

JR Engineering, Ltd.

6455 N. Union Blvd., Ste. 202
Colorado Springs, Colorado 80918
(719) 593-2593 • FAX (719) 528-6613

6857 South Spruce Street
Englewood, Colorado 80112
(303) 740-9393 • FAX (303) 721-9019

MASTER DEVELOPMENT DRAINAGE PLAN

FOR

FAIRFAX AT BRIARGATE

April, 1993 -
Revised July, 1993

Job No. 8418.71

**RETURN WITHIN 2 WEEKS TO:
CITY OF COLORADO SPRINGS
STORM WATER & SUBDIVISION
101 W. COSTILLA, SUITE 113
COLORADO SPRINGS, CO 80903,
(719) 578-6212**

Prepared For:

BRIARGATE JOINT VENTURE

7710 North Union Boulevard
Colorado Springs, CO 80920
(719) 528-5000

Prepared By:

JR ENGINEERING, LTD.

6455 North Union Boulevard, Suite 202
Colorado Springs, CO 80918
(719) 593-2593



Recycled

copies to Dave in K-5
original to Tom

CITY ENGINEERING DIVISION

FTI Bruce



CITY OF COLORADO SPRINGS

May 5, 1995

Mr. Michael DeGrant
Vintage Companies
7710 N. Union Blvd.
Colorado Springs, CO 80920

**SUBJECT: FAIRFAX MASTER DEVELOPMENT DRAINAGE PLAN
POWERS BOULEVARD EXTENSION NORTH PROJECT
STU M240-014 Sub. Acct. 10531**

Dear Mike:

The City of Colorado Springs has hired URS Consultants to prepare an Environmental Assessment (EA) of the potential social, environmental and economic impacts of extending Powers Boulevard from Woodmen Road north to I-25 at the north entrance of the Air Force Academy. Powers Boulevard is currently planned as an Expressway with future grade separated interchanges. As you may know Powers Boulevard's purpose is to function more like a freeway than an arterial roadway.

As part of our studies, we identified several drainage issues along the project corridor, notably from our review of the Pine Creek Drainage Basin Planning Study (DBPS) and the Fairfax Master Development Drainage Plan (MDDP). We have identified concerns with the information presented in these reports regarding the location of detention ponds and the use of Powers Boulevard to convey significant amounts of storm water runoff.

Detention ponds are located on the northeast quadrant of Powers Boulevard at Research Parkway, Briargate Parkway, and Union Boulevard. The flow patterns shown in these studies are identified for the at grade intersection of these arterial streets with Powers Boulevard. However, it appears that the detention ponds and flow patterns may conflict with a grade separated freeway and interchange. These ponds are located where future interchange ramps may be required. We will be initiating studies of the interchange alternatives including ramp locations in the next one to two weeks.

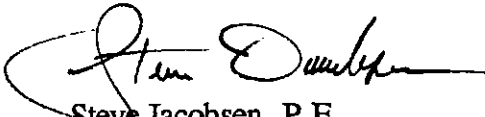
Both drainage studies show significant site runoff being directed to Powers Boulevard to be picked up in a storm sewer system in Powers Boulevard. In addition, Powers Boulevard is depicted as an overflow for major storm water runoff into or out of the ponds. It appears that both of these studies have assumed Powers Boulevard as a major arterial instead of an Expressway. As you may be aware the criteria for an Expressway is much more stringent than a major arterial. Due to the importance of an Expressway absolutely no stormwater runoff is allowed to encroach on any traffic lane.

We realize that the studies are conceptual in nature and are subject to refinement. However, we have been informed that you may be planning on constructing some of these facilities in the near future. Please take into account when preparing the final studies and/or plans that Powers Boulevard is an Expressway and the detention pond scheme above Powers Boulevard will need to be designed accordingly.

If you have any questions, please do not hesitate to contact me or Mark Mehalko at 634-6699.

Very truly yours,

URS CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read "Steve Jacobsen", written over a horizontal line.

Steve Jacobsen, P.E.
City Project Manager

cc: Jim Hauck, City of Colorado Springs
Bruce Thorson, City of Colorado Springs
Tim Mitros, City of Colorado Springs
Dick Annand, CDOT
Ed Hier, CDOT
Mark D. Mehalko, URS Consultants

**MASTER DEVELOPMENT DRAINAGE PLAN
FOR
FAIRFAX AT BRIARGATE**

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE</u>
EXECUTIVE SUMMARY	1
DRAINAGE REPORT STATEMENT	2
DRAINAGE REPORT:	3
Purpose	3
Fairfax at Briargate	3
Fairfax Creek Drainage Basin	3
General Description	4
Land Use	4
Soils Information	5
Hydrologic Parameters	6
Wetlands Determination	7
FEMA Floodplains	7
Off-site Drainage Concerns	7
Proposed Alternative Solutions	8
Alternative 1- No Detention Facilities	8
Alternative 2- Detention Facility, Lower Pond	9
2A. Undeveloped Upper Pond Area	
2B. Developed Upper Pond Area	
2C. Undeveloped Upper Pond Area with Increased Outlet	
Alternative 3- Detention Facility, Upper and Lower Pond	11

TABLE OF CONTENTS (Con't)

<u>ITEM</u>	<u>PAGE</u>
Recommended Alternative Plan	12
On-site Drainage Plan	13
Outfall Drainage Facilities	14
Implementation of Recommended Plan	15
Preliminary Cost Estimates and Basin Fees	16
Summary	24

APPENDIX:

HEC-1 COMPUTER PRINTOUTS

Reference No. (100-Year)	(10-Year)	Description
1	-	Undeveloped Fairfax Creek Basin
2	2A	Developed Fairfax Creek Basin
3	3A	Undeveloped Upper Pond Area without Upper Pond and Developed Lower Area with Lower Pond
4	4A	Developed Upper Pond Area without Upper Pond and Developed Lower Area with Lower Pond
5 (Recommended Plan)	5A	Developed Upper Pond Area with Upper Pond and Developed Lower Pond Area with Lower Pond
6	6A	Developed Upper Pond Area without Upper Pond and Developed Lower Pond Area with Lower Pond Enlarged
7	-	Undeveloped Upper Pond Area without Upper Pond and Developed Lower Pond Area with Lower Pond with Outlet Rate Not To Exceed Developed Lower Pond Area with Lower Pond Storage Volume at 75% Outlet.
8	-	Developed Upper Pond Area with Upper Pond with 75% Outlet and Developed Lower Pond Area with Lower Pond

TABLE OF CONTENTS (Con't)

APPENDIX (Con't):

HEC-1 COMPUTER PRINTOUTS		A-1
	Reference No.	
(100-Year)	(10-Year)	Description

9	-	Developed Upper Pond Area with Upper Pond and Developed Lower Pond Area with Lower Pond with 75% Outlet
10	-	Undeveloped Cottonwood Creek Basin "C" East of Fairfax Creek Basin
11	11A	Developed Cottonwood Creek Basin "C" East of Fairfax Creek Basin

M.D.D.P. DRAWING

(Back Pocket)

MASTER DEVELOPMENT DRAINAGE PLAN FAIRFAX AT BRIARGATE

EXECUTIVE SUMMARY

The Fairfax at Briargate M.D.D.P. incorporates the Fairfax Creek basin-specific parameters identified in the proposed Cottonwood Creek D.B.P.S., namely a restricted outlet for the Fairfax Creek Drainage Basin to Cottonwood Creek, as requested by the City.

The Fairfax Creek drainage basin is approximately 927 acres, of which 325 acres are in Fairfax at Briargate. The outfall to Cottonwood Creek for the 100-year undeveloped and developed basin is 1395 cfs and 2461 cfs, respectively. The City allowable outfall is restricted to 112 cfs.

To accommodate this basin-specific criteria, alternatives for runoff detention facilities consisting of one or two ponds and pond requirements considering overall basin development, are provided for comparison in selecting a preferred plan. A two pond system is recommended with a temporary outfall provision at Cottonwood Creek (Lower Pond) until the pond at Powers Boulevard (Upper Pond) is constructed.

A preliminary cost estimate for drainage improvements as shown on the M.D.D.P. drawing require an increase of \$785 to the Cottonwood Creek Basin Drainage Fee. (\$643 drainage, \$142 pond).

Public participation cost for the cost of the detention pond is 58.2%, or \$1,248,311.00.

Changes proposed by the M.D.D.P. to the D.B.P.S., based upon additional study and updated basin data, is as follows:

1. Two pond system instead of one.

A two pond system is more economical and complements the adjacent residential community. A roadway embankment is proposed for the Lower Pond and is optional for the Upper Pond.

2. Basin area larger.

Using FIMS and other updated mapping, a 24% increase resulted in the Fairfax Creek Tributary area.

3. Revised land use.

A 1993 revision to the Briargate Master Plan, currently submitted for adoption, resulted in a 15% runoff increase.

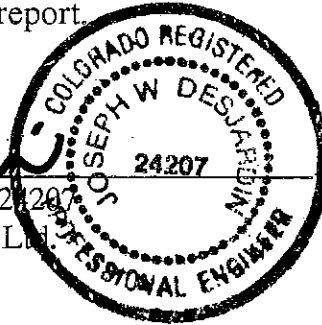
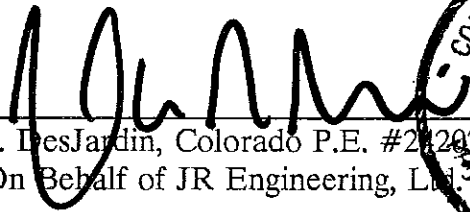
The current 1993 Drainage and Bridge Fee is \$3,969.00 (\$3,742.00 drainage, \$227.00 bridge). The proposed interim Cottonwood Creek drainage and pond fee of \$785.00 is to be added to the current fee of \$3,969.00, resulting in an interim fee for Cottonwood Creek of \$4,754 per unplatted acre.

**MASTER DEVELOPMENT DRAINAGE PLAN
FAIRFAX AT BRIARGATE**

DRAINAGE REPORT STATEMENT

ENGINEER'S STATEMENT:

The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the criteria established by the City for drainage reports and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any liability caused by any negligent acts, errors, or omissions on my part in preparing this report.



7.23.93

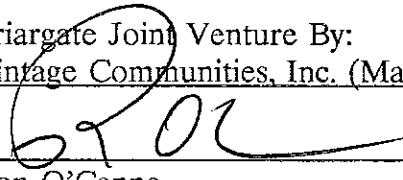
Joseph W. DesJardin, Colorado P.E. #24207
For and On Behalf of JR Engineering, Ltd.

Date

DEVELOPER'S STATEMENT:

I, the developer, have read and will comply with all of the requirements specified in this drainage report and plan.

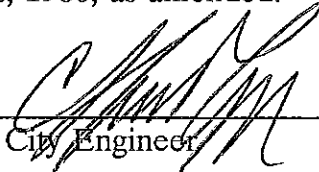
Briargate Joint Venture By:
Business Name: Vintage Communities, Inc. (Managing Agent)

By:  7/22/93
Ron O'Canna

Title: Development Manager
Address: 7710 North Union Boulevard
Colorado Springs, CO 80920

CITY OF COLORADO SPRINGS ONLY:

Filed in accordance with Section 15-3-906 of the Code of the City of Colorado Springs, 1980, as amended.



City Engineer

7/26/93
Date

Conditions:

SUBJECT TO CITY COUNCIL APPROVAL

MASTER DEVELOPMENT DRAINAGE PLAN
FOR
FAIRFAX AT BRIARGATE
JULY, 1993

PURPOSE:

The purpose of the Master Development Drainage Plan for Fairfax at Briargate is to identify relevant site drainage issues associated with the development. The Master Development Drainage Plan (M.D.D.P.) illustrates a conceptual plan for major storm drainage improvements such as channels, storm sewers, culverts and detention ponds. It should serve as an overall guide for planning and design and as a basis for subsequent preliminary and final drainage reports. The M.D.D.P. inherently demonstrates the ability of downstream facilities to convey developed runoff in accordance with this basin-specific City drainage criteria.

