH AT	B5	112.	3.10	14.	10.	10.	0.09		
2 COMBINED AT	NE	641.	3.25	114.	76.	76.	0.68		
ROUTED TO	R-EF	641.	3.32	114.	76.	76.	0.68		
HYDROGRAPH AT	B6	131.	3.15	19.	12.	12.	0.11		
2 COMBINED AT	NF	746.	3.28	132.	88.	88.	0.79		
ROUTED TO	R-FG	746.	3.30	132.	88.	88.	0.79		
HYDROGRAPH AT	B7	195.	3.53	47.	31.	31.	0.28		
2 COMBINED AT	NG	907.	3.33	179.	120.	120.	1.06		
ROUTED TO	R-GH	906.	3.37	179.	120.	120.	1.06		
HYDROGRAPH AT	B8	43.	2.93	3.	2.	2.	0.02		
2 COMBINED AT	NH	913.	3.37	183.	122.	122.	1.08		
ROUTED TO	R-HI	912.	3.40	183.	122.	122.	1.08		

*** NORMAL END OF HEC-1 ***

```
*********************************************
* HEC-2 WATER SURFACE PROFILES              *
*                                           *
* Version   4.6.2;  May 1991                *
*                                           *
* RUN DATE    18JUL95    TIME    10:38:05   *
*********************************************
```

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

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

1000 year flood

assume:

1) 1.5 ft of sediment in channel

2) "n" = 0.10 to account for trees growing in channel

THIS RUN EXECUTED 18JUL95 10:38:05

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

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


T1      INPUT FILE NAME: P:\317\TASK31\SEDIMENT\HEC2\SHERSED9.IH2----SUBCRITICAL
T2      DATE:06/95   DIVERSION CHANNEL ASSUMING TREES IN CHANNEL ("n"=0.1) AND
T3      SEDIMENT IN CHANNEL 1.5 FEET DEEP.


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                0     .0025       0        0        0      90.0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     -1               -1                                     -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43       1        42       8        4        25       26       68

NC     0.1      0.1      0.1      0.1      0.3
QT       1      473
X1       0        6      200    290.99       0        0        0
X3             88.5
GR     111      170      101      200       87      242    89.93   257.78      101   290.99
GR     111   320.99


X1     200        6      200    290.99   201.61   198.48      200
X3              89
GR   111.5      170    101.5      200     87.5      242    90.43   257.78    101.5   290.99
GR   111.5   320.99


X1     400        6      200    290.99   203.24   197.46      200
X3             89.5
GR     112      170      102      200       88      242    90.93   257.78      102   290.99
GR     112   320.99