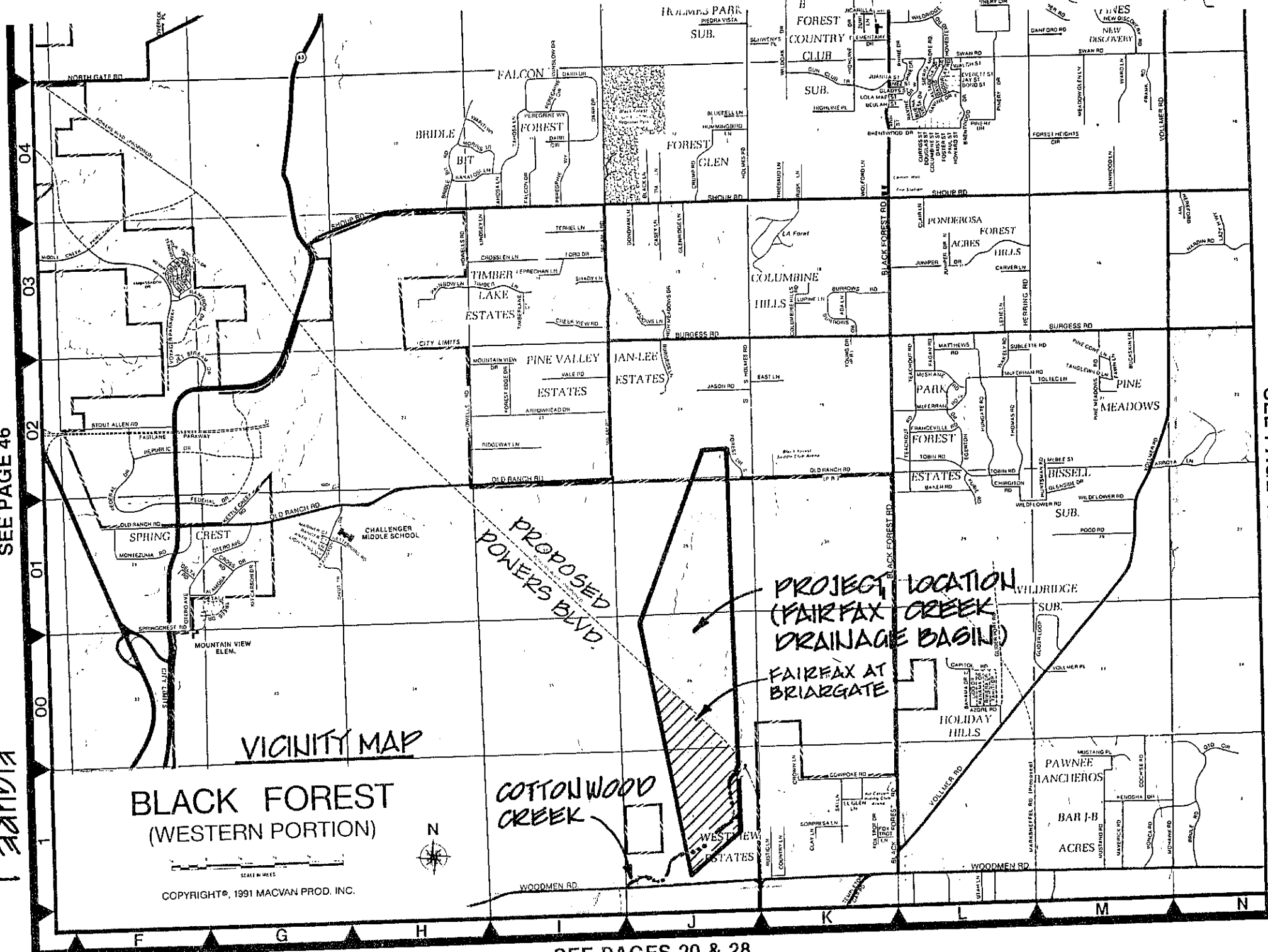
Incorporated in this M.D.D.P. for Fairfax at Briargate is information from the Cottonwood Creek Drainage Basin Planning Study (D.B.P.S) by URS Consultants, dated August 24, 1992 with Appendix, currently under review by the City of Colorado Springs and El Paso County. Basin-specific parameters identified in the D.B.P.S., namely a restricted outlet for the Fairfax Creek Drainage Basin to Cottonwood Creek, is the basis for the M.D.D.P., as requested by the City. No other drainage problems are identified in the D.B.P.S.

FAIRFAX AT BRIARGATE:

Fairfax at Briargate is a 325 acre multi-use planned development located mainly within Section 1, Township 13 South, Range 66 West of the Sixth Principal Meridian, in the City of Colorado Springs, Colorado. Locally, the site is generally located north of Cottonwood Creek, westerly of the proposed alignment of Powers Boulevard and east of Scarborough Drive. Figure 1 shows the area on a vicinity map.

SEE PAGE 46

FIGURE 1



COPYRIGHT ©, 1991 MACVAN PROD. INC.

SEE PAGE 41

FAIRFAX CREEK DRAINAGE BASIN:

GENERAL DESCRIPTION

The Fairfax Creek Drainage Basin is approximately 927 acres or 1.45 square miles. The basin can generally be described as bounded by Cottonwood Creek on the south, Old Ranch Road on the north, Powers Boulevard and Forest Drive on the east, and Scarborough Drive to the west. Proposed major roadways intersecting the basin include Powers Boulevard, Research Parkway, Briargate Parkway and Old Ranch Road.

The basin generally slopes from north to south with the majority of slopes ranging from 3 to 4 percent and outfalls to Cottonwood Creek west of Powers Boulevard near Woodmen Road. The terrain can be characterized as open rangeland except for the upper part of the basin approaching the Black Forest area.

LAND USE

The land uses and densities planned for Fairfax at Briargate are taken from the Briargate Master Plan approved by the City Council on July 28, 1987, revised March 11, 1992, and proposed 1993 revision, currently under review for adoption, as follows:

VL	Residential, Very Low (1-2 Du/Acre)
L	Residential, Low (3-5 Du/Acre)
LM	Residential, Low-Medium (5-8 Du/Acre)
M	Residential, Medium (8-12 Du/Acre)
MH	Residential, Medium-High (12-20 Du/Acre)
H	Residential, High (20-25 Du/Acre)
C	Commercial Village Center (CN, CC & CR)
OP	Office Park
ES, MS, HS	School
Park	Open Space

The Fairfax at Briargate site lies entirely within the Fairfax Creek Drainage Basin, which is a subbasin within the Cottonwood Creek Drainage Basin for which the City is currently reviewing for adoption the aforementioned Drainage Basin Planning Study, dated 1992. The proposed development conforms with the Briargate Master Plan 1993 proposed revision, currently under review for adoption.

SOILS INFORMATION

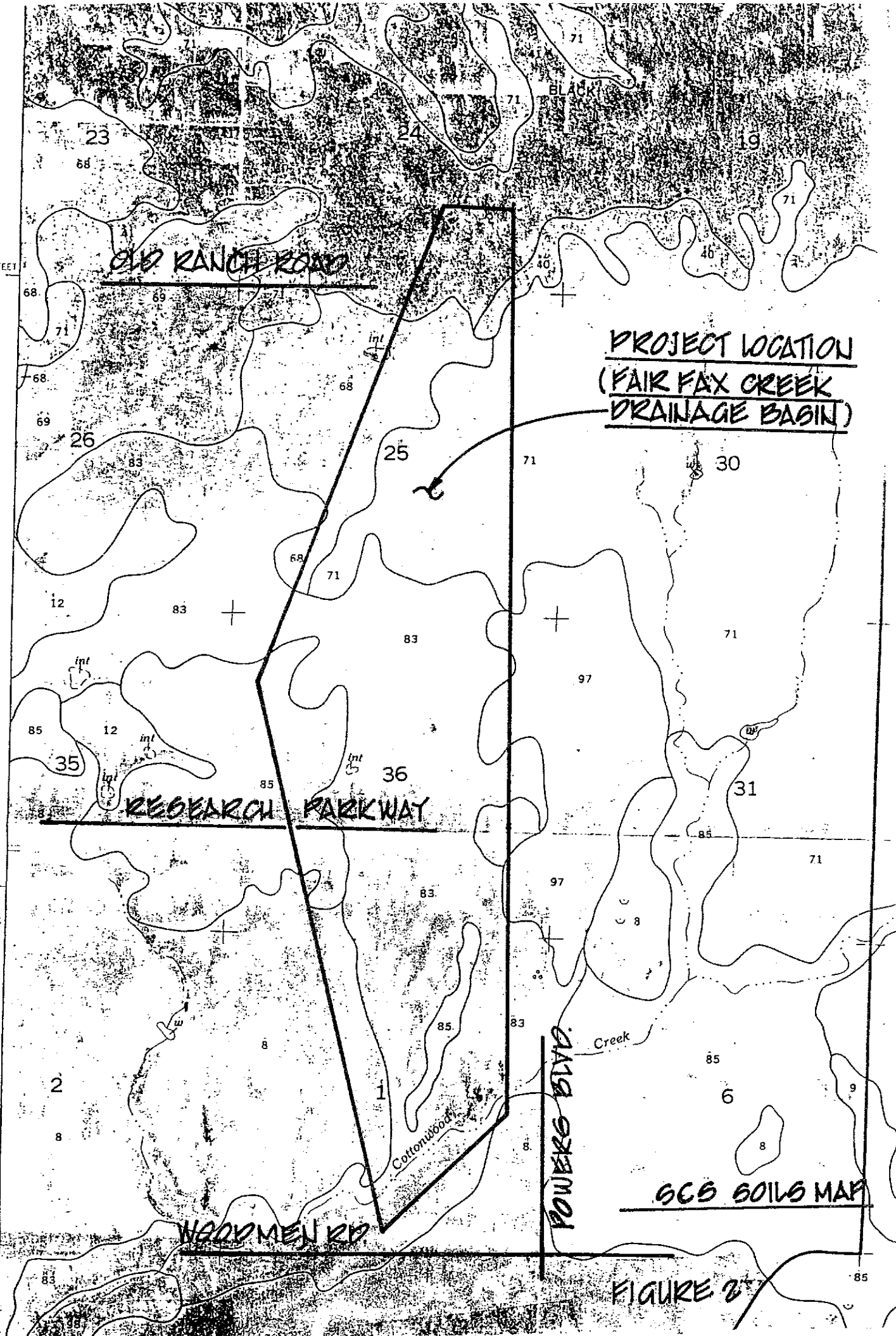
Soils information was obtained from "Soil Survey of El Paso County Area, Colorado" dated June, 1981, prepared by the Soil Conservation Service. The majority of the soils in the basin are Hydrologic Group "B" with some "A", as follows. Figure 2 shows the map symbols on a soils investigation map.

Map Symbol	Soil Name	Hydrologic Group
8	Blakeland	A
40	Kettle	B
41	Kettle	B
68	Peyton Part	B
71	Pring	B
83	Stapleton	B
85	Stapleton Part	B
97	Truckton	B

Hydrologic Group "A" and "B" have a low natural runoff property. Table 11, Water Management, in the Soil Survey, generally characterizes these soils poor for both channel and embankment construction due to piping and erodibility. Hydrologic Group "B" was used for all basin hydrologic analyses.

420,000 FEET

T. 12 S.
T. 13 S.



PROJECT LOCATION
(FAIR FAX CREEK
DRAINAGE BASIN)

RESEARCH PARKWAY

WOODMEN RD

POWERS BLVD.

GCC SOILS MAP

FIGURE 2

HYDROLOGIC PARAMETERS

The Fairfax Creek Drainage Basin was modeled using the U.S. Army Corps of Engineers HEC-1 computer program with the SCS Unit Hydrograph method of determining runoff for the subbasins. The results are for the 100-year 24-hour storm using AMC-2. The drainage basin boundary was determined from the 1"=200' scale contour maps at a two foot interval provided by the City and USGS quad maps. The basin curve numbers were determined from projected land uses developed from current zoning and master plans. The SCS hydrologic soil types were obtained from the SCS Soil Survey of El Paso County Area, Colorado. A rainfall depth of 4.4 and 3.0 inches for the 100 and 10-year 24-hour storm, respectively, was used for the basin based on isopluvials for the basin area. A five minute interval was used for hydrographs. As noted in the D.B.P.S., a five minute interval maintains consistency with the majority of the studies done in recent years.