X1     600        6      200    290.99      200      200      200
X3              90
GR   112.5      170    102.5      200     88.5      242    91.43   257.78    102.5   290.99
GR   112.5   320.99
```

X1	700	6	200	290.99	100.99	99.26	100			
X3		90								
GR	112.75	170	103	200	89	242	91.93	257.78	103	290.99
GR	112.75	320.99								
X1	800	6	200	290.99	100.99	99.26	100			
X3		90.5								
GR	113	170	103	200	89	242	91.93	257.78	103	290.99
GR	113	320.99								
QT	1	473								
X1	1000	6	200	290.99	195.76	204.31	200			
X3		91								
GR	113.5	170	103.5	200	89.5	242	92.43	257.78	103.5	290.99
GR	113.5	320.99								
X1	1200	6	200	290.99	196.98	203.14	200			
X3		91.5								
GR	114	170	104	200	90	242	92.93	257.78	104	290.99
GR	114	320.99								
X1	1400	6	200	290.99	200.1	199.78	200			
X3		92								
GR	114.5	170	104.5	200	90.5	242	93.43	257.78	104.5	290.99
GR	114.5	320.99								
X1	1600	6	200	290.99	203.63	196	200			
X3		92.5								
GR	115	170	105	200	91	242	93.93	257.78	105	290.99
GR	115	320.99								
X1	1800	6	200	290.99	204.45	195.93	200			
X3		93								
GR	115.5	137	105.5	200	91.5	242	94.43	257.78	105.5	290.99
GR	115.5	320.99								
QT	1	470								
X1	2000	8	200	290.99	206.03	194.18	200			
X3		93.5								
GR	116	170	106	200	92	242	94.93	257.78	106	290.99
GR	109.5	303.99	112	333.99	116	338.99				

X1	2300	6	200	290.99	302.91	296.91	300			
X3		94								
GR	116.75	20	106.5	200	92.5	242	95.43	257.78	106.5	290.99
GR	116.75	320.99								
QT	1	386								
X1	2500	8	200	290.99	197.98	202.05	200			
X3		94.5								
GR	117.25	133.25	112	166.75	110	191.75	107	200	93	242
GR	95.93	257.78	107	290.99	117.25	320.99				
X1	2600	6	200	290.99	95.84	104.14	100			
X3		95								
GR	117.5	170	107.5	200	93.5	242	96.43	257.78	107.5	290.99
GR	117.5	320.99								
X1	2800	6	200	290.99	195.31	203.77	200			
X3		95.5								
GR	118	170	108	200	94	242	96.93	257.78	108	290.99
GR	118	320.99								
X1	3000	6	200	290.99	196.79	203.1	200			
X3		96								
GR	118.5	170	108.5	200	94.5	242	97.43	257.78	108.5	290.99
GR	118.5	320.99								
X1	3200	6	200	290.99	202.86	196.79	200			
X3		96.5								
GR	119	170	109	200	95	242	97.93	257.78	109	290.99
GR	119	320.99								
X1	3400	7	200	290.99	202.15	197.69	200			
X3		97								
GR	119.5	131	114.5	185.5	109.5	200	95.5	242	98.43	257.78
GR	109.5	290.99	119.5	320.99						
X1	3600	6	200	290.99	198.73	201.73	200			
X3		97.5								
GR	120	170	110	200	96	242	98.93	257.78	110	290.99
GR	120	320.99								

X1	3800	6	200	290.99	196.34	203.70	200			
X3		98								
GR	120.5	170	110.5	200	96.5	242	99.43	257.78	110.5	290.99
GR	120.5	320.99								
X1	4000	8	200	290.99	199.39	200.58	200			
X3		98.5								
GR	121	117	114.5	158	112	184	111	200	97	242
GR	99.93	257.78	111	290.99	121	320.99				
X1	4300	6	200	290.99	305.81	294.2	300			
X3		99								
GR	121.75	170	111.5	200	97.5	242	100.43	257.78	111.5	290.99
GR	121.75	320.99								
QT	1	332								
X1	4400	6	200	290.99	99.71	100.29	100			
X3		99.5								
GR	122	170	112	200	98	242	100.93	257.78	112	290.99
GR	122	320.99								
X1	4600	6	200	290.99	199.21	200.78	200			
X3		100								
GR	122.5	170	112.5	200	98.5	242	101.43	257.78	112.5	290.99
GR	122.5	320.99								
X1	4700	6	200	290.99	103.78	96.24	100			
X3		100.5								
GR	122.75	170	112.75	200	98.75	242	101.68	257.78	112.75	290.99
GR	122.75	320.99								
X1	4900	6	200	290.99	202.21	197.8	200			
X3		100.75								
GR	123	118	113.25	200	99.25	242	102.18	257.78	113.25	290.99
GR	125.25	320.99								
QT	1	290								
X1	5200	6	200	285.89	306.91	294	300			
X3		101.5								
GR	122	130	114	200	100	239	102.63	254.78	114	285.89
GR	124	315.89								

X1	5400	6	200	284.99	205.7	194.4	200			
X3		103								
GR	123.5	170	113.5	200	101.5	239	104.43	254.78	113.5	284.99
GR	123.5	314.99								
X1	5600	6	200	284.99	199.85	200.1	200			
X3		104.5								
GR	126	170	116	200	103	239	105.93	254.78	116	284.99
GR	126	314.99								
X1	5800	6	200	284.99	199.86	200.45	200			
X3		106								
GR	127.5	170	117.5	200	104.5	239	107.43	254.78	117.5	284.99
GR	127.5	314.99								
X1	6000	6	200	284.99	195.23	204.69	200			
X3		107.5								
GR	129	170	119	200	106	239	108.93	254.78	119	284.99
GR	129	314.99								
X1	6200	6	200	284.99	199.44	200.6	200			
X3		109								
GR	128	115	120.5	200	107.5	239	110.43	254.78	120.5	284.99
GR	130.5	314.99								
X1	6400	6	200	266.99	205.51	194.59	200			
X3		110.5								
GR	129	120	119	200	109	230	111.93	245.78	119	266.99
GR	129	296.99								
QT	1	141								
X1	6600	6	200	266.99	203.03	196.86	200			
X3		112								
GR	130	108	120.5	200	110.5	230	113.43	245.78	120.5	266.99
GR	130.5	296.99								
X1	6700	6	200	266.99	101.2	98.8	100			
X3		112.75								
GR	131.25	170	121.25	200	111.25	230	114.18	245.78	121.25	266.99
GR	131.25	296.99								

X1	6800	6	200	266.99	101.19	98.8	100			
X3		113.5								
GR	132	170	122	200	112	230	114.93	245.78	122	266.99
GR	132	296.99								
X1	6900	6	200	266.99	99.68	100.32	100			
X3		114.25								
GR	132.75	170	122.75	200	112.75	230	115.68	245.78	122.75	266.99
GR	132.75	296.99								
QT	1	40								
X1	7000	6	200	266.99	99.67	100.33	100			
X3		115								
GR	133.5	170	123.5	200	113.5	230	116.43	245.78	123.5	266.99
GR	133.5	296.99								
X1	7100	6	200	266.99	99.84	100.16	100			
X3		115.75								
GR	134.25	170	124.25	200	114.25	230	117.18	245.78	124.25	266.99
GR	134.25	296.99								
X1	7200	6	200	266.99	99.83	100.16	100			
X3		116.5								
GR	135	170	125	200	115	230	117.93	245.78	125	266.99
GR	135	296.99								
X1	7300	6	200	254.99	98.84	101.17	100			
X3		117.25								
GR	133.75	170	123.75	200	115.75	224	118.68	239.78	123.75	254.99
GR	133.75	284.99								
X1	7400	6	200	254.99	98.85	101.17	100			
X3		118								
GR	134.5	170	124.5	200	116.5	224	119.43	239.78	124.5	254.99
GR	134.5	284.99								
X1	7500	6	200	254.99	99.47	100.52	100			
X3		118.75								
GR	135.25	170	125.25	200	117.25	224	120.18	239.78	125.25	254.99
GR	135.25	284.99								

X1	7600	6	200	254.99	99.46	100.53	100			
X3		119.5								
GR	136	170	126	200	118	224	120.93	239.78	126	254.99
GR	136	284.99								
X1	7800	6	200	254.99	196.29	203.71	200			
X3		121								
GR	137.5	170	127.5	200	119.5	224	122.43	239.78	127.5	254.99
GR	137.5	284.99								
X1	8000	6	200	254.99	199.4	200.6	200			
X3		122.5								
GR	139	170	129	200	121	224	123.93	239.78	129	254.99
GR	139	284.99								
X1	8200	7	200	254.99	192.62	203.75	200			
X3		124								
GR	135	75	130.5	100	130.5	200	122.5	224	125.43	239.78
GR	130.5	254.99	140.5	284.99						
QT	1	32								
X1	8400	6	200	254.99	191.51	203.39	200			
X3		125.5								
GR	142	135	132	200	124	224	126.93	239.78	132	254.99
GR	142	284.99								
X1	8600	6	200	254.99	210.12	190.02	200			
X3		127								
GR	139	135	133.5	200	125.5	224	128.43	239.78	133.5	254.99
GR	143.5	284.99								
X1	8800	8	211	254.99	198.47	201.87	200			
X3		128.5								
GR	136	37	134	98	130	180	128	211	127	224
GR	129.93	239.78	135	254.99	145	284.99				

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300

*SECNO .000

.000	6.81	95.31	91.12	90.00	95.37	.06	.00	.00	101.00
473.0	.0	473.0	.0	.0	245.7	.0	.0	.0	101.00
.00	.00	1.92	.00	.000	.100	.000	.000	88.50	217.06
.002502	0.	0.	0.	0	14	7	.00	56.87	273.93

*SECNO 200.000

200.000	6.81	95.81	91.62	.00	95.87	.06	.50	.00	101.50
473.0	.0	473.0	.0	.0	245.8	.0	1.1	.3	101.50
.03	.00	1.92	.00	.000	.100	.000	.000	89.00	217.06
.002501	202.	200.	198.	0	18	0	.00	56.87	273.93

*SECNO 400.000

400.000	6.81	96.31	92.12	.00	96.37	.06	.50	.00	102.00
473.0	.0	473.0	.0	.0	245.8	.0	2.3	.5	102.00
.06	.00	1.92	.00	.000	.100	.000	.000	89.50	217.06
.002500	203.	200.	197.	0	18	0	.00	56.87	273.93

*SECNO 600.000

600.000	6.81	96.81	92.62	.00	96.87	.06	.50	.00	102.50
473.0	.0	473.0	.0	.0	245.8	.0	3.4	.8	102.50
.09	.00	1.92	.00	.000	.100	.000	.000	90.00	217.06
.002501	200.	200.	200.	0	18	0	.00	56.87	273.93

*SECNO 700.000

700.000	7.07	97.07	92.93	.00	97.13	.06	.26	.00	103.00
473.0	.0	473.0	.0	.0	237.0	.0	3.9	.9	103.00
.10	.00	2.00	.00	.000	.100	.000	.000	90.00	217.81
.002731	101.	100.	99.	0	18	0	.00	55.37	273.18

*SECNO 800.000

800.000	6.84	97.34	93.13	.00	97.39	.06	.26	.00	103.00
473.0	.0	473.0	.0	.0	246.9	.0	4.5	1.0	103.00
.12	.00	1.92	.00	.000	.100	.000	.000	90.50	217.00
.002470	101.	100.	99.	0	18	0	.00	56.99	273.99

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

*SECNO 1000.000

1000.000	6.83	97.83	93.62	.00	97.89	.06	.49	.00	103.50
473.0	.0	473.0	.0	.0	246.8	.0	5.6	1.3	103.50
.14	.00	1.92	.00	.000	.100	.000	.000	91.00	217.01
.002474	196.	200.	204.	2	18	0	.00	56.98	273.98

*SECNO 1200.000

1200.000	6.83	98.33	94.12	.00	98.38	.06	.50	.00	104.00
473.0	.0	473.0	.0	.0	246.5	.0	6.8	1.6	104.00
.17	.00	1.92	.00	.000	.100	.000	.000	91.50	217.02
.002482	197.	200.	203.	0	18	0	.00	56.94	273.97

*SECNO 1400.000

1400.000	6.82	98.82	94.62	.00	98.88	.06	.50	.00	104.50
473.0	.0	473.0	.0	.0	246.3	.0	7.9	1.8	104.50
.20	.00	1.92	.00	.000	.100	.000	.000	92.00	217.03
.002488	200.	200.	200.	0	18	0	.00	56.92	273.96

*SECNO 1600.000

1600.000	6.82	99.32	95.12	.00	99.38	.06	.50	.00	105.00
473.0	.0	473.0	.0	.0	246.2	.0	9.0	2.1	105.00
.23	.00	1.92	.00	.000	.100	.000	.000	92.50	217.04
.002491	204.	200.	196.	0	18	0	.00	56.91	273.95

*SECNO 1800.000

1800.000	6.82	99.82	95.62	.00	99.88	.06	.50	.00	105.50
473.0	.0	473.0	.0	.0	246.1	.0	10.2	2.3	105.50
.26	.00	1.92	.00	.000	.100	.000	.000	93.00	217.04
.002492	204.	200.	196.	0	18	0	.00	56.91	273.95

*SECNO 2000.000

2000.000	6.82	100.32	96.11	.00	100.37	.06	.50	.00	106.00
470.0	.0	470.0	.0	.0	246.0	.0	11.3	2.6	106.00
.29	.00	1.91	.00	.000	.100	.000	.000	93.50	217.05
.002463	206.	200.	194.	0	18	0	.00	56.90	273.94

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2300.000									
2300.000	7.02	101.02	96.61	.00	101.07	.05	.69	.00	106.50
470.0	.0	470.0	.0	.0	257.4	.0	13.0	3.0	106.50
.33	.00	1.83	.00	.000	.100	.000	.000	94.00	216.45
.002179	303.	300.	297.	2	18	0	.00	58.08	274.54
*SECNO 2500.000									
2500.000	6.91	101.41	96.85	.00	101.44	.04	.37	.00	107.00
386.0	.0	386.0	.0	.0	251.0	.0	14.2	3.3	107.00
.37	.00	1.54	.00	.000	.100	.000	.000	94.50	216.78
.001573	198.	200.	202.	2	17	0	.00	57.42	274.21
*SECNO 2600.000									
2600.000	6.58	101.58	97.35	.00	101.62	.04	.17	.00	107.50
386.0	.0	386.0	.0	.0	232.9	.0	14.7	3.4	107.50
.39	.00	1.66	.00	.000	.100	.000	.000	95.00	217.75
.001928	96.	100.	104.	1	17	0	.00	55.49	273.24
*SECNO 2800.000									
2800.000	6.47	101.97	97.84	.00	102.02	.04	.40	.00	108.00
386.0	.0	386.0	.0	.0	226.8	.0	15.8	3.7	108.00
.42	.00	1.70	.00	.000	.100	.000	.000	95.50	218.08
.002073	195.	200.	204.	2	22	0	.00	54.83	272.91
*SECNO 3000.000									
3000.000	6.40	102.40	98.34	.00	102.44	.05	.43	.00	108.50
386.0	.0	386.0	.0	.0	222.6	.0	16.8	3.9	108.50
.45	.00	1.73	.00	.000	.100	.000	.000	96.00	218.31
.002180	197.	200.	203.	2	22	0	.00	54.37	272.68
*SECNO 3200.000									
3200.000	6.34	102.84	98.85	.00	102.89	.05	.45	.00	109.00
386.0	.0	386.0	.0	.0	219.1	.0	17.8	4.2	109.00
.48	.00	1.76	.00	.000	.100	.000	.000	96.50	218.50
.002276	203.	200.	197.	1	18	0	.00	53.98	272.49

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 3400.000									
3400.000	6.30	103.30	99.35	.00	103.35	.05	.46	.00	109.50
386.0	.0	386.0	.0	.0	217.1	.0	18.8	4.4	109.50
.51	.00	1.78	.00	.000	.100	.000	.000	97.00	218.62
.002334	202.	200.	198.	1	18	0	.00	53.76	272.37
*SECNO 3600.000									
3600.000	6.27	103.77	99.85	.00	103.82	.05	.47	.00	110.00
386.0	.0	386.0	.0	.0	215.4	.0	19.8	4.6	110.00
.55	.00	1.79	.00	.000	.100	.000	.000	97.50	218.71
.002385	199.	200.	202.	0	18	0	.00	53.57	272.28
*SECNO 3800.000									
3800.000	6.25	104.25	100.35	.00	104.30	.05	.48	.00	110.50
386.0	.0	386.0	.0	.0	214.4	.0	20.8	4.9	110.50
.58	.00	1.80	.00	.000	.100	.000	.000	98.00	218.77
.002414	196.	200.	204.	0	18	0	.00	53.46	272.22
*SECNO 4000.000									
4000.000	6.24	104.74	100.85	.00	104.79	.05	.48	.00	111.00
386.0	.0	386.0	.0	.0	213.7	.0	21.8	5.1	111.00
.61	.00	1.81	.00	.000	.100	.000	.000	98.50	218.80
.002435	199.	200.	201.	0	18	0	.00	53.38	272.19
*SECNO 4300.000									
4300.000	6.43	105.43	101.35	.00	105.47	.05	.68	.00	111.50
386.0	.0	386.0	.0	.0	224.2	.0	23.3	5.5	111.50
.66	.00	1.72	.00	.000	.100	.000	.000	99.00	218.22
.002138	306.	300.	294.	2	18	0	.00	54.55	272.77
*SECNO 4400.000									
4400.000	6.14	105.64	101.66	.00	105.68	.04	.20	.00	112.00
332.0	.0	332.0	.0	.0	209.1	.0	23.8	5.6	112.00
.67	.00	1.59	.00	.000	.100	.000	.000	99.50	219.06
.001912	100.	100.	100.	1	17	0	.00	52.86	271.93

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 4600.000									
4600.000	6.03	106.03	102.16	.00	106.07	.04	.40	.00	112.50
332.0	.0	332.0	.0	.0	203.4	.0	24.8	5.9	112.50
.71	.00	1.63	.00	.000	.100	.000	.000	100.00	219.39
.002062	199.	200.	201.	1	22	0	.00	52.21	271.60
*SECNO 4700.000									
4700.000	5.75	106.25	102.54	.00	106.29	.04	.22	.00	112.75
332.0	.0	332.0	.0	.0	197.5	.0	25.2	6.0	112.75
.72	.00	1.68	.00	.000	.100	.000	.000	100.50	219.53
.002254	104.	100.	96.	1	17	0	.00	51.92	271.46
*SECNO 4900.000									
4900.000	5.94	106.69	102.91	.00	106.74	.04	.45	.00	113.25
332.0	.0	332.0	.0	.0	198.2	.0	26.1	6.2	113.25
.76	.00	1.68	.00	.000	.100	.000	.000	100.75	219.69
.002214	202.	200.	198.	1	18	0	.00	51.60	271.30
*SECNO 5200.000									
5200.000	5.81	107.31	103.46	.00	107.35	.04	.61	.00	114.00
290.0	.0	290.0	.0	.0	189.1	.0	27.5	6.6	114.00
.81	.00	1.53	.00	.000	.100	.000	.000	101.50	218.64
.001850	307.	300.	294.	2	17	0	.00	48.95	267.59
*SECNO 5400.000									
5400.000	4.81	107.81	104.97	.00	107.86	.06	.51	.01	113.50
290.0	.0	290.0	.0	.0	150.3	.0	28.2	6.8	113.50
.84	.00	1.93	.00	.000	.100	.000	.000	103.00	218.50
.003768	206.	200.	194.	2	17	0	.00	47.52	266.03
*SECNO 5600.000									
5600.000	4.27	108.77	106.50	.00	108.86	.09	.98	.01	116.00
290.0	.0	290.0	.0	.0	120.3	.0	28.9	7.0	116.00
.86	.00	2.41	.00	.000	.100	.000	.000	104.50	221.71
.006653	200.	200.	200.	2	18	0	.00	41.57	263.28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5800.000									
5800.000	4.16	110.16	108.00	.00	110.26	.10	1.40	.00	117.50
290.0	.0	290.0	.0	.0	115.9	.0	29.4	7.2	117.50
.89	.00	2.50	.00	.000	.100	.000	.000	106.00	222.03
.007368	200.	200.	200.	2	14	0	.00	40.94	262.96
*SECNO 6000.000									
6000.000	4.14	111.64	109.51	.00	111.74	.10	1.48	.00	119.00
290.0	.0	290.0	.0	.0	115.3	.0	29.9	7.4	119.00
.91	.00	2.51	.00	.000	.100	.000	.000	107.50	222.07
.007472	195.	200.	205.	2	11	0	.00	40.85	262.92
*SECNO 6200.000									
6200.000	4.14	113.14	111.01	.00	113.24	.10	1.50	.00	120.50
290.0	.0	290.0	.0	.0	115.1	.0	30.5	7.6	120.50
.93	.00	2.52	.00	.000	.100	.000	.000	109.00	222.09
.007510	199.	200.	201.	1	11	0	.00	40.82	262.90
*SECNO 6400.000									
6400.000	4.14	114.64	112.51	.00	114.74	.10	1.50	.00	119.00
290.0	.0	290.0	.0	.0	115.2	.0	31.0	7.8	119.00
.95	.00	2.52	.00	.000	.100	.000	.000	110.50	213.08
.007498	206.	200.	195.	0	11	0	.00	40.83	253.91
*SECNO 6600.000									
6600.000	3.73	115.73	113.34	.00	115.76	.03	1.01	.01	120.50
141.0	.0	141.0	.0	.0	98.7	.0	31.5	7.9	120.50
.99	.00	1.43	.00	.000	.100	.000	.000	112.00	214.33
.002717	203.	200.	197.	2	17	0	.00	38.34	252.66
*SECNO 6700.000									
6700.000	3.31	116.06	114.09	.00	116.10	.04	.34	.00	121.25
141.0	.0	141.0	.0	.0	83.3	.0	31.7	8.0	121.25
1.01	.00	1.69	.00	.000	.100	.000	.000	112.75	215.57
.004362	101.	100.	99.	2	22	0	.00	35.85	251.42

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


*SECNO 6800.000
 6800.000     3.06    116.56    114.84       .00    116.61       .06       .51       .00    122.00
    141.0       .0     141.0       .0       .0      74.5       .0      31.9       8.1    122.00
     1.02      .00      1.89       .00      .000      .100      .000      .000    113.50    216.32
  .005967     101.      100.      99.         2        18         0       .00     34.34    250.67


*SECNO 6900.000
 6900.000     2.95    117.20    115.59       .00    117.26       .06       .64       .00    122.75
    141.0       .0     141.0       .0       .0      70.7       .0      32.0       8.2    122.75
     1.04      .00      1.99       .00      .000      .100      .000      .000    114.25    216.66
  .006922     100.      100.      100.         2        14         0       .00     33.67    250.33


*SECNO 7000.000
 7000.000     2.61    117.61    115.63       .00    117.62       .01       .36       .01    123.50
     40.0       .0      40.0       .0       .0      59.8       .0      32.2       8.3    123.50
     1.08      .00       .67       .00      .000      .100      .000      .000    115.00    217.66
  .000895     100.      100.      100.         2        17         0       .00     31.66    249.33


*SECNO 7100.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .59

 7100.000     2.00    117.75    116.38       .00    117.76       .01       .14       .00    124.25
     40.0       .0      40.0       .0       .0      41.5       .0      32.3       8.3    124.25
     1.11      .00       .96       .00      .000      .100      .000      .000    115.75    219.50
  .002551     100.      100.      100.         2        14         0       .00     27.98    247.49


*SECNO 7200.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66

 7200.000     1.61    118.11    117.13       .00    118.14       .03       .37       .00    125.00
     40.0       .0      40.0       .0       .0      31.1       .0      32.4       8.4    125.00
     1.13      .00      1.28       .00      .000      .100      .000      .000    116.50    220.66
  .005906     100.      100.      100.         2        17         0       .00     25.66    246.33


*SECNO 7300.000
 7300.000     1.52    118.77    117.88       .00    118.80       .03       .66       .00    123.75
     40.0       .0      40.0       .0       .0      28.8       .0      32.5       8.4    123.75
     1.15      .00      1.39       .00      .000      .100      .000      .000    117.25    214.94
  .007440      99.      100.      101.         2        18         0       .00     25.11    240.05
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 7400.000									
7400.000	1.52	119.52	118.63	.00	119.55	.03	.75	.00	124.50
40.0	.0	40.0	.0	.0	28.7	.0	32.5	8.5	124.50
1.17	.00	1.39	.00	.000	.100	.000	.000	118.00	214.95
.007508	99.	100.	101.	1	18	0	.00	25.09	240.04
*SECNO 7500.000									
7500.000	1.52	120.27	119.38	.00	120.30	.03	.75	.00	125.25
40.0	.0	40.0	.0	.0	28.7	.0	32.6	8.6	125.25
1.19	.00	1.39	.00	.000	.100	.000	.000	118.75	214.95
.007520	99.	100.	101.	0	18	0	.00	25.08	240.04
*SECNO 7600.000									
7600.000	1.52	121.02	120.13	.00	121.05	.03	.75	.00	126.00
40.0	.0	40.0	.0	.0	28.8	.0	32.7	8.6	126.00
1.21	.00	1.39	.00	.000	.100	.000	.000	119.50	214.94
.007417	99.	100.	101.	0	18	0	.00	25.11	240.05
*SECNO 7800.000									
7800.000	1.52	122.52	121.63	.00	122.55	.03	1.50	.00	127.50
40.0	.0	40.0	.0	.0	28.5	.0	32.8	8.7	127.50
1.25	.00	1.40	.00	.000	.100	.000	.000	121.00	214.97
.007623	196.	200.	204.	0	18	0	.00	25.05	240.02
*SECNO 8000.000									
8000.000	1.52	124.02	123.13	.00	124.05	.03	1.50	.00	129.00
40.0	.0	40.0	.0	.0	28.9	.0	32.9	8.8	129.00
1.29	.00	1.38	.00	.000	.100	.000	.000	122.50	214.93
.007358	199.	200.	201.	0	18	0	.00	25.13	240.06
*SECNO 8200.000									
8200.000	1.51	125.51	124.63	.00	125.54	.03	1.49	.00	130.50
40.0	.0	40.0	.0	.0	28.6	.0	33.0	9.0	130.50
1.33	.00	1.40	.00	.000	.100	.000	.000	124.00	214.96
.007544	193.	200.	204.	1	18	0	.00	25.07	240.03

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 8400.000									
8400.000	1.41	126.91	126.05	.00	126.93	.02	1.39	.00	132.00
32.0	.0	32.0	.0	.0	26.1	.0	33.2	9.1	132.00
1.37	.00	1.23	.00	.000	.100	.000	.000	125.50	215.27
.006347	192.	200.	203.	2	18	0	.00	24.41	239.68
*SECNO 8600.000									
8600.000	1.33	128.33	127.55	.00	128.35	.03	1.42	.00	133.50
32.0	.0	32.0	.0	.0	24.1	.0	33.3	9.2	133.50
1.41	.00	1.33	.00	.000	.100	.000	.000	127.00	215.52
.007984	210.	200.	190.	2	18	0	.00	23.71	239.23
*SECNO 8800.000									
8800.000	.97	129.47	128.82	.00	129.48	.01	1.12	.00	128.50
32.0	11.6	20.4	.0	15.0	23.2	.0	33.4	9.4	135.00
1.48	.77	.88	.00	.100	.100	.000	.000	128.50	188.10
.004185	198.	200.	202.	3	14	0	.00	49.25	237.34

THIS RUN EXECUTED 18JUL95 10:38:08

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

SEDIMENT IN CHANNEL 1.5

SUMMARY PRINTOUT

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
.000	473.00	95.31	88.50	6.81	56.87	245.74	1.92	.16
200.000	473.00	95.81	89.00	6.81	56.87	245.77	1.92	.16
400.000	473.00	96.31	89.50	6.81	56.87	245.81	1.92	.16
600.000	473.00	96.81	90.[illegible]	6.81	56.87	245.78	1.92	.16
700.000	473.00	97.07	90.00	7.07	55.37	237.00	2.00	.17
800.000	473.00	97.34	90.50	6.84	56.99	246.92	1.92	.16
1000.000	473.00	97.83	91.00	6.83	56.98	246.77	1.92	.16
1200.000	473.00	98.33	91.50	6.83	56.94	246.45	1.92	.16
1400.000	473.00	98.82	92.00	6.82	56.92	246.26	1.92	.16
1600.000	473.00	99.32	92.50	6.82	56.91	246.15	1.92	.16
1800.000	473.00	99.82	93.00	6.82	56.91	246.11	1.92	.16
2000.000	470.00	100.32	93.50	6.82	56.90	246.03	1.91	.16
2300.000	470.00	101.02	94.00	7.02	58.08	257.38	1.83	.15
2400							1.69	
2500.000	386.00	101.41	94.50	6.91	57.42	251.04	1.54	.13
2600.000	386.00	101.58	95.00	6.58	55.49	232.88	1.66	.14
2800.000	386.00	101.97	95.50	6.47	54.83	226.77	1.70	.15
3000.000	386.00	102.40	96.00	6.40	54.37	222.62	1.73	.15

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
3200.000	386.00	102.84	96.50	6.34	53.98	219.11	1.76	.15
3400.000	386.00	103.30	97.00	6.30	53.76	217.09	1.78	.16
3600.000	386.00	103.77	97.50	6.27	53.57	215.38	1.79	.16
3800.000	386.00	104.25	98.00	6.25	53.46	214.41	1.80	.16
4000.000	386.00	104.74	98.50	6.24	53.38	213.75	1.81	.16
4300.000	386.00	105.43	99.00	6.43	54.55	224.20	1.72	.15
4400.000	332.00	105.64	99.50	6.14	52.86	209.13	1.59	.14
4600.000	332.00	106.03	100.00	6.03	52.21	203.40	1.63	.15
4700.000	332.00	106.25	100.50	5.75	51.92	197.49	1.68	.15
4900.000	332.00	106.69	100.75	5.94	51.60	198.17	1.68	.15
5200.000	290.00	107.31	101.50	5.81	48.95	189.11	1.53	.14
5400.000	290.00	107.81	103.00	4.81	47.52	150.31	1.93	.19
5600.000	290.00	108.77	104.50	4.27	41.57	120.26	2.41	.25
5800.000	290.00	110.16	106.00	4.16	40.94	115.89	2.50	.26
6000.000	290.00	111.64	107.50	4.14	40.85	115.31	2.51	.26
6200.000	290.00	113.14	109.00	4.14	40.82	115.10	2.52	.26
6400.000	290.00	114.64	110.50	4.14	40.83	115.17	2.52	.26
6600.000	141.00	115.73	112.00	3.73	38.34	98.74	1.43	.16
6700.000	141.00	116.06	112.75	3.31	35.85	83.34	1.69	.20
6800.000	141.00	116.56	113.50	3.06	34.34	74.54	1.89	.23
6900.000	141.00	117.20	114.25	2.95	33.67	70.71	1.99	.24
7000.000	40.00	117.61	115.00	2.61	31.66	59.80	.67	.09
* 7100.000	40.00	117.75	115.75	2.00	27.98	41.51	.96	.14
* 7200.000	40.00	118.11	116.50	1.61	25.66	31.13	1.28	.21
7300.000	40.00	118.77	117.25	1.52	25.11	28.78	1.39	.23
7400.000	40.00	119.52	118.00	1.52	25.09	28.70	1.39	.23

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
7500.000	40.00	120.27	118.75	1.52	25.08	28.68	1.39	.23
7600.000	40.00	121.02	119.50	1.52	25.11	28.81	1.39	.23
7800.000	40.00	122.52	121.00	1.52	25.05	28.55	1.40	.23
8000.000	40.00	124.02	122.50	1.52	25.13	28.89	1.38	.23
8200.000	40.00	125.51	124.00	1.51	25.07	28.65	1.40	.23
8400.000	32.00	126.91	125.50	1.41	24.41	26.10	1.23	.21
8600.000	32.00	128.33	127.00	1.33	23.71	24.08	1.33	.23
8800.000	32.00	129.47	128.50	.97	49.25	38.16	.88	.17

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 7100.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7200.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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*********************************************
*  HEC-2 WATER SURFACE PROFILES             *
*                                           *
*  Version   4.6.2;  May 1991               *
*                                           *
*  RUN DATE    18JUL95    TIME   10:45:46   *
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**********************************
*  U.S. ARMY CORPS OF ENGINEERS
*  HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
**********************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X    X            X    X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                 X
X     X  X        X    X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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10,000 year flood
assume:
1) 1.5' of sediment in channel
2) ("n" = 0.10) to account for trees growing in channel

THIS RUN EXECUTED 18JUL95 10:45:46

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

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


T1      INPUT FILE NAME: P:\317\TASK31\SEDIMENT\HEC2\SHERSED9.IH2----SUBCRITICAL
T2      DATE:06/95   DIVERSION CHANNEL ASSUMING TREES IN CHANNEL ("n"=0.1) AND
T3      SEDIMENT IN CHANNEL 1.5 FEET DEEP.


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                 0     .0025       0        0        0      90.0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1                -1                                    -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43        1       42        8        4       25       26       68

NC     0.1      0.1      0.1      0.1      0.3
QT       1      912
X1       0        6      200   290.99        0        0        0
X3             88.5
GR     111      170      101      200       87      242    89.93   257.78      101   290.99
GR     111   320.99


X1     200        6      200   290.99   201.61   198.48      200
X3              89
GR   111.5      170    101.5      200     87.5      242    90.43   257.78    101.5   290.99
GR   111.5   320.99


X1     400        6      200   290.99   203.24   197.46      200
X3            89.5
GR     112      170      102      200       88      242    90.93   257.78      102   290.99
GR     112   320.99


X1     600        6      200   290.99      200      200      200
X3              90
GR   112.5      170    102.5      200     88.5      242    91.43   257.78    102.5   290.99
GR   112.5   320.99
```