Subbasins are delineated considering existing basin flow lines, proposed roadways, pond detention facilities, development features and basin size. The Fairfax Creek Drainage Basin with its subbasins (Basin E) and the adjacent basin to the east (Basin C) is shown on the M.D.D.P. drawing. Figure 3 shows the subbasin hydrologic data.

Time of concentration calculations combine overland flow and street, channel or storm sewer system times. Figure 4 shows the subbasin time of concentration data. Lag is total overland and storm sewer system travel time (time of concentration) in hours. UD is 0.6 lag.

Detention facilities (Upper and Lower Ponds) are shown on the M.D.D.P. drawing with the tributary area for each pond. Subbasins EU-1 through EU-5 are tributary to the Upper Pond, Subbasins EL-1 through EL-12 are tributary to the Lower Pond, and Subbasins EC-1 through EC-3 are tributary to Cottonwood Creek.

FAIRFAX CREEK M.D.D.P.
SCS METHOD - SUBBASIN HYDROLOGIC DATA
Average Land Use Type and Acres

Basin Number	70 VL	75 L	80 LM	85 M	85 MH	92 OP	88 School	69 Park	Area Acres	CN#
EU-1		23.6	69.5			0.4			93.5	78.8
EU-2		15.0	25.0	16.1	36.2	19.9		6.3	118.5	83.1
EU-3		12.3	39.4		19.6	0.2			71.5	80.5
EU-4		0.3		2.6	8.4	46.9		71.0	129.2	78.7
EU-5					0.6	2.4		44.4	47.4	69.0
EU-6		30.9	28.9		3.0			5.3	<u>68.1</u>	77.1

Area Tributary to Upper Pond 528.2 Ac.

EL-1			2.7			3.4		12.0	18.1	75.0
EL-2		0.7	15.4						16.1	80.2
EL-3			3.5			17.0			20.5	90.0
EL-4					18.5				18.5	85.0
EL-5							21.4		21.4	88.0
EL-6						38.2			38.2	92.0
EL-7				7.3	4.3		7.2		18.8	86.1
EL-8		19.3							19.3	75.0
EL-9		25.7	18.7						44.4	77.1
EL-10		22.2	5.6						27.8	76.0
EL-11		13.2				18.4			31.6	84.9
EL-12		35.0	33.0						<u>68.0</u>	77.4

Area Tributary to Lower Pond 342.7 Ac.

EC-1			8.8						8.8	80.0
EC-2								16.8	16.8	69.0
EC-3			8.1					22.0	<u>30.1</u>	72.0

Area EC Tributary to Cottonwood Creek 55.7 Ac.

CC-1		21.6	14.2					0.6	36.4	77.0
CC-2		34.2	11.4		7.5			4.6	57.7	76.8
CC-3			54.4		19.8			10.0	<u>84.2</u>	79.9

Area CC Tributary to Cottonwood Creek 178.3 Ac.

TOTAL FAIRFAX CREEK BASIN AREA -

EU = 528.2 Ac. (Upper Pond)

EL = 342.7 Ac. (Lower Pond)

EC = 55.7 Ac. (Direct Outfall to Cottonwood Creek)

926.6 Ac. TOTAL BASIN -

Figure 3

FAIRFAX CREEK M.D.D.P.

SUBBASIN TIME OF CONCENTRATION DATA

Basin Number	Length (Ft.)	Slope (%)	Overland (Min.)	Street (Min.)	Total (Min.)	Lag (Hrs)	UD (0.6 Lag)
EU-1	4,800	6.7	10	5	15	0.25	0.15
EU-2	6,600	3.0	10	11	21	0.35	0.21
EU-3	4,600	4.8	10	6	16	0.27	0.16
EU-4	7,800	3.6	10	12	22	0.37	0.22
EU-5	3,800	3.2	10	6	16	0.27	0.16
EU-6	6,300	3.3	10	10	20	0.33	0.20
EL-1	2,600	3.8	10	4	14	0.23	0.14
EL-2	1,600	2.5	10	3	13	0.22	0.13
EL-3	1,400	2.8	10	2	12	0.20	0.12
EL-4	1,400	2.1	10	2	12	0.20	0.12
EL-5	1,800	4.3	10	2	12	0.20	0.12
EL-6	2,100	3.8	10	3	13	0.22	0.13
EL-7	1,500	2.7	10	2	12	0.20	0.12
EL-8	2,200	3.6	10	3	13	0.22	0.13
EL-9	2,900	3.4	10	4	14	0.23	0.14
EL-10	1,600	5.3	10	2	12	0.20	0.12
EL-11	1,700	3.5	10	2	12	0.20	0.12
EL-12	4,200	3.2	10	6	16	0.27	0.16
EC-1	1,000	5.0	10	1	11	0.18	0.11
EC-2	1,600	1.9	10	3	13	0.22	0.13
EC-3	3,000	3.0	10	5	15	0.25	0.15
CC-1	3,600	3.6	10	5	15	0.25	0.15
CC-2	3,400	3.2	10	5	15	0.25	0.15
CC-3	4,900	3.2	10	8	18	0.30	0.18

Figure 4

Major drainageway improvements include channel and storm sewer improvements. Figure 5 shows summary of subbasin peak flows for the 100 and 10-year storm.

WETLANDS DETERMINATION

Based upon cursory observation, there are no apparent existing wetlands within the Fairfax at Briargate development area except for possible areas along Cottonwood Creek. A final determination for wetlands should be made by the governing agency in conjunction with Cottonwood Creek stabilization construction plans.

FEMA FLOODPLAINS

The Flood Insurance Rate Map (FIRM) categorizes Fairfax Creek as a Zone "A" special flood hazard area inundated by 100-year flood. Figure 6 shows part of Panel Number 080060 0158 B, effective December 18, 1986. As shown on Figure 6, the Zone "A" hazard area extends from Cottonwood Creek approximately 1,800 feet north of Research Parkway. The approximate flood hazard area is also shown on the M.D.D.P drawing. A FEMA Letter of Map Revision (LOMR) will be required for Fairfax Creek to accommodate proposed drainage improvements.

HEC-1 computer printouts are included in the Appendix for the 100 and 10-year storm.

OFF-SITE DRAINAGE CONCERNS

The Fairfax Creek Drainage Basin is approximately 927 acres. The basin outfalls to Cottonwood Creek. The 100-year undeveloped and developed basin runoff is 1395 cfs and 2461 cfs, respectively. Of the 927 total acres, 325 acres are in Fairfax at Briargate and the remaining 602 acres are off-site drainage. Figuratively, all drainage east of Powers Boulevard is considered off-site drainage.

Cottonwood Creek Basin "C", east of Fairfax Drainage Basin, is approximately 179 acres and is diverted to Cottonwood Creek at Powers Boulevard. The 100-year

FAIRFAX CREEK M.D.D.P.

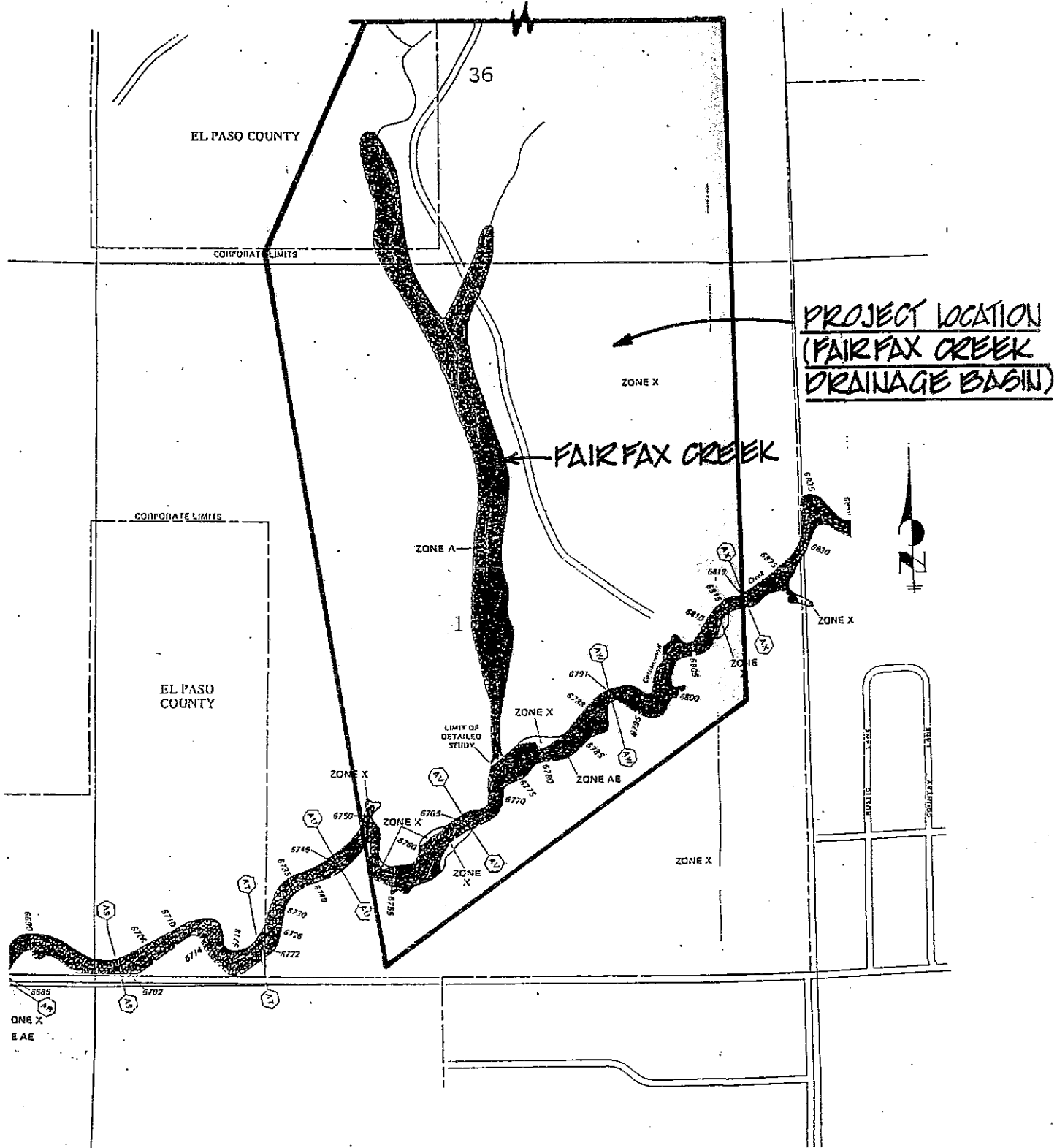
BASIN HYDROLOGY - SUMMARY OF PEAK FLOWS

(100-Year)		(10-Year)	Description
(1395 cfs)	1	-	Undeveloped Fairfax Creek Basin
(2461 cfs)	2	(1276 cfs) 2A	Developed Fairfax Creek Basin
(127 cfs)	3	(107 cfs) 3A	Undeveloped Upper Pond Area without Upper Pond and Developed Lower Area with Lower Pond
(131 cfs)	4	(112 cfs) 4A	Developed Upper Pond Area without Upper Pond and Developed Lower Area with Lower Pond
(111 cfs)	5	(95 cfs) 5A	Developed Upper Pond Area with Upper Pond and Developed Lower Pond Area with Lower Pond
(126 cfs)	6	(106 cfs) 6A	Developed Upper Pond Area without Upper Pond and Developed Lower Pond Area with Lower Pond Enlarged
(235 cfs)	7	-	Undeveloped Upper Pond Area without Upper Pond and Developed Lower Pond Area with Lower Pond with Outlet Rate Not To Exceed Developed Lower Pond Area with Lower Pond Storage Volume at 75% Outlet
(111 cfs)	8	-	Developed Upper Pond Area with Upper Pond with 75% Outlet and Developed Lower Pond Area with Lower Pond
(85 cfs)	9	-	Developed Upper Pond Area with Upper Pond and Developed Lower Pond Area with Lower Pond with 75% Outlet
(276 cfs)	10	-	Undeveloped Cottonwood Creek Basin "C" East of Fairfax Creek Basin
(486 cfs)	11	(245 cfs) 11A	Developed Cottonwood Creek Basin "C" East of Fairfax Creek Basin

Total Pond Release Rate per Cottonwood Study = 112 cfs

Upper Pond Release (per acreage area) = $0.57 \times 112 = 64$ cfs
 $528/926.6 = 57\%$

Figure 5



LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD**
- ZONE A** No base flood elevations determined.
 - ZONE AE** Base flood elevations determined.
 - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
 - ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
 - ZONE ABB** To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
 - ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
 - ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE**

- OTHER AREAS**
- ZONE X** Areas determined to be outside 500-year flood plain.
 - ZONE D** Areas in which flood hazards are undetermined.
- Flood Boundary
 - - - Floodway Boundary
 - - - Zone D Boundary
 - Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
 - Base Flood Elevation Line: Elevation in Feet*
 - Cross Section Line
 - Base Flood Elevation in Feet Where Uniform Within Zone*
 - Elevation Reference Mark

*Referenced to the National Geodetic Vertical Datum of 1929

FEMA FIRM
 PANEL NUMBER
 080060-0158-B
 DEC. 18, 1986
 FIGURE 6

undeveloped and developed basin runoff is 276 cfs and 486 cfs, respectively. The area west of the Fairfax Drainage Basin outfalls to either Pine Creek Basin or Austin Bluffs Parkway Basin.

Fairfax at Briargate is affected by off-site drainage from the north and east as shown on the M.D.D.P. drawing. Drainage from the north is intercepted by Powers Boulevard and diverted to Research Parkway. Runoff along Research Parkway outfalls to Fairfax Creek at DP #1EL. Fairfax Creek conveys runoff south from Research Parkway and outfalls to Cottonwood Creek at DP #1EC.

Runoff from Cottonwood Creek Basin "C" is diverted by Powers Boulevard to Cottonwood Creek at DP #2CC.

PROPOSED ALTERNATIVE SOLUTIONS:

Off-site drainage impacts Fairfax at Briargate. Since the City is in the process of updating the drainage criteria affecting the Fairfax Creek Drainage Basin, the following alternatives are provided for comparison in selecting a preferred plan. These alternatives range from no runoff detention facilities to detention facilities consisting of one or two ponds and pond requirements considering overall basin development progress.

ALTERNATIVE 1 - NO DETENTION FACILITIES.

(Refer to HEC-1 Computer Printout No. 2 for 100-year storm and No. 2A for 10-year storm).

Alternative 1 requires no basin runoff detention facilities. Proposed drainage improvements are sized to convey basin runoff in accordance with the following drainage schematic:

Basins routed to DP-1EU (1457 cfs) - Pipe/Channel . . .

DP-1EU routed to DP-1EL (1963 cfs) - Channel . . .

DP-1EL routed to DP-1EC/Cottonwood Creek (2461 cfs) - Channel.

In summary, Alternative 1 provides no runoff detention and outfalls developed Fairfax Creek Basin runoff of 2461 cfs to Cottonwood Creek.

For comparison to undeveloped basin runoff, 1395 cfs, refer to HEC-1 Computer Printout No. 1.

ALTERNATIVE 2 - DETENTION FACILITY, LOWER POND.

Alternative 2 identifies Lower Pond requirements when the Upper Pond area is undeveloped and developed. Lower Pond area is developed.

2A. Undeveloped Upper Pond Area - (Refer to HEC1 Computer Printout No. 3 for 100-year storm and No. 3A for 10-year storm). Alternative 2A assumes undeveloped Upper Pond area and developed lower pond area with Lower Pond. Proposed drainage improvements are sized to convey basin runoff in accordance with the following drainage schematic:
Basins routed to DP-1EU (793 cfs) - Pipe/Channel . . .
. . . DP-1EU routed to DP-1EL (903 cfs) - Channel
DP-1EL routed to DP-2EL/Lower Pond (1375 cfs). . .
. . . DP-2EL/(DF/LP) routed to DP-1EC/Cottonwood
Creek (127 cfs) -pipe.

In summary, Alternative 2A assumes undeveloped Upper Pond area without Upper Pond and developed Lower Pond area with Lower Pond. The Lower Pond peak storage is 89 acre-feet at elevation 6817.1 feet. The peak flow to Cottonwood Creek is 127 cfs.

2B. Developed Upper Pond Area - (Refer to HEC-1 Computer Printout No. 4 for 100-year storm and No. 4A for 10-year storm). Alternative 2B assumes developed Upper Pond area and developed Lower Pond area with Lower Pond. Proposed drainage improvements are sized to convey basin runoff in accordance with the following drainage schematic:
Basins routed to DP-1EU (1475 cfs) - Pipe/Channel . . .
. . . DP-1EU routed to DP-1EL (1963 cfs) - Channel . . .
. . . DP-1EL routed to DP-2EL/Lower Pond (2358 cfs) . . .
. . . DP-2EL/(DF/LP) routed to DP-1EC/Cottonwood Creek (131 cfs/ 126 cfs Enlarged Pond).

In summary, Alternative 2B assumes developed Upper Pond area without Upper Pond and developed Lower Pond area with Lower Pond. The Lower Pond peak storage is 102 acre-feet at elevation $6818.6 \pm$ feet. The required storage volume exceeds the proposed Lower Pond capacity.

The proposed Lower Pond can be enlarged, as shown on the M.D.D.P. drawing, to provide sufficient storage capacity (Refer to HEC-1 Computer Printout No. 6 for 100-year storm and No. 6A for 10-year storm). The enlarged Lower Pond peak storage is 102 acre-feet at elevation 6816.2. The peak flow to Cottonwood Creek is 126 cfs.

2C. Undeveloped Upper Pond Area with Increased Outlet - (Refer to HEC-1 Computer Printout No. 7).

Alternative 2C assumes undeveloped Upper Pond area and developed Lower Pond area with Lower Pond. Proposed drainage improvements are sized to convey basin runoff in

accordance with the following drainage schematic:

Basins routed to DP-1EU (793 cfs) - Pipe/Channel . . .
. . . DP-1EU routed to DP-1EL (903 cfs) - Channel . . .
. . . DP-1EL routed to DP-2EL/Lower Pond (1375 cfs)
Channel . . .
. . . DP-2EL/(DF/LP) routed to DP-1EC/Cottonwood Creek
(235 cfs).

In summary, Alternative 2C assumes undeveloped Upper Pond area without Upper Pond and developed Lower Pond area with Lower Pond. The Lower Pond peak storage is 74 acre-feet at elevation 6514.9 feet. The peak flow to Cottonwood Creek is 235 cfs.

ALTERNATIVE 3 - DETENTION FACILITY, UPPER AND LOWER POND.

(Refer to HEC-1 Computer Printout No. 5 for 100-year storm and No. 5A for 10-year storm).

Alternative 3 identifies Upper and Lower Pond requirements when the Upper and Lower Pond areas are developed. Proposed drainage improvements are sized to convey basin runoff in accordance with the following drainage schematic:

Basins routed to DP-1EU/Upper Pond (1457 cfs) - Pipe/Channel . . .
. . . DP-1EU/(DF/UP) (57 cfs) routed to DP-1EL (627) - Pipe . . .
. . . DP-1EL routed to DP-2EL/Lower Pond (1073 cfs) - Channel . .
. . DP-2EL/(DF/LP) routed to DP-1EC/Cottonwood Creek (111 cfs).

In summary, Alternative 3 assumes developed Upper Pond area with Upper Pond and developed Lower Pond area with Lower Pond. The Upper Pond peak storage is 61 acre-feet at elevation 6972.1 and

the peak flow from the Upper Pond is 57 cfs. The Lower Pond peak storage is 44 acre-feet at elevation 6810.2 feet and the peak flow to Cottonwood Creek is 111 cfs.

To evaluate the pond peak storage volumes considering outlet pipe clogging, a 25% clogging factor was modeled. The 25% outlet clogging model for the Upper Pond indicates a pond peak storage of 64 acre-feet at elevation 6972.4 and a peak flow of 43 cfs. (Refer to HEC-1 Computer Printout No. 8).

For the Lower Pond, the 25% outlet clogging model indicates a pond peak storage of 49 acre-feet at elevation 6811.1 and the peak flow to Cottonwood Creek is 85 cfs. (Refer to HEC-1 Computer Printout No. 9).

A summary of all calculations is included in the Appendix.

RECOMMENDED ALTERNATIVE PLAN:

The recommended alternative plan is subject to the City drainage criteria for the Fairfax Creek Basin. Existing criteria allows a flow-through storm condition without detention as indicated in Alternative 1. (Refer to HEC-1 Computer Printout No. 2 for 100-year and No. 2A for 10-year storm). Major drainage improvements through Fairfax at Briargate would emphasize grass-lined channels with appropriate velocity control/erosion structures.

If the City drainage criteria is basin-specific for Fairfax Creek, namely restricting the total basin outfall rate from approximately 2461 cfs to 112 cfs at Cottonwood Creek, runoff detention is required. Alternative 3 provides for necessary basin runoff detention using two detention ponds (Upper and Lower Ponds). The peak flow from the Upper Pond is based on the percent of total basin area tributary to

the pond, namely $528 \text{ acres}/926 \text{ acres} = 0.57 \times 112 = 64 \text{ cfs}$. The peak flow from the Lower Pond is 111 cfs. The required peak storage volumes, considering 25% outlet clogging is 64 and 49 acre-feet, respectively, for the Upper and Lower Pond.

Understanding that the Upper Pond may not be constructed until the Upper Pond area is developed, the outlet for the Lower Pond should be increased from 111 cfs to 235 cfs. Initial construction of a 48-inch outlet pipe would allow a peak flow of 235 cfs, and provide peak storage of 74 acre-feet. After the Upper Pond is constructed, the 48 inch outlet pipe would be restricted to outfall the basin-specific 112 cfs to Cottonwood Creek. (Refer to HEC-1 Computer Printout No. 5, 7 and 9 for 100-year storm and No. 5A for the 10-year storm).

Drainageway improvements along Cottonwood Creek include a natural creek bottom with buried rip-rap banks and grade control structures recommended in the proposed D.B.P.S.

ON-SITE DRAINAGE PLAN:

Based upon the proposed grading and development configurations, Fairfax at Briargate has been divided into 15 subbasins, (Subbasin EL-5, 21.4 acres; EL-6, 38.2 acres; EL-7, 18.8 acres; EL-8, 19.3 acres; EL-9, 44.4 acres; EL-10, 27.8 acres; EL-11, 31.6 acres; EL-12, 68.0 acres; and EC-1, 8.8 acres; EC-2, 16.8 acres and EC-3, 30.1 acres) as shown on the M.D.D.P. drawing. The total site drainage area is approximately 325.2 acres.

Runoff from Subbasins EL-5, EL-6, EL-7 and EL-8 will overland or pipe flow to Fairfax Creek at Research Parkway, shown as DP-1EL.

Runoff from Subbasins EL-8, EL-9, EL-10, EL-11, and EL-12 will overland or pipe flow to an improved Fairfax Creek from Research Parkway to Cottonwood Creek and outfall to Cottonwood Creek at DP-1EC.

Runoff from Subbasins EC-1, EC-2 and EC-3 adjacent to Cottonwood Creek will outfall directly to Cottonwood Creek.

A summary of all calculations is included in the Appendix.

OUTFALL DRAINAGE FACILITIES:

Drainage facilities required to accommodate runoff from Fairfax at Briargate consists of overland flow in streets, channels and necessary storm sewer improvements, as shown on the M.D.D.P. drawing. Affected drainage is conveyed to an improved Fairfax Creek and outfall directly to Cottonwood Creek.