X1	700	6	200	290.99	100.99	99.26	100			
X3		90								
GR	112.75	170	103	200	89	242	91.93	257.78	103	290.99
GR	112.75	320.99								
X1	800	6	200	290.99	100.99	99.26	100			
X3		90.5								
GR	113	170	103	200	89	242	91.93	257.78	103	290.99
GR	113	320.99								
QT	1	913								
X1	1000	6	200	290.99	195.76	204.31	200			
X3		91								
GR	113.5	170	103.5	200	89.5	242	92.43	257.78	103.5	290.99
GR	113.5	320.99								
X1	1200	6	200	290.99	196.98	203.14	200			
X3		91.5								
GR	114	170	104	200	90	242	92.93	257.78	104	290.99
GR	114	320.99								
X1	1400	6	200	290.99	200.1	199.78	200			
X3		92								
GR	114.5	170	104.5	200	90.5	242	93.43	257.78	104.5	290.99
GR	114.5	320.99								
X1	1600	6	200	290.99	203.63	196	200			
X3		92.5								
GR	115	170	105	200	91	242	93.93	257.78	105	290.99
GR	115	320.99								
X1	1800	6	200	290.99	204.45	195.93	200			
X3		93								
GR	115.5	137	105.5	200	91.5	242	94.43	257.78	105.5	290.99
GR	115.5	320.99								
QT	1	907								
X1	2000	8	200	290.99	206.03	194.18	200			
X3		93.5								
GR	116	170	106	200	92	242	94.93	257.78	106	290.99
GR	109.5	303.99	112	333.99	116	338.99				

X1	2300	6	200	290.99	302.91	296.91	300			
X3		94								
GR	116.75	20	106.5	200	92.5	242	95.43	257.78	106.5	290.99
GR	116.75	320.99								
QT	1	746								
X1	2500	8	200	290.99	197.98	202.05	200			
X3		94.5								
GR	117.25	133.25	112	166.75	110	191.75	107	200	93	242
GR	95.93	257.78	107	290.99	117.25	320.99				
X1	2600	6	200	290.99	95.84	104.14	100			
X3		95								
GR	117.5	170	107.5	200	93.5	242	96.43	257.78	107.5	290.99
GR	117.5	320.99								
X1	2800	6	200	290.99	195.31	203.77	200			
X3		95.5								
GR	118	170	108	200	94	242	96.93	257.78	108	290.99
GR	118	320.99								
X1	3000	6	200	290.99	196.79	203.1	200			
X3		96								
GR	118.5	170	108.5	200	94.5	242	97.43	257.78	108.5	290.99
GR	118.5	320.99								
X1	3200	6	200	290.99	202.86	196.79	200			
X3		96.5								
GR	119	170	109	200	95	242	97.93	257.78	109	290.99
GR	119	320.99								
X1	3400	7	200	290.99	202.15	197.69	200			
X3		97								
GR	119.5	131	114.5	185.5	109.5	200	95.5	242	98.43	257.78
GR	109.5	290.99	119.5	320.99						
X1	3600	6	200	290.99	198.73	201.73	200			
X3		97.5								
GR	120	170	110	200	96	242	98.93	257.78	110	290.99
GR	120	320.99								