Cottonwood Creek Subbasin "C" outfall will be diverted by Powers Boulevard to Cottonwood Creek by a proposed storm sewer.

Final determination of outfall drainage facilities is subject to the basin-specific City drainage criteria.

Drainage improvements to Cottonwood Creek are recommended in the proposed D.B.P.S. Implementation of recommended improvements is discussed in the Implementation Plan.

IMPLEMENTATION OF RECOMMENDED PLAN

The Fairfax at Briargate M.D.D.P. recommended plan involves construction of two detention facilities, namely the Lower and Upper Ponds. Understanding that overall basin development may occur sporadically over time, an implementation plan is necessary to relate basin development to construction of drainage improvements as follows:

IMPLEMENTATION PLAN

DEVELOPMENT PHASE	REQUIRED MAJOR DRAINAGE IMPROVEMENTS
1. Fairfax Area #9 (EC-1, 8.8 Acres)	•None
2. Fairfax Area #10 (EL-10, 27.8 Acres)	•Partial Lower Pond •Temporary Lower Pond embankment and outfall
3. Fairfax Area #11 (EL-9, 44.4 Acres)	•Final Lower Pond •Final Lower Pond Embankment outfall and spillway •Final grass-lined channel to Chancellor Drive sized to convey developed Lower Pond basin runoff and undeveloped Upper Pond basin runoff.
4. Fairfax Area #12 (EL-8, 19.3 Acres)	•Final grass-lined channel from Chancellor Drive to Research Parkway.
5. Fairfax Area #13 (EL-7, 18.8 Acres)	•None
6. Fairfax Area #14 (EL-3 & Part EL-12, 56.2 Acres)	•Cottonwood Basin "C" diversion storm sewer at Powers Blvd
7. Fairfax Area #15 (Part EL-12, 35.2 Acres)	•Chancellor Road culvert sized to convey undeveloped basin runoff or... sized for two pond system requiring temporary Upper Pond detention.
8. Fairfax Area #16 (EL-11, 31.6 Acres)	•Research Parkway culvert sized to convey undeveloped basin runoff...or... sized for two pond system requiring temporary Upper Pond detention.

IMPLEMENTATION PLAN (Con't)

DEVELOPMENT PHASE	REQUIRED MAJOR DRAINAGE IMPROVEMENTS.
9. Fairfax Area #17 (EL-6, 38.2 Acres)	•Temporary channel improvements from Powers Blvd. to Research Parkway culvert...or... Final Upper Pond, embankment, spillway and outfall sewer to Research Parkway culvert and Powers Blvd right-of-way graded to convey spillway overflow to Research Parkway.
10. Fairfax Area #18 (EL-5, 21.4 Acres)	•None

The Implementation Plan should serve as an overall guide for planning and design of major drainage improvements associated with proposed basin development. If the anticipated sequence of basin development changes, the Implementation Plan should be revised accordingly.

Cottonwood Creek drainageway improvements include a natural creek bottom with buried riprap banks and grade control structures recommended in the proposed D.B.P.S. Since the developed basin runoff from Fairfax Creek is reduced from approximately 2461 cfs to 112 cfs, the drainageway improvements along Cottonwood Creek can be delayed until the City undertakes to construct the project.

PRELIMINARY COST ESTIMATE AND BASIN FEE

There are two separate fees proposed for the Fairfax Creek Drainage Basin, namely a drainage fee and a detention pond fee. The drainage fee includes initial systems and major facilities. A preliminary cost estimate to determine the basin fees follows:

DRAINAGE FEE:

INITIAL SYSTEMS

Initial system drainage facilities have been evaluated for Fairfax at Briargate for the two-pond recommended plan as shown on the MDDP drawing and are included in the determination of the basin drainage fees.

The preliminary cost estimate for the initial system drainage facilities is as follows:

ITEM	QTY/UNIT	UNIT COST	ITEM COST
PIPE:			
18" RCP	670 LF	\$30	\$ 20,100
24" RCP	3610 LF	40	144,400
30" RCP	4320 LF	50	216,000
36" RCP	4540 LF	60	272,400
42" RCP	600 LF	80	48,000
54" RCP	1300 LF	100	130,000
MANHOLES:	16 EA	\$10,000	160,000
CURB INLETS:			
6' to 10' opening	16 EA	5,000	80,000
11' to 20' opening	57 EA	8,000	456,000
OUTLET STRUCTURES:	14 EA	\$5,000	<u>70,000</u>
Subtotal			\$1,596,900
15% Engineering/Contingency			<u>239,535</u>
Initial System Total			\$1,836,435

MAJOR FACILITIES

Major drainage facilities affecting Fairfax at Briargate for the two pond recommended plan are shown on the M.D.D.P drawing. In addition to construction costs, other reimbursable costs include additional land (right-of-way) in excess of the 100-year floodplain width, and wetland/riparian mitigation. The preliminary cost estimate for the major facilities is as follows:

ITEM			ITEM COST
A. FAIRFAX CREEK CHANNEL			
Earthwork			\$ 93,800
Trickle Channel			52,500
Drop Structures			399,000
Surface Restoration/ Revegetation			55,800
Additional Rip-Rap			135,000
Culvert Crossings			<u>192,000</u>
	Subtotal		928,100
	15% Engineering/Contingency		<u>139,215</u>
	Channel Total		1,067,315
 B. COTTONWOOD BASIN "C" DIVERSION			
ITEM	QTY/UNIT	UNIT COST	ITEM COST
60" RCP	1750 LF	\$110	\$192,500
Manholes	3 EA	12,000	36,000
Inlet/Outlet	2 EA	10,000	20,000
Curb Inlets	6 EA	8,000	48,000
24" RCP	720 LF	40	<u>28,000</u>
	Subtotal		\$325,300
	15% Engineering/Contingency		<u>48,795</u>
	Basin "C" Diversion Total		\$ 374,095

C. COTTONWOOD CREEK STABILIZATION

D.B.P.S. Design Point (DP) 9 to 1800' downstream of Design Point 11, Bus Barn to Powers Blvd. Estimated costs taken from D.B.P.S.

REACH	QTY/LIMIT	ITEM COST
Reach Bus Barn to DP 11	1800	\$582,364
Reach DP 11 to DP 10	1100 LF	299,245
Reach DP 10 to DP 9	1800 LF	<u>456,848</u>
	Subtotal	\$1,338,457
	15% Engineering/Contingency	<u>200,768</u>
	Subtotal Cottonwood Creek Stabilization	\$1,539,225
	Total Cottonwood Creek Stabilization allocated to Fairfax Creek Basin	\$769,612

DRAINAGE FEE SUMMARY:

INITIAL SYSTEMS	\$1,836,435
MAJOR FACILITIES	
A. Fairfax Creek Channel	1,067,315
B. Cottonwood Basin "C" Diversion	374,095
C. Cottonwood Creek Stabilization	<u>769,612</u>
Drainage Fee Total	\$4,047,457

DETENTION POND FEE:

The storm detention facilities for the Fairfax Creek Drainage Basin include two detention ponds, namely the Lower and Upper Ponds as shown on the M.D.D.P. drawing. The preliminary cost estimate for the detention facilities are as follows:

ITEM	ITEM COST
A. LOWER POND	
Earthwork	\$191,300
Embankment Outfall System	62,000
Spillway	85,800
Drop Structures	171,000
Surface Restoration/Revegetation	83,700
Trickle Channel	26,300
Additional RipRap	48,000
Land	<u>168,000</u>
Subtotal	\$836,100
15% Engineering/Contingency	<u>125,415</u>
Lower Pond Total	\$961,515

ITEM	ITEM COST
B. UPPER POND	
Pipe from Channel to Pond	\$191,000
Earthwork	225,000
Trickle Channel	40,000
Embankment Outfall System	34,000
Spillway	45,000
Additional RipRap	54,000
Surface Restoration/Revegetation	132,000
Land	<u>308,000</u>
Subtotal	\$1,029,000
15% Engineering/Contingency	<u>154,350</u>
Upper Pond Total	\$1,183,350

DETENTION POND FEE SUMMARY:

Lower Pond	\$ 961,515
Upper Pond	<u>1,183,350</u>
Pond Fee Total	\$2,144,865

BASIN FEE:

The responsibility for construction of new public drainage facilities in public easements or right-of-ways is shared equally by all of the unplatted acreage within the basin. The preliminary D.B.P.S. states that, "under current drainage policy, the estimated amount of land that would be charged fees at the time of platting is 6,295 acres and this is the number that the fee needs to be based on".

To incorporate drainage improvements to the Fairfax Creek Drainage Basin as recommended in the Fairfax at Briargate M.D.D.P., it is necessary to increase the existing Cottonwood Creek Basin Drainage Fees and implement a Detention Pond Fee.

The Drainage Fee increase and Detention Pond Fee is determined as follows:

Drainage Fee:

The Drainage Fee includes the cost of initial systems and major facilities divided by the unplatted basin acreage, as follows:

\$1,836,435	Initial Systems
<u>2,211,022</u>	Major Facilities
\$4,047,457 divided by 6,295 acres = \$643.16	

The Drainage Fee increase in Cottonwood Creek Basin is \$643.00.

Detention Pond Fee;

The Detention Pond Fee includes the cost of the Upper and Lower Ponds multiplied by the unplatted basin average responsible share of 41.8%, and divided by the unplatted basin acreage, as follows:

\$ 961,515	Lower Pond
<u>1,183,350</u>	Upper Pond

\$2,144,865 times 41.8%, divided by 6,295 acres = \$142.00

The total increase in the Cottonwood Creek basin is \$785.00 per unplatted acre.

Public participation cost for the cost of the detention pond is 58.2%, or \$1,248,311.00.

The current 1993 Drainage and Bridge Fee is \$3,969.00 (\$3,742.00 drainage, \$227.00 bridge). The proposed interim Cottonwood Creek drainage and pond fee of \$785.00 is to be added to the current fee of \$3,969.00, resulting in an interim fee for Cottonwood Creek of \$4,754.00 per unplatted acre.

A cost comparison of the DBPS one pond and MDDP one (Lower) pond and MDDP two (Lower and Upper) pond drainage plans follows:

**MASTER DEVELOPMENT DRAINAGE PLAN
FAIRFAX AT BRIARGATE**

MDDP/DBPS IMPROVEMENTS COST COMPARISON

The following compares costs for the DBPS one pond, MDDP one (Lower) pond and MDDP two (Lower and Upper) pond drainage plans.

A. DRAINAGE REACH	DBPS POND	MDDP LOWER POND	MDDP UPPER & LOWER POND
1. Outfall/channel from Cottonwood Creek to MDDP Lower/DBPS pond	\$175,892	0	0
2. MDDP Lower/DBPS pond	1,464,898	1,486,315	1,310,410
3. Channel from MDDP lower/ DBPS pond to MDDP upper pond (Powers Blvd)	1,338,379	2,108,640	1,286,965
4. Channel/MDDP Upper Pond	<u>\$333,500</u>	<u>333,500</u>	<u>961,900</u>
Subtotal (Major Facilities/ Pond)	\$3,312,669	3,928,455	3,586,275
B. COTTONWOOD CREEK STABILIZATION	<u>769,612</u>	<u>769,612</u>	<u>769,612</u>
Subtotal	\$4,082,281	4,698,067	4,355,887
C. INITIAL SYSTEMS	--	--	<u>\$1,836,435</u>
TOTAL			\$6,192,322

SUMMARY:

Fairfax at Briargate is a proposed 325 acre, multi-use planned development located in the northeast part of Colorado Springs, Colorado. The proposed development land use is generally consistent with the proposed 1993 Briargate Master Plan.

The drainage criteria for the Fairfax Creek Drainage Basin is undefined. Since the City is in the process of updating the drainage criteria affecting the Fairfax Creek Drainage Basin, alternatives are provided for comparison in selecting a preferred plan. The alternatives range from no runoff detention facilities to detention facilities consisting of one or two ponds, and pond requirements considering overall basin development progress.