X1	3800	6	200	290.99	196.34	203.70	200			
X3		98								
GR	120.5	170	110.5	200	96.5	242	99.43	257.78	110.5	290.99
GR	120.5	320.99								
X1	4000	8	200	290.99	199.39	200.58	200			
X3		98.5								
GR	121	117	114.5	158	112	184	111	200	97	242
GR	99.93	257.78	111	290.99	121	320.99				
X1	4300	6	200	290.99	305.81	294.2	300			
X3		99								
GR	121.75	170	111.5	200	97.5	242	100.43	257.78	111.5	290.99
GR	121.75	320.99								
QT	1	641								
X1	4400	6	200	290.99	99.71	100.29	100			
X3		99.5								
GR	122	170	112	200	98	242	100.93	257.78	112	290.99
GR	122	320.99								
X1	4600	6	200	290.99	199.21	200.78	200			
X3		100								
GR	122.5	170	112.5	200	98.5	242	101.43	257.78	112.5	290.99
GR	122.5	320.99								
X1	4700	6	200	290.99	103.78	96.24	100			
X3		100.5								
GR	122.75	170	112.75	200	98.75	242	101.68	257.78	112.75	290.99
GR	122.75	320.99								
X1	4900	6	200	290.99	202.21	197.8	200			
X3		100.75								
GR	123	118	113.25	200	99.25	242	102.18	257.78	113.25	290.99
GR	125.25	320.99								
QT	1	559								
X1	5200	6	200	285.89	306.91	294	300			
X3		101.5								
GR	122	130	114	200	100	239	102.63	254.78	114	285.89
GR	124	315.89								

X1	5400	6	200	284.99	205.7	194.4	200			
X3		103								
GR	123.5	170	113.5	200	101.5	239	104.43	254.78	113.5	284.99
GR	123.5	314.99								
X1	5600	6	200	284.99	199.85	200.1	200			
X3		104.5								
GR	126	170	116	200	103	239	105.93	254.78	116	284.99
GR	126	314.99								
X1	5800	6	200	284.99	199.86	200.45	200			
X3		106								
GR	127.5	170	117.5	200	104.5	239	107.43	254.78	117.5	284.99
GR	127.5	314.99								
X1	6000	6	200	284.99	195.23	204.69	200			
X3		107.5								
GR	129	170	119	200	106	239	108.93	254.78	119	284.99
GR	129	314.99								
X1	6200	6	200	284.99	199.44	200.6	200			
X3		109								
GR	128	115	120.5	200	107.5	239	110.43	254.78	120.5	284.99
GR	130.5	314.99								
X1	6400	6	200	266.99	205.51	194.59	200			
X3		110.5								
GR	129	120	119	200	109	230	111.93	245.78	119	266.99
GR	129	296.99								
QT	1	272								
X1	6600	6	200	266.99	203.03	196.86	200			
X3		112								
GR	130	108	120.5	200	110.5	230	113.43	245.78	120.5	266.99
GR	130.5	296.99								
X1	6700	6	200	266.99	101.2	98.8	100			
X3		112.75								
GR	131.25	170	121.25	200	111.25	230	114.18	245.78	121.25	266.99
GR	131.25	296.99								

X1	6800	6	200	266.99	101.19	98.8	100			
X3		113.5								
GR	132	170	122	200	112	230	114.93	245.78	122	266.99
GR	132	296.99								
X1	6900	6	200	266.99	99.68	100.32	100			
X3		114.25								
GR	132.75	170	122.75	200	112.75	230	115.68	245.78	122.75	266.99
GR	132.75	296.99								
QT	1	76								
X1	7000	6	200	266.99	99.67	100.33	100			
X3		115								
GR	133.5	170	123.5	200	113.5	230	116.43	245.78	123.5	266.99
GR	133.5	296.99								
X1	7100	6	200	266.99	99.84	100.16	100			
X3		115.75								
GR	134.25	170	124.25	200	114.25	230	117.18	245.78	124.25	266.99
GR	134.25	296.99								
X1	7200	6	200	266.99	99.83	100.16	100			
X3		116.5								
GR	135	170	125	200	115	230	117.93	245.78	125	266.99
GR	135	296.99								
X1	7300	6	200	254.99	98.84	101.17	100			
X3		117.25								
GR	133.75	170	123.75	200	115.75	224	118.68	239.78	123.75	254.99
GR	133.75	284.99								
X1	7400	6	200	254.99	98.85	101.17	100			
X3		118								
GR	134.5	170	124.5	200	116.5	224	119.43	239.78	124.5	254.99
GR	134.5	284.99								
X1	7500	6	200	254.99	99.47	100.52	100			
X3		118.75								
GR	135.25	170	125.25	200	117.25	224	120.18	239.78	125.25	254.99
GR	135.25	284.99								

X1	7600	6	200	254.99	99.46	100.53	100			
X3		119.5								
GR	136	170	126	200	118	224	120.93	239.78	126	254.99
GR	136	284.99								
X1	7800	6	200	254.99	196.29	203.71	200			
X3		121								
GR	137.5	170	127.5	200	119.5	224	122.43	239.78	127.5	254.99
GR	137.5	284.99								
X1	8000	6	200	254.99	199.4	200.6	200			
X3		122.5								
GR	139	170	129	200	121	224	123.93	239.78	129	254.99
GR	139	284.99								
X1	8200	7	200	254.99	192.62	203.75	200			
X3		124								
GR	135	75	130.5	100	130.5	200	122.5	224	125.43	239.78
GR	130.5	254.99	140.5	284.99						
QT	1	62								
X1	8400	6	200	254.99	191.51	203.39	200			
X3		125.5								
GR	142	135	132	200	124	224	126.93	239.78	132	254.99
GR	142	284.99								
X1	8600	6	200	254.99	210.12	190.02	200			
X3		127								
GR	139	135	133.5	200	125.5	224	128.43	239.78	133.5	254.99
GR	143.5	284.99								
X1	8800	8	211	254.99	198.47	201.87	200			
X3		128.5								
GR	136	37	134	98	130	180	128	211	127	224
GR	129.93	239.78	135	254.99	145	284.99				

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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300

*SECNO .000

.000	9.21	97.71	92.25	90.00	97.79	.08	.00	.00	101.00
912.0	.0	912.0	.0	.0	399.0	.0	.0	.0	101.00
.00	.00	2.29	.00	.000	.100	.000	.000	88.50	209.88
.002508	0.	0.	0.	0	17	8	.00	71.22	281.11

*SECNO 200.000

200.000	9.21	98.21	92.74	.00	98.29	.08	.50	.00	101.50
912.0	.0	912.0	.0	.0	399.1	.0	1.8	.3	101.50
.02	.00	2.29	.00	.000	.100	.000	.000	89.00	209.88
.002506	202.	200.	198.	0	18	0	.00	71.23	281.11

*SECNO 400.000

400.000	9.21	98.71	93.24	.00	98.79	.08	.50	.00	102.00
912.0	.0	912.0	.0	.0	399.2	.0	3.7	.7	102.00
.05	.00	2.28	.00	.000	.100	.000	.000	89.50	209.87
.002504	203.	200.	197.	0	18	0	.00	71.24	281.12

*SECNO 600.000

600.000	9.21	99.21	93.74	.00	99.29	.08	.50	.00	102.50
912.0	.0	912.0	.0	.0	399.2	.0	5.5	1.0	102.50
.07	.00	2.28	.00	.000	.100	.000	.000	90.00	209.87
.002504	200.	200.	200.	0	18	0	.00	71.24	281.12

*SECNO 700.000

700.000	9.47	99.47	94.08	.00	99.55	.09	.26	.00	103.00
912.0	.0	912.0	.0	.0	386.8	.0	6.4	1.1	103.00
.08	.00	2.36	.00	.000	.100	.000	.000	90.00	210.62
.002708	101.	100.	99.	0	14	0	.00	69.74	280.37

*SECNO 800.000

800.000	9.23	99.73	94.24	.00	99.81	.08	.26	.00	103.00
912.0	.0	912.0	.0	.0	400.4	.0	7.3	1.3	103.00
.10	.00	2.28	.00	.000	.100	.000	.000	90.50	209.82
.002483	101.	100.	99.	0	18	0	.00	71.35	281.17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1000.000									
1000.000	9.23	100.23	94.74	.00	100.31	.08	.50	.00	103.50
913.0	.0	913.0	.0	.0	400.5	.0	9.1	1.6	103.50
.12	.00	2.28	.00	.000	.100	.000	.000	91.00	209.82
.002487	196.	200.	204.	2	18	0	.00	71.35	281.17
*SECNO 1200.000									
1200.000	9.23	100.73	95.24	.00	100.81	.08	.50	.00	104.00
913.0	.0	913.0	.0	.0	400.3	.0	11.0	2.0	104.00
.15	.00	2.28	.00	.000	.100	.000	.000	91.50	209.83
.002490	197.	200.	203.	0	18	0	.00	71.34	281.16
*SECNO 1400.000									
1400.000	9.22	101.22	95.74	.00	101.30	.08	.50	.00	104.50
913.0	.0	913.0	.0	.0	400.2	.0	12.8	2.3	104.50
.17	.00	2.28	.00	.000	.100	.000	.000	92.00	209.83
.002492	200.	200.	200.	0	18	0	.00	71.33	281.16
*SECNO 1600.000									
1600.000	9.22	101.72	96.24	.00	101.80	.08	.50	.00	105.00
913.0	.0	913.0	.0	.0	400.1	.0	14.7	2.6	105.00
.19	.00	2.28	.00	.000	.100	.000	.000	92.50	209.84
.002494	204.	200.	196.	0	18	0	.00	71.32	281.15
*SECNO 1800.000									
1800.000	9.22	102.22	96.74	.00	102.30	.08	.50	.00	105.50
913.0	.0	913.0	.0	.0	400.1	.0	16.5	2.9	105.50
.22	.00	2.28	.00	.000	.100	.000	.000	93.00	209.84
.002495	204.	200.	196.	0	18	0	.00	71.31	281.15
*SECNO 2000.000									
2000.000	9.22	102.72	97.23	.00	102.80	.08	.50	.00	106.00
907.0	.0	907.0	.0	.0	400.0	.0	18.3	3.3	106.00
.24	.00	2.27	.00	.000	.100	.000	.000	93.50	209.84
.002463	206.	200.	194.	0	18	0	.00	71.31	281.15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2300.000									
2300.000	9.43	103.43	97.73	.00	103.50	.07	.70	.00	106.50
907.0	.0	907.0	.0	.0	414.9	.0	21.1	3.8	106.50
.28	.00	2.19	.00	.000	.100	.000	.000	94.00	209.22
.002232	303.	300.	297.	2	18	0	.00	72.55	281.77
*SECNO 2500.000									
2500.000	9.33	103.83	97.86	.00	103.88	.05	.38	.00	107.00
746.0	.0	746.0	.0	.0	407.9	.0	23.0	4.1	107.00
.31	.00	1.83	.00	.000	.100	.000	.000	94.50	209.51
.001580	198.	200.	202.	2	22	0	.00	71.97	281.48
*SECNO 2600.000									
2600.000	9.00	104.00	98.36	.00	104.06	.06	.17	.00	107.50
746.0	.0	746.0	.0	.0	384.3	.0	23.9	4.3	107.50
.33	.00	1.94	.00	.000	.100	.000	.000	95.00	210.51
.001857	96.	100.	104.	2	22	0	.00	69.97	280.48
*SECNO 2800.000									
2800.000	8.88	104.38	98.86	.00	104.44	.06	.38	.00	108.00
746.0	.0	746.0	.0	.0	375.9	.0	25.7	4.6	108.00
.35	.00	1.98	.00	.000	.100	.000	.000	95.50	210.87
.001970	195.	200.	204.	2	18	0	.00	69.25	280.12
*SECNO 3000.000									
3000.000	8.78	104.78	99.36	.00	104.84	.06	.40	.00	108.50
746.0	.0	746.0	.0	.0	368.6	.0	27.4	4.9	108.50
.38	.00	2.02	.00	.000	.100	.000	.000	96.00	211.19
.002078	197.	200.	203.	1	18	0	.00	68.61	279.80
*SECNO 3200.000									
3200.000	8.70	105.20	99.86	.00	105.27	.07	.42	.00	109.00
746.0	.0	746.0	.0	.0	363.3	.0	29.1	5.2	109.00
.41	.00	2.05	.00	.000	.100	.000	.000	96.50	211.42
.002159	203.	200.	197.	1	18	0	.00	68.15	279.57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 3400.000									
3400.000	8.64	105.64	100.36	.00	105.71	.07	.44	.00	109.50
746.0	.0	746.0	.0	.0	359.2	.0	30.7	5.5	109.50
.44	.00	2.08	.00	.000	.100	.000	.000	97.00	211.60
.002227	202.	200.	198.	1	18	0	.00	67.79	279.39
*SECNO 3600.000									
3600.000	8.59	106.09	100.86	.00	106.16	.07	.45	.00	110.00
746.0	.0	746.0	.0	.0	355.9	.0	32.4	5.8	110.00
.46	.00	2.10	.00	.000	.100	.000	.000	97.50	211.75
.002283	199.	200.	202.	1	18	0	.00	67.50	279.24
*SECNO 3800.000									
3800.000	8.55	106.55	101.36	.00	106.62	.07	.46	.00	110.50
746.0	.0	746.0	.0	.0	353.0	.0	34.0	6.1	110.50
.49	.00	2.11	.00	.000	.100	.000	.000	98.00	211.88
.002335	196.	200.	204.	0	18	0	.00	67.24	279.11
*SECNO 4000.000									
4000.000	8.52	107.02	101.86	.00	107.09	.07	.47	.00	111.00
746.0	.0	746.0	.0	.0	351.1	.0	35.6	6.5	111.00
.51	.00	2.12	.00	.000	.100	.000	.000	98.50	211.96
.002369	199.	200.	201.	0	18	0	.00	67.07	279.03
*SECNO 4300.000									
4300.000	8.70	107.70	102.36	.00	107.77	.07	.68	.00	111.50
746.0	.0	746.0	.0	.0	363.9	.0	38.1	6.9	111.50
.55	.00	2.05	.00	.000	.100	.000	.000	99.00	211.39
.002150	306.	300.	294.	2	18	0	.00	68.21	279.60
*SECNO 4400.000									
4400.000	8.42	107.92	102.59	.00	107.97	.05	.20	.00	112.00
641.0	.0	641.0	.0	.0	345.0	.0	38.9	7.1	112.00
.57	.00	1.86	.00	.000	.100	.000	.000	99.50	212.23
.001833	100.	100.	100.	1	22	0	.00	66.52	278.76