Based upon the basin-specific selected City drainage criteria, a two pond detention facility is recommended. For a two pond system, a temporary outfall provision for the pond at Cottonwood Creek (Lower Pond) is necessary until the pond at Powers Boulevard (Upper Pond) is constructed.

Drainage cost estimates for the Fairfax Creek Drainage Basin are included. The drainage costs result in a \$785.00 increase to the Cottonwood Creek Basin Drainage Fee (\$643 drainage, \$142 pond), resulting in an interim fee for Cottonwood Creek of \$4,754.00 per unplatted acres. Public participation cost for the cost of the detention pond is 58.2%, or \$1,248,311.00.

An Implementation Plan is provided to coordinate major drainage facilities with basin development.

A FEMA designated floodplain per Flood Insurance Rate Map Community Panel Number 080060-0158-B, dated December 18, 1986 is within Fairfax at Briargate. A FEMA Letter of Map Revision (LOMR) will be required for Fairfax Creek to accommodate drainage improvements.

All drainage improvements in the M.D.D.P. are subject to final design.

APPENDIX

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR UNDEVELOPED FAIRFAX CREEK BASIN									
3	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC41.DAT)									
	*DIAGRAM										
4	IT	5	0	0	300						
5	IO	5	1								
6	PG	2	4.4								
7	PG	1	0								
8	IN	15									
9	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
10	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
11	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
12	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
13	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
14	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
15	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
16	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
17	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
18	PC	.9938	.9950	.9963	.9975	1.0000					
19	KK	SBEU-1									
20	KM	RUNOFF FROM SBEU-1									
21	BA	0.1461									
22	PR	1									
23	PW	1									
24	PT	2									
25	PW	1									
26	LS	0	76.0								
27	UD	0.33									
28	KK	DP-1EU									
29	KM	ROUTE SBEU-1 TO DP-1EU									
30	RK	6600	0.0300	0.045	0	TRAP	8	10			
31	KK	SBEU-2									
32	KM	RUNOFF FROM SBEU-2									
33	BA	0.1851									
34	PR	1									
35	PW	1									
36	PT	2									
37	PW	1									
38	LS	0	76.0								
39	UD	0.51									
40	KK	DP-1EU									

41 KM COMBINE FLOWS AT DP-1EU
 42 HC 2
 43 KK SBEU-3
 44 KM RUNOFF FROM SBEU-3
 45 BA 0.1117
 46 PR 1
 47 PW 1
 48 PT 2
 49 PW 1

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
50	LS	0	76.0								
51	UD	0.36									
52	KK	DP-1EU									
53	KM	ROUTE SBEU-3 TO DP-1EU									
54	RK	3400	0.0290	0.045	0	TRAP	8		10		
55	KK	DP-1EU									
56	KM	COMBINE FLOWS AT DP-1EU									
57	HC	2									
58	KK	SBEU-4									
59	KM	RUNOFF FROM SBEU-4									
60	BA	0.2019									
61	PR	1									
62	PW	1									
63	PT	2									
64	PW	1									
65	LS	0	76.0								
66	UD	0.50									
67	KK	DP-1EU									
68	KM	COMBINE FLOWS AT DP-1EU									
69	HC	2									
70	KK	SBEU-5									
71	KM	RUNOFF FROM SBEU-5									
72	BA	0.0741									
73	PR	1									
74	PW	1									
75	PT	2									
76	PW	1									
77	LS	0	76.0								
78	UD	0.42									
79	KK	DP-1EU									
80	KM	COMBINE FLOWS AT DP-1EU									
81	HC	2									
82	KK	SBEU-6									
83	KM	RUNOFF FROM SBEU-6									
84	BA	0.1064									
85	PR	1									
86	PW	1									
87	PT	2									
88	PW	1									
89	LS	0	76.0								
90	UD	0.48									
91	KK	DP-1EU									
92	KM	ROUTE SBEU-6 TO DP-1EU									
93	RK	1000	0.0400	0.045	0	TRAP	8		10		

297	PI	2	
298	PW	1	
299	LS	0	76.0
300	UD	0.46	
301	KK	DP-1EC	
302	KM	COMBINE FLOWS AT DP-1EC	
303	HC	2	
304	KK	SBEC-3	
305	KM	RUNOFF FROM SBEC-3	
306	BA	0.0470	
307	PR	1	
308	PW	1	
309	PT	2	
310	PW	1	
311	LS	0	76.0
312	UD	0.41	

HEC-1 INPUT

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

313	KK	DP-1EC	
314	KO	2	
315	KM	COMBINE FLOWS AT DP-1EC	
316	HC	2	
317	KM	FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK	
318	ZZ		

1
 SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
LINE		
NO.	(.) CONNECTOR	(<----) RETURN OF DIVERTED OR PUMPED FLOW
19	SBEU-1	
	V	
	V	
28	DP-1EU	
	.	
31	SBEU-2	
	.	
	.	
40	DP-1EU.....	
	.	
43	SBEU-3	
	V	
	V	
52	DP-1EU	
	.	
55	DP-1EU.....	
	.	
58	SBEU-4	
	.	
67	DP-1EU.....	
	.	
70	SBEU-5	
	.	
	.	

79	DP-1EU.....	
	.	
82	.	SBEL-6
	.	∨
	.	∨
91	.	DP-1EU
	.	.
94	DP-1EU.....	
	∨	
	∨	
97	DP-1EL	
	.	
100	.	SBEL-6
	.	.
109	DP-1EL.....	
	.	
112	.	SBEL-1
	.	∨
	.	∨
121	.	DP-1EL
	.	.
124	DP-1EL.....	
	.	
127	.	SBEL-2
	.	∨
	.	∨
136	.	DP-1EL
	.	.
139	DP-1EL.....	
	.	
142	.	SBEL-3
	.	∨
	.	∨
151	.	DP-1EL
	.	.
154	DP-1EL.....	
	.	
157	.	SBEL-4
	.	∨
	.	∨
166	.	DP-1EL
	.	.
169	DP-1EL.....	
	.	
172	.	SBEL-5
	.	∨
	.	∨
181	.	DP-1EL
	.	.
184	DP-1EL.....	
	.	

187	.	SBEL-7	.
	.	∨	.
	.	∨	.
196	.	DP-1EL	.
	.	.	.
199	.	DP-1EL.....	.
	.	∨	.
	.	∨	.
202	.	DP-2EL	.
	.	.	.
205	.	SBEL-8	.
	.	∨	.
	.	∨	.
214	.	DP-2EL	.
	.	.	.
217	.	DP-2EL.....	.
	.	.	.
220	.	SBEL-9	.
	.	∨	.
	.	∨	.
229	.	DP-2EL	.
	.	.	.
232	.	DP-2EL.....	.
	.	.	.
235	.	SBEL10	.
	.	.	.
244	.	DP-2EL.....	.
	.	.	.
247	.	SBEL11	.
	.	∨	.
	.	∨	.
256	.	DP-2EL	.
	.	.	.
259	.	DP-2EL.....	.
	.	.	.
262	.	SBEL12	.
	.	.	.
271	.	DP-2EL.....	.
	.	∨	.
	.	∨	.
274	.	DP-1EC	.
	.	.	.
277	.	SBEC-1	.
	.	∨	.
	.	∨	.
286	.	DP-1EC	.
	.	.	.
289	.	DP-1EC.....	.
	.	.	.
292	.	SBEC-2	.
	.	.	.

```

301 DP-1EC.....
      .
304      SBEC-3
      .
313 DP-1EC.....

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR UNDEVELOPED FAIRFAX CREEK BASIN
HEC1 (SCS) 100-YEAR RUNOFF (FC41.DAT)

5 IO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 5 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NO 300 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME
COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

*** **