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

*SECNO 4600.000

4600.000	8.29	108.29	103.10	.00	108.35	.06	.38	.00	112.50
641.0	.0	641.0	.0	.0	336.5	.0	40.5	7.4	112.50
.60	.00	1.91	.00	.000	.100	.000	.000	100.00	212.62
.001962	199.	200.	201.	2	18	0	.00	65.74	278.37

*SECNO 4700.000

4700.000	7.99	108.49	103.45	.00	108.55	.06	.20	.00	112.75
641.0	.0	641.0	.0	.0	329.5	.0	41.2	7.5	112.75
.61	.00	1.95	.00	.000	.100	.000	.000	100.50	212.79
.002088	104.	100.	96.	1	22	0	.00	65.42	278.20

*SECNO 4900.000

4900.000	8.16	108.91	103.84	.00	108.97	.06	.42	.00	113.25
641.0	.0	641.0	.0	.0	327.5	.0	42.7	7.8	113.25
.64	.00	1.96	.00	.000	.100	.000	.000	100.75	213.03
.002110	202.	200.	198.	1	18	0	.00	64.92	277.96

*SECNO 5200.000

5200.000	8.01	109.51	104.33	.00	109.56	.05	.59	.00	114.00
559.0	.0	559.0	.0	.0	310.0	.0	44.9	8.3	114.00
.69	.00	1.80	.00	.000	.100	.000	.000	101.50	212.51
.001789	307.	300.	294.	2	22	0	.00	61.08	273.60

*SECNO 5400.000

5400.000	6.95	109.95	105.82	.00	110.01	.07	.45	.01	113.50
559.0	.0	559.0	.0	.0	267.0	.0	46.2	8.5	113.50
.71	.00	2.09	.00	.000	.100	.000	.000	103.00	211.55
.002929	206.	200.	194.	2	22	0	.00	61.60	273.15

*SECNO 5600.000

5600.000	6.19	110.69	107.37	.00	110.80	.11	.77	.01	116.00
559.0	.0	559.0	.0	.0	211.3	.0	47.3	8.8	116.00
.74	.00	2.65	.00	.000	.100	.000	.000	104.50	215.94
.005270	200.	200.	200.	2	18	0	.00	53.11	269.05

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5800.000									
5800.000	5.85	111.85	108.87	.00	111.98	.13	1.18	.01	117.50
559.0	.0	559.0	.0	.0	193.9	.0	48.3	9.0	117.50
.75	.00	2.88	.00	.000	.100	.000	.000	106.00	216.94
.006663	200.	200.	200.	2	14	0	.00	51.10	268.05
*SECNO 6000.000									
6000.000	5.74	113.24	110.36	.00	113.37	.14	1.39	.00	119.00
559.0	.0	559.0	.0	.0	188.0	.0	49.2	9.3	119.00
.77	.00	2.97	.00	.000	.100	.000	.000	107.50	217.29
.007246	195.	200.	205.	2	8	0	.00	50.41	267.70
*SECNO 6200.000									
6200.000	5.70	114.70	111.88	.00	114.84	.14	1.47	.00	120.50
559.0	.0	559.0	.0	.0	186.3	.0	50.0	9.5	120.50
.79	.00	3.00	.00	.000	.100	.000	.000	109.00	217.39
.007429	199.	200.	201.	2	8	0	.00	50.20	267.60
*SECNO 6400.000									
6400.000	5.70	116.20	113.38	.00	116.34	.14	1.49	.00	119.00
559.0	.0	559.0	.0	.0	185.5	.0	50.9	9.7	119.00
.81	.00	3.01	.00	.000	.100	.000	.000	110.50	208.44
.007513	206.	200.	195.	1	8	0	.00	50.11	258.55
*SECNO 6600.000									
6600.000	5.27	117.27	113.94	.00	117.31	.04	.97	.01	120.50
272.0	.0	272.0	.0	.0	165.1	.0	51.7	10.0	120.50
.84	.00	1.65	.00	.000	.100	.000	.000	112.00	209.69
.002447	203.	200.	197.	2	17	0	.00	47.60	257.30
*SECNO 6700.000									
6700.000	4.81	117.56	114.69	.00	117.61	.06	.29	.00	121.25
272.0	.0	272.0	.0	.0	143.7	.0	52.0	10.1	121.25
.86	.00	1.89	.00	.000	.100	.000	.000	112.75	211.08
.003583	101.	100.	99.	2	18	0	.00	44.82	255.91

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

*SECNO 6800.000

6800.000	4.46	117.96	115.43	.00	118.03	.07	.41	.00	122.00
272.0	.0	272.0	.0	.0	128.6	.0	52.3	10.2	122.00
.87	.00	2.12	.00	.000	.100	.000	.000	113.50	212.12
.004863	101.	100.	99.	2	18	0	.00	42.76	254.87

*SECNO 6900.000

6900.000	4.24	118.49	116.19	.00	118.57	.08	.54	.00	122.75
272.0	.0	272.0	.0	.0	119.3	.0	52.6	10.3	122.75
.88	.00	2.28	.00	.000	.100	.000	.000	114.25	212.78
.005979	100.	100.	100.	2	14	0	.00	41.44	254.21

*SECNO 7000.000

7000.000	3.86	118.86	115.93	.00	118.87	.01	.29	.01	123.50
76.0	.0	76.0	.0	.0	104.1	.0	52.9	10.4	123.50
.92	.00	.73	.00	.000	.100	.000	.000	115.00	213.91
.000681	100.	100.	100.	2	17	0	.00	39.17	253.08

*SECNO 7100.000

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

7100.000	3.21	118.96	116.68	.00	118.97	.01	.10	.00	124.25
76.0	.0	76.0	.0	.0	79.6	.0	53.1	10.4	124.25
.95	.00	.95	.00	.000	.100	.000	.000	115.75	215.88
.001440	100.	100.	100.	2	14	0	.00	35.22	251.11

*SECNO 7200.000

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

7200.000	2.65	119.15	117.43	.00	119.17	.02	.20	.00	125.00
76.0	.0	76.0	.0	.0	61.0	.0	53.2	10.5	125.00
.97	.00	1.25	.00	.000	.100	.000	.000	116.50	217.55
.003052	100.	100.	100.	2	14	0	.00	31.89	249.44