```

*****
* DP-1EC *
*****

```

314 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
COMBINE FLOWS AT DP-1EC
FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

316 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION DP-1EC
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	1344.	*	1		1230	151	47.	*	1		1845	226	32.
1		0005	2	0.	*	1		0620	77	1217.	*	1		1235	152	47.	*	1		1850	227	32.
1		0010	3	0.	*	1		0625	78	1051.	*	1		1240	153	47.	*	1		1855	228	32.
1		0015	4	0.	*	1		0630	79	839.	*	1		1245	154	47.	*	1		1900	229	32.
1		0020	5	0.	*	1		0635	80	697.	*	1		1250	155	47.	*	1		1905	230	32.
1		0025	6	0.	*	1		0640	81	584.	*	1		1255	156	47.	*	1		1910	231	32.
1		0030	7	0.	*	1		0645	82	499.	*	1		1300	157	47.	*	1		1915	232	32.
1		0035	8	0.	*	1		0650	83	430.	*	1		1305	158	47.	*	1		1920	233	32.
1		0040	9	0.	*	1		0655	84	375.	*	1		1310	159	46.	*	1		1925	234	32.
1		0045	10	0.	*	1		0700	85	330.	*	1		1315	160	46.	*	1		1930	235	32.
1		0050	11	0.	*	1		0705	86	292.	*	1		1320	161	45.	*	1		1935	236	32.
1		0055	12	0.	*	1		0710	87	260.	*	1		1325	162	45.	*	1		1940	237	32.
1		0100	13	0.	*	1		0715	88	234.	*	1		1330	163	44.	*	1		1945	238	32.
1		0105	14	0.	*	1		0720	89	211.	*	1		1335	164	44.	*	1		1950	239	32.
1		0110	15	0.	*	1		0725	90	193.	*	1		1340	165	43.	*	1		1955	240	32.
1		0115	16	0.	*	1		0730	91	177.	*	1		1345	166	43.	*	1		2000	241	32.
1		0120	17	0.	*	1		0735	92	165.	*	1		1350	167	43.	*	1		2005	242	31.
1		0125	18	0.	*	1		0740	93	155.	*	1		1355	168	42.	*	1		2010	243	31.
1		0130	19	0.	*	1		0745	94	147.	*	1		1400	169	42.	*	1		2015	244	30.
1		0135	20	0.	*	1		0750	95	140.	*	1		1405	170	42.	*	1		2020	245	28.
1		0140	21	0.	*	1		0755	96	135.	*	1		1410	171	41.	*	1		2025	246	27.
1		0145	22	0.	*	1		0800	97	130.	*	1		1415	172	41.	*	1		2030	247	26.
1		0150	23	0.	*	1		0805	98	124.	*	1		1420	173	41.	*	1		2035	248	24.
1		0155	24	0.	*	1		0810	99	118.	*	1		1425	174	40.	*	1		2040	249	23.
1		0200	25	0.	*	1		0815	100	111.	*	1		1430	175	40.	*	1		2045	250	22.
1		0205	26	0.	*	1		0820	101	104.	*	1		1435	176	39.	*	1		2050	251	21.
1		0210	27	0.	*	1		0825	102	97.	*	1		1440	177	39.	*	1		2055	252	20.
1		0215	28	0.	*	1		0830	103	91.	*	1		1445	178	39.	*	1		2100	253	20.
1		0220	29	0.	*	1		0835	104	85.	*	1		1450	179	39.	*	1		2105	254	19.
1		0225	30	0.	*	1		0840	105	80.	*	1		1455	180	39.	*	1		2110	255	18.
1		0230	31	0.	*	1		0845	106	76.	*	1		1500	181	38.	*	1		2115	256	18.
1		0235	32	0.	*	1		0850	107	73.	*	1		1505	182	38.	*	1		2120	257	18.
1		0240	33	0.	*	1		0855	108	70.	*	1		1510	183	38.	*	1		2125	258	17.
1		0245	34	0.	*	1		0900	109	68.	*	1		1515	184	37.	*	1		2130	259	17.
1		0250	35	0.	*	1		0905	110	67.	*	1		1520	185	37.	*	1		2135	260	17.
1		0255	36	0.	*	1		0910	111	66.	*	1		1525	186	36.	*	1		2140	261	17.
1		0300	37	0.	*	1		0915	112	65.	*	1		1530	187	35.	*	1		2145	262	17.
1		0305	38	0.	*	1		0920	113	64.	*	1		1535	188	35.	*	1		2150	263	17.
1		0310	39	0.	*	1		0925	114	63.	*	1		1540	189	34.	*	1		2155	264	17.
1		0315	40	0.	*	1		0930	115	63.	*	1		1545	190	34.	*	1		2200	265	17.
1		0320	41	0.	*	1		0935	116	62.	*	1		1550	191	33.	*	1		2205	266	16.
1		0325	42	0.	*	1		0940	117	62.	*	1		1555	192	33.	*	1		2210	267	16.
1		0330	43	0.	*	1		0945	118	62.	*	1		1600	193	33.	*	1		2215	268	16.
1		0335	44	0.	*	1		0950	119	62.	*	1		1605	194	33.	*	1		2220	269	16.
1		0340	45	0.	*	1		0955	120	62.	*	1		1610	195	33.	*	1		2225	270	16.
1		0345	46	0.	*	1		1000	121	61.	*	1		1615	196	32.	*	1		2230	271	16.
1		0350	47	0.	*	1		1005	122	61.	*	1		1620	197	32.	*	1		2235	272	16.
1		0355	48	0.	*	1		1010	123	60.	*	1		1625	198	32.	*	1		2240	273	16.
1		0400	49	0.	*	1		1015	124	59.	*	1		1630	199	32.	*	1		2245	274	16.
1		0405	50	0.	*	1		1020	125	57.	*	1		1635	200	32.	*	1		2250	275	16.
1		0410	51	0.	*	1		1025	126	56.	*	1		1640	201	32.	*	1		2255	276	16.
1		0415	52	0.	*	1		1030	127	54.	*	1		1645	202	32.	*	1		2300	277	16.
1		0420	53	0.	*	1		1035	128	53.	*	1		1650	203	32.	*	1		2305	278	16.
1		0425	54	0.	*	1		1040	129	52.	*	1		1655	204	32.	*	1		2310	279	16.
1		0430	55	0.	*	1		1045	130	51.	*	1		1700	205	32.	*	1		2315	280	16.
1		0435	56	0.	*	1		1050	131	50.	*	1		1705	206	32.	*	1		2320	281	16.
1		0440	57	0.	*	1		1055	132	49.	*	1		1710	207	32.	*	1		2325	282	16.
1		0445	58	0.	*	1		1100	133	49.	*	1		1715	208	32.	*	1		2330	283	17.
1		0450	59	0.	*	1		1105	134	48.	*	1		1720	209	32.	*	1		2335	284	17.
1		0455	60	0.	*	1		1110	135	48.	*	1		1725	210	32.	*	1		2340	285	17.
1		0500	61	0.	*	1		1115	136	48.	*	1		1730	211	32.	*	1		2345	286	17.

1	0505	62	0.	*	1	1120	137	47.	*	1	1735	212	32.	*	1	2350	287	18.
1	0510	63	0.	*	1	1125	138	47.	*	1	1740	213	32.	*	1	2355	288	18.
1	0515	64	0.	*	1	1130	139	47.	*	1	1745	214	32.	*	2	0000	289	17.
1	0520	65	0.	*	1	1135	140	47.	*	1	1750	215	32.	*	2	0005	290	17.
1	0525	66	3.	*	1	1140	141	47.	*	1	1755	216	32.	*	2	0010	291	15.
1	0530	67	13.	*	1	1145	142	47.	*	1	1800	217	32.	*	2	0015	292	14.
1	0535	68	40.	*	1	1150	143	47.	*	1	1805	218	32.	*	2	0020	293	13.
1	0540	69	113.	*	1	1155	144	47.	*	1	1810	219	32.	*	2	0025	294	11.
1	0545	70	282.	*	1	1200	145	47.	*	1	1815	220	32.	*	2	0030	295	10.
1	0550	71	585.	*	1	1205	146	47.	*	1	1820	221	32.	*	2	0035	296	9.
1	0555	72	939.	*	1	1210	147	47.	*	1	1825	222	32.	*	2	0040	297	8.
1	0600	73	1231.	*	1	1215	148	47.	*	1	1830	223	32.	*	2	0045	298	7.
1	0605	74	1335.	*	1	1220	149	47.	*	1	1835	224	32.	*	2	0050	299	6.
1	0610	75	1395.	*	1	1225	150	47.	*	1	1840	225	32.	*	2	0055	300	5.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)					
1395.	6.17		254.	80.	77.	77.	
		(INCHES)	1.634	2.067	2.067	2.067	
		(AC-FT)	126.	160.	160.	160.	

CUMULATIVE AREA = 1.45 SQ MI

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBEU-1	176.	5.92	26.	8.	8.	.15		
ROUTED TO	DP-1EU	151.	6.17	25.	8.	8.	.15		
HYDROGRAPH AT	SBEU-2	166.	6.17	32.	10.	10.	.19		
2 COMBINED AT	DP-1EU	317.	6.17	58.	18.	18.	.33		
HYDROGRAPH AT	SBEU-3	127.	6.00	20.	6.	6.	.11		
ROUTED TO	DP-1EU	125.	6.17	20.	6.	6.	.11		
2 COMBINED AT	DP-1EU	442.	6.17	78.	25.	24.	.44		
HYDROGRAPH AT	SBEU-4	185.	6.08	35.	11.	11.	.20		
2 COMBINED AT	DP-1EU	625.	6.17	113.	36.	34.	.64		
HYDROGRAPH AT	SBEU-5	76.	6.00	13.	4.	4.	.07		

+	2 COMBINED AT	DP-1EU	695.	6.08	126.	40.	38.	.72
	HYDROGRAPH AT	SBEU-6	101.	6.08	19.	6.	6.	.11
+	ROUTED TO	DP-1EU	99.	6.17	19.	6.	6.	.11
+	2 COMBINED AT	DP-1EU	793.	6.17	144.	46.	44.	.83
+	ROUTED TO	DP-1EL	793.	6.17	145.	46.	44.	.83
+	HYDROGRAPH AT	SBEL-6	69.	6.00	10.	3.	3.	.06
+	2 COMBINED AT	DP-1EL	845.	6.17	155.	49.	47.	.89
+	HYDROGRAPH AT	SBEL-1	32.	6.00	5.	2.	1.	.03
+	ROUTED TO	DP-1EL	32.	6.08	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	874.	6.17	160.	51.	49.	.91
+	HYDROGRAPH AT	SBEL-2	27.	6.00	4.	1.	1.	.03
+	ROUTED TO	DP-1EL	26.	6.17	4.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	900.	6.17	164.	52.	50.	.94
+	HYDROGRAPH AT	SBEL-3	36.	6.00	6.	2.	2.	.03
+	ROUTED TO	DP-1EL	35.	6.08	6.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	932.	6.17	170.	54.	52.	.97
+	HYDROGRAPH AT	SBEL-4	30.	6.00	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	30.	6.08	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	960.	6.17	175.	55.	53.	1.00
+	HYDROGRAPH AT	SBEL-5	39.	5.92	6.	2.	2.	.03
+	ROUTED TO	DP-1EL	39.	6.08	6.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	997.	6.17	181.	57.	55.	1.03

+	HYDROGRAPH AT	SBEL-7	32.	6.00	5.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	31.	6.00	5.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	1027.	6.08	186.	59.	57.	1.06
	ROUTED TO							
+		DP-2EL	1026.	6.17	187.	59.	57.	1.06
	HYDROGRAPH AT							
+		SBEL-8	34.	6.00	5.	2.	2.	.03
	ROUTED TO							
+		DP-2EL	34.	6.17	5.	2.	2.	.03
	2 COMBINED AT							
+		DP-2EL	1061.	6.17	192.	61.	59.	1.09
	HYDROGRAPH AT							
+		SBEL-9	77.	6.00	12.	4.	4.	.07
	ROUTED TO							
+		DP-2EL	76.	6.08	12.	4.	4.	.07
	2 COMBINED AT							
+		DP-2EL	1131.	6.17	205.	65.	62.	1.16
	HYDROGRAPH AT							
+		SBEL10	56.	5.92	8.	2.	2.	.04
	2 COMBINED AT							
+		DP-2EL	1163.	6.17	212.	67.	65.	1.21
	HYDROGRAPH AT							
+		SBEL11	57.	6.00	9.	3.	3.	.05
	ROUTED TO							
+		DP-2EL	56.	6.08	9.	3.	3.	.05
	2 COMBINED AT							
+		DP-2EL	1218.	6.17	221.	70.	67.	1.25
	HYDROGRAPH AT							
+		SBEL12	106.	6.08	19.	6.	6.	.11
	2 COMBINED AT							
+		DP-2EL	1317.	6.17	239.	76.	73.	1.36
	ROUTED TO							
+		DP-1EC	1313.	6.17	239.	76.	73.	1.36
	HYDROGRAPH AT							
+		SBEC-1	18.	5.92	2.	1.	1.	.01
	ROUTED TO							
+		DP-1EC	17.	6.00	2.	1.	1.	.01
	2 COMBINED AT							
+		DP-1EC	1327.	6.17	242.	76.	74.	1.37
	HYDROGRAPH AT							
+		SBEC-2	26.	6.08	5.	1.	1.	.03

+	2 COMBINED AT	DP-1EC	1351.	6.17	246.	78.	75.	1.40
+	HYDROGRAPH AT	SBEC-3	49.	6.00	8.	3.	2.	.05
+	2 COMBINED AT	DP-1EC	1395.	6.17	254.	80.	77.	1.45

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

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) --FEB 1, 1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED FAIRFAX CREEK BASIN									
3	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC42.DAT)									
	*DIAGRAM										
4	IT	5	0	0	300						
5	ID	5	1								
6	PG	2	4.4								
7	PG	1	0								
8	IN	15									
9	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
10	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0370	.0460	.0530	.0600
11	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
12	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
13	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
14	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
15	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
16	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
17	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
18	PC	.9938	.9950	.9963	.9975	1.0000					
19	KK	SBEU-1									
20	KM	RUNOFF FROM SBEU-1									
21	BA	0.1461									
22	PR	1									
23	PW	1									
24	PT	2									
25	PW	1									
26	LS	0	78.8								
27	UD	0.15									
28	KK	DP-1EU									
29	KM	ROUTE SBEU-1 TO DP-1EU									
30	RK	6600	0.0300	0.016	0	TRAP	8	10			
31	KK	SBEU-2									

2

```

32      KM      RUNOFF FROM SBEU-2
33      BA      0.1851
34      PR      1
35      PW      1
36      PT      2
37      FW      1
38      LS      0      83.1
39      UD      0.21

40      KK      DP-1EU
41      KM      COMBINE FLOWS AT DP-1EU
42      HC      2

43      KK      SBEU-3
44      KM      RUNOFF FROM SBEU-3
45      BA      0.1117
46      PR      1
47      PW      1
48      PT      2
49      FW      1

```

1

HEC-1 INPUT

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
50      LS      0      80.5
51      UD      0.16

52      KK      DP-1EU
53      KM      ROUTE SBEU-3 TO DP-1EU
54      RK      3400  0.0290  0.016      0      TRAP      8      10

55      KK      DP-1EU
56      KM      COMBINE FLOWS AT DP-1EU
57      HC      2

58      KK      SBEU-4
59      KM      RUNOFF FROM SBEU-4
60      BA      0.2019
61      PR      1
62      PW      1
63      PT      2
64      FW      1
65      LS      0      78.7
66      UD      0.22

67      KK      DP-1EU
68      KM      COMBINE FLOWS AT DP-1EU
69      HC      2

70      KK      SBEU-5
71      KM      RUNOFF FROM SBEU-5
72      BA      0.0741
73      PR      1
74      PW      1
75      PT      2
76      FW      1
77      LS      0      69.0
78      UD      0.16

79      KK      DP-1EU
80      KM      COMBINE FLOWS AT DP-1EU
81      HC      2

82      KK      SBEU-6
83      KM      RUNOFF FROM SBEU-6
84      BA      0.1064