*SECNO 7300.000

7300.000	2.29	119.54	118.18	.00	119.58	.04	.40	.00	123.75
76.0	.0	76.0	.0	.0	49.9	.0	53.4	10.6	123.75
.99	.00	1.52	.00	.000	.100	.000	.000	117.25	212.63
.005416	99.	100.	101.	2	22	0	.00	29.73	242.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 7400.000									
7400.000	2.15	120.15	118.93	.00	120.19	.04	.61	.00	124.50
76.0	.0	76.0	.0	.0	45.7	.0	53.5	10.7	124.50
1.01	.00	1.66	.00	.000	.100	.000	.000	118.00	213.06
.006974	99.	100.	101.	2	18	0	.00	28.87	241.93
*SECNO 7500.000									
7500.000	2.11	120.86	119.68	.00	120.91	.04	.72	.00	125.25
76.0	.0	76.0	.0	.0	44.8	.0	53.6	10.7	125.25
1.02	.00	1.70	.00	.000	.100	.000	.000	118.75	213.16
.007397	99.	100.	101.	2	14	0	.00	28.68	241.83
*SECNO 7600.000									
7600.000	2.11	121.61	120.43	.00	121.66	.05	.75	.00	126.00
76.0	.0	76.0	.0	.0	44.5	.0	53.7	10.8	126.00
1.04	.00	1.71	.00	.000	.100	.000	.000	119.50	213.19
.007540	99.	100.	101.	1	14	0	.00	28.61	241.80
*SECNO 7800.000									
7800.000	2.11	123.11	121.93	.00	123.15	.04	1.50	.00	127.50
76.0	.0	76.0	.0	.0	44.7	.0	53.9	10.9	127.50
1.07	.00	1.70	.00	.000	.100	.000	.000	121.00	213.17
.007436	196.	200.	204.	1	14	0	.00	28.66	241.82
*SECNO 8000.000									
8000.000	2.10	124.60	123.43	.00	124.65	.05	1.49	.00	129.00
76.0	.0	76.0	.0	.0	44.6	.0	54.1	11.1	129.00
1.11	.00	1.71	.00	.000	.100	.000	.000	122.50	213.18
.007502	199.	200.	201.	0	14	0	.00	28.63	241.81
*SECNO 8200.000									
8200.000	2.10	126.10	124.93	.00	126.15	.05	1.50	.00	130.50
76.0	.0	76.0	.0	.0	44.6	.0	54.3	11.2	130.50
1.14	.00	1.70	.00	.000	.100	.000	.000	124.00	213.17
.007478	193.	200.	204.	1	14	0	.00	28.64	241.82

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

*SECNO 8400.000

8400.000	1.99	127.49	126.32	.00	127.52	.04	1.38	.00	132.00
62.0	.0	62.0	.0	.0	41.2	.0	54.5	11.3	132.00
1.18	.00	1.50	.00	.000	.100	.000	.000	125.50	213.53
.006247	192.	200.	203.	2	18	0	.00	27.92	241.46

*SECNO 8600.000

8600.000	1.87	128.87	127.82	.00	128.92	.04	1.39	.00	133.50
62.0	.0	62.0	.0	.0	38.2	.0	54.7	11.4	133.50
1.21	.00	1.62	.00	.000	.100	.000	.000	127.00	213.86
.007773	210.	200.	190.	1	18	0	.00	27.27	241.13

*SECNO 8800.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

8800.000	1.44	129.94	128.99	.00	129.95	.02	1.04	.00	128.50
62.0	24.5	37.5	.0	27.2	35.9	.0	54.9	11.6	135.00
1.27	.90	1.04	.00	.100	.100	.000	.000	128.50	180.95
.003707	198.	200.	202.	3	14	0	.00	58.86	239.81

THIS RUN EXECUTED 18JUL95 10:45:49

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

SEDIMENT IN CHANNEL 1.5

SUMMARY PRINTOUT

SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
.000	912.00	97.71	88.50	9.21	71.22	398.97	2.29	.17
200.000	912.00	98.21	89.00	9.21	71.23	399.08	2.29	.17
400.000	912.00	98.71	89.50	9.21	71.24	399.20	2.28	.17
600.000	912.00	99.21	90.00	9.21	71.24	399.20	2.28	.17
~~700.000~~	~~912.00~~	~~99.47~~	~~90.00~~	~~9.47~~	~~69.74~~	~~386.85~~	~~2.36~~	~~.18~~
800.000	912.00	99.73	90.50	9.23	71.35	400.43	2.28	.17
1000.000	913.00	100.23	91.00	9.23	71.35	400.54	2.28	.17
1200.000	913.00	100.73	91.50	9.23	71.34	400.33	2.28	.17
1400.000	913.00	101.22	92.00	9.22	71.33	400.20	2.28	.17
1600.000	913.00	101.72	92.50	9.22	71.32	400.10	2.28	.17
1800.000	913.00	102.22	93.00	9.22	71.31	400.07	2.28	.17
2000.000	907.00	102.72	93.50	9.22	71.31	400.00	2.27	.17
2200		103.19					2.22	
~~2300.000~~	~~907.00~~	~~103.43~~	~~94.00~~	~~9.43~~	~~72.55~~	~~414.89~~	~~2.19~~	~~.16~~
2400		103.62		9.38			1.91	
~~2500.000~~	~~746.00~~	~~103.83~~	~~94.50~~	~~9.33~~	~~71.97~~	~~407.93~~	~~1.83~~	~~.14~~
2600.000	746.00	104.00	95.00	9.00	69.97	384.26	1.94	.15
2800.000	746.00	104.38	95.50	8.88	69.25	375.94	1.98	.15
3000.000	746.00	104.78	96.00	8.78	68.61	368.57	2.02	.15

	SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
	3200.000	746.00	105.20	96.50	8.70	68.15	363.34	2.05	.16
	3400.000	746.00	105.64	97.00	8.64	67.79	359.22	2.08	.16
	3600.000	746.00	106.09	97.50	8.59	67.50	355.93	2.10	.16
	3800.000	746.00	106.55	98.00	8.55	67.24	352.99	2.11	.16
	4000.000	746.00	107.02	98.50	8.52	67.07	351.08	2.12	.16
	4200		107.47		8.34			2.07	
	4300.000	746.00	107.70	99.00	8.70	68.21	363.94	2.05	.16
	4400.000	641.00	107.92	99.50	8.42	66.52	345.01	1.86	.14
	4600.000	641.00	108.29	100.00	8.29	65.74	336.45	1.91	.15
	4700.000	641.00	108.49	100.50	7.99	65.42	329.46	1.95	.15
	4800		108.70		8.06			1.95	
	4900.000	641.00	108.91	100.75	8.16	64.92	327.51	1.96	.15
	5000		109.1		8.11			1.91	
	5200.000	559.00	109.51	101.50	8.01	61.08	310.00	1.80	.14
	5400.000	559.00	109.95	103.00	6.95	61.60	267.04	2.09	.18
	5600.000	559.00	110.69	104.50	6.19	53.11	211.28	2.65	.23
	5800.000	559.00	111.85	106.00	5.85	51.10	193.86	2.88	.26
	6000.000	559.00	113.24	107.50	5.74	50.41	188.00	2.97	.27
	6200.000	559.00	114.70	109.00	5.70	50.20	186.29	3.00	.27
	6400.000	559.00	116.20	110.50	5.70	50.11	185.53	3.01	.28
	6600.000	272.00	117.27	112.00	5.27	47.60	165.10	1.65	.16
	6700.000	272.00	117.56	112.75	4.81	44.82	143.69	1.89	.19
	6800.000	272.00	117.96	113.50	4.46	42.76	128.60	2.12	.21
	6900.000	272.00	118.49	114.25	4.24	41.44	119.33	2.28	.24
	7000.000	76.00	118.86	115.00	3.86	39.17	104.11	.73	.08
*	7100.000	76.00	118.96	115.75	3.21	35.22	79.63	.95	.11
*	7200.000	76.00	119.15	116.50	2.65	31.89	61.02	1.25	.16
	7300.000	76.00	119.54	117.25	2.29	29.73	49.91	1.52	.21
	7400.000	76.00	120.15	118.00	2.15	28.87	45.70	1.66	.23

	SECNO	Q	CWSEL	ELMIN	DEPTH	TOPWID	AREA	VCH	FRCH
	7500.000	76.00	120.86	118.75	2.11	28.68	44.78	1.70	.24
	7600.000	76.00	121.61	119.50	2.11	28.61	44.48	1.71	.24
	7800.000	76.00	123.11	121.00	2.11	28.66	44.70	1.70	.24
	8000.000	76.00	124.60	122.50	2.10	28.63	44.56	1.71	.24
	8200.000	76.00	126.10	124.00	2.10	28.64	44.61	1.70	.24
	8400.000	62.00	127.49	125.50	1.99	27.92	41.23	1.50	.22
	8600.000	62.00	128.87	127.00	1.87	27.27	38.24	1.62	.24
*	8800.000	62.00	129.94	128.50	1.44	58.86	63.09	1.04	.16

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=   7100.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=   7200.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=   8800.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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