```


85 YK 1
 86 PW 1
 87 PT 2
 88 PW 1
 89 LS 0 77.1
 90 UD 0.20

 91 KK DP-1EU
 92 KM ROUTE SBEU-6 TO DP-1EU
 93 RK 1000 0.0400 0.016 0 TRAP 8 10
 HEC-1 INPUT

1

PAGE 3

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

94 KK DP-1EU
 95 KM COMBINE FLOWS AT DP-1EU
 96 HC 2

 97 KK DP-1EL
 98 KM ROUTE DP-1EU TO DP-1EL
 99 RK 2000 0.0300 0.016 0 TRAP 8 10

 100 KK SBEL-6
 101 KM RUNOFF FROM SBEL-6
 102 BA 0.0597
 103 PR 1
 104 PW 1
 105 PT 2
 106 PW 1
 107 LS 0 92.0
 108 UD 0.13

 109 KK DP-1EL
 110 KM COMBINE FLOWS AT DP-1EL
 111 HC 2

 112 KK SBEL-1
 113 KM RUNOFF FROM SBEL-1
 114 BA 0.0282
 115 PR 1
 116 PW 1
 117 PT 2
 118 PW 1
 119 LS 0 75.0
 120 UD 0.14

 121 KK DP-1EL
 122 KM ROUTE SBEL-1 TO DP-1EL
 123 RK 1600 0.0380 0.016 0 TRAP 8 10

 124 KK DP-1EL
 125 KM COMBINE FLOWS AT DP-1EL
 126 HC 2

 127 KK SBEL-2
 128 KM RUNOFF FROM SBEL-2
 129 BA 0.0251
 130 PR 1
 131 PW 1
 132 PT 2
 133 PW 1
 134 LS 0 80.2
 135 UD 0.13

1

HEC-1 INPUT

PAGE 4

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

```

136 KK DP-1EL
137 KM ROUTE SBEL-2 TO DP-1EL
138 RK 2000 0.0400 0.016 0 TRAP 8 10

139 KK DP-1EL
140 KM COMBINE FLOWS AT DP-1EL
141 HC 2

142 KK SBEL-3
143 KM RUNOFF FROM SBEL-3
144 BA 0.0320
145 PR 1
146 PW 1
147 PT 2
148 FW 1
149 LS 0 90.0
150 UD 0.12

151 KK DP-1EL
152 KM ROUTE SBEL-3 TO DP-1EL
153 RK 1000 0.0500 0.016 0 TRAP 8 10

154 KK DP-1EL
155 KM COMBINE FLOWS AT DP-1EL
156 HC 2

157 KK SBEL-4
158 KM RUNOFF FROM SBEL-4
159 BA 0.0289
160 PR 1
161 PW 1
162 PT 2
163 FW 1
164 LS 0 85.0
165 UD 0.12

166 KK DP-1EL
167 KM ROUTE SBEL-4 TO DP-1EL
168 RK 1000 0.0500 0.016 0 TRAP 8 10

169 KK DP-1EL
170 KM COMBINE FLOWS AT DP-1EL
171 HC 2

172 KK SBEL-5
173 KM RUNOFF FROM SBEL-5
174 BA 0.0334
175 PR 1
176 PW 1
177 PT 2
178 FW 1
179 LS 0 88.0
180 UD 0.12

```

HEC-1 INPUT

PAGE 5

1

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

```

181 KK DP-1EL
182 KM ROUTE SBEL-5 TO DP-1EL
183 RK 2200 0.0360 0.016 0 TRAP 8 10

184 KK DP-1EL

```

```

185 KM COMBINE FLOWS AT DP-1EL
186 HC 2

187 KK SBEL-7
188 KM RUNOFF FROM SBEL-7
189 BA 0.0294
190 PR 1
191 PW 1
192 PT 2
193 PW 1
194 LS 0 86.1
195 UD 0.12

196 KK DP-1EL
197 KM ROUTE SBEL-7 TO DP-1EL
198 RK 700 0.0710 0.016 0 TRAP 8 10

199 KK DP-1EL
200 KM COMBINE FLOWS AT DP-1EL
201 HC 2

202 KK DP-2EL
203 KM ROUTE DP-1EL TO DP-2EL
204 RK 3900 0.0240 0.045 0 TRAP 10 3

205 KK SBEL-8
206 KM RUNOFF FROM SBEL-8
207 BA 0.0302
208 PR 1
209 PW 1
210 PT 2
211 PW 1
212 LS 0 75.0
213 UD 0.13

214 KK DP-2EL
215 KM ROUTE SBEL-8 TO DP-2EL
216 RK 2900 0.0250 0.045 0 TRAP 10 3

217 KK DP-2EL
218 KM COMBINE FLOWS AT DP-2EL
219 HC 2

220 KK SBEL-9
221 KM RUNOFF FROM SBEL-9
222 BA 0.0694
223 PR 1
224 PW 1
225 PT 2

```

HEC-1 INPUT

PAGE 6

```

1
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
226 PW 1
227 LS 0 77.1
228 UD 0.14

229 KK DP-2EL
230 KM ROUTE SBEL-9 TO DP-2EL
231 RK 1300 0.0180 0.045 0 TRAP 10 3

232 KK DP-2EL
233 KM COMBINE FLOWS AT DP-2EL
234 HC 2

235 KK SBEL10

```

236	KM	RUNOFF FROM SBEL-10					
237	BA	0.0434					
238	PR	1					
239	PW	1					
240	PT	2					
241	FW	1					
242	LS	0	76.0				
243	UD	0.12					
244	KK	DP-2EL					
245	KM	COMBINE FLOWS AT DP-2EL					
246	HC	2					
247	KK	SBEL11					
248	KM	RUNOFF FROM SBEL-11					
249	BA	0.0494					
250	PR	1					
251	PW	1					
252	PT	2					
253	FW	1					
254	LS	0	84.9				
255	UD	0.12					
256	KK	DP-2EL					
257	KM	ROUTE SBEL-11 TO DP-2EL					
258	RK	2900	0.0250	0.045	0	TRAP 10 3	
259	KK	DP-2EL					
260	KM	COMBINE FLOWS AT DP-2EL					
261	HC	2					
262	KK	SBEL12					
263	KM	RUNOFF FROM SBEL-12					
264	BA	0.1063					
265	PR	1					
266	PW	1					
267	PT	2					
268	FW	1					
269	LS	0	77.4				
270	UD	0.16					

HEC-1 INPUT

PAGE 7

1

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

271	KK	DP-2EL				
272	KM	COMBINE FLOWS AT DP-2EL				
273	HC	2				
274	KK	DP-1EC				
275	KM	ROUTE DP-2EL TO DP-1EC				
276	RK	350	0.0460	0.045	0	TRAP 10 3
277	KK	SBEC-1				
278	KM	RUNOFF FROM SBEC-1				
279	BA	0.0138				
280	PR	1				
281	PW	1				
282	PT	2				
283	FW	1				
284	LS	0	80.0			
285	UD	0.11				
286	KK	DP-1EC				
287	KM	ROUTE SBEC-1 TO DP-1EC				
288	RK	1100	0.0180	0.016	0	TRAP 8 10

```

289      KK  DP-1EC
290      KM      COMBINE FLOWS AT DP-1EC
291      HC      2

292      KK  SBEC-2
293      KM      RUNOFF FROM BASIN SBEC-2
294      BA  0.0263
295      PR      1
296      PW      1
297      PT      2
298      PW      1
299      LS      0      69.0
300      UD      0.13

301      KK  DP-1EC
302      KM      COMBINE FLOWS AT DP-1EC
303      HC      2

304      KK  SBEC-3
305      KM      RUNOFF FROM SBEC-3
306      BA  0.0470
307      PR      1
308      PW      1
309      PT      2
310      PW      1
311      LS      0      72.0
312      UD      0.15

```

HEC-1 INPUT

1

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

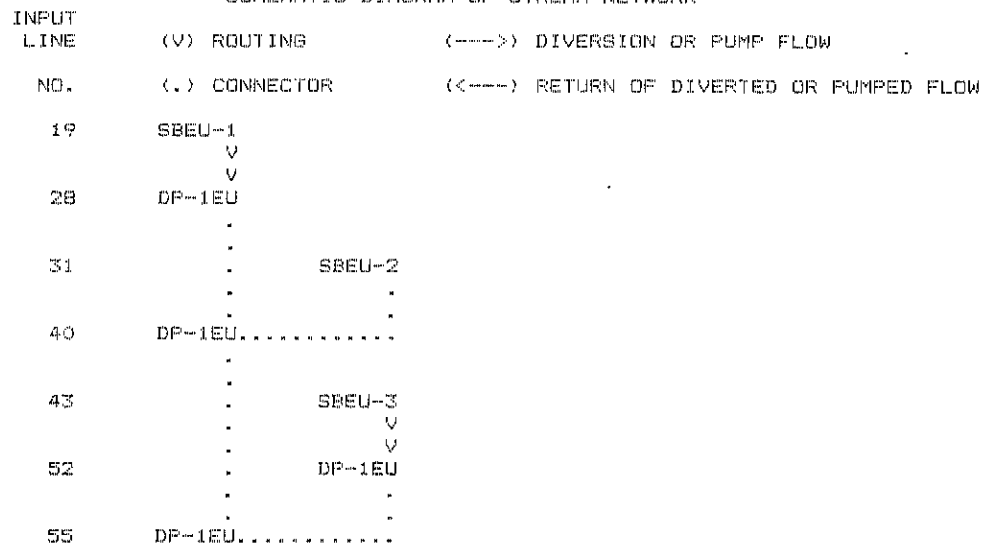
```

313      KK  DP-1EC
314      KO      2
315      KM      COMBINE FLOWS AT DP-1EC
316      HC      2
317      KM      FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK
318      ZZ

```

1

SCHMATIC DIAGRAM OF STREAM NETWORK



58	.	SBEU-4	.
	.		.
67	DP-1EU.....		.
	.		.
70	.	SBEU-5	.
	.		.
79	DP-1EU.....		.
	.		.
82	.	SBEU-6	.
	.	V	.
	.	V	.
91	.	DP-1EU	.
	.		.
94	DP-1EU.....		.
	V		.
	V		.
97	DP-1EL		.
	.		.
100	.	SBEL-6	.
	.		.
109	DP-1EL.....		.
	.		.
112	.	SBEL-1	.
	.	V	.
	.	V	.
121	.	DP-1EL	.
	.		.
124	DP-1EL.....		.
	.		.
127	.	SBEL-2	.
	.	V	.
	.	V	.
136	.	DP-1EL	.
	.		.
139	DP-1EL.....		.
	.		.
142	.	SBEL-3	.
	.	V	.
	.	V	.
151	.	DP-1EL	.
	.		.
154	DP-1EL.....		.
	.		.
157	.	SBEL-4	.
	.	V	.
	.	V	.
166	.	DP-1EL	.
	.		.
169	DP-1EL.....		.
	.		.

172	.	SBEL-5
	.	V
181	.	DP-1EL
	.	V
184	DP-1EL.....	
	.	
187	.	SBEL-7
	.	V
	.	V
196	.	DP-1EL
	.	V
199	DP-1EL.....	
	.	V
	.	V
202	DP-2EL	
	.	
205	.	SBEL-8
	.	V
	.	V
214	.	DP-2EL
	.	V
217	DP-2EL.....	
	.	
220	.	SBEL-9
	.	V
	.	V
229	.	DP-2EL
	.	V
232	DP-2EL.....	
	.	
235	.	SBEL10
	.	V
244	DP-2EL.....	
	.	
247	.	SBEL11
	.	V
	.	V
256	.	DP-2EL
	.	V
259	DP-2EL.....	
	.	
262	.	SBEL12
	.	V
271	DP-2EL.....	
	.	V
	.	V
274	DP-1EC	
	.	
277	.	SBEC-1
	.	V

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 *
 313 KK * DP-1EC *
 *

314 KD OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 COMBINE FLOWS AT DP-1EC
 FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

316 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION DP-1EC
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	686.	*	1		1230	151	50.	*	1		1845	226	34.
1		0005	2	0.	*	1		0620	77	517.	*	1		1235	152	50.	*	1		1850	227	34.
1		0010	3	0.	*	1		0625	78	418.	*	1		1240	153	50.	*	1		1855	228	34.
1		0015	4	0.	*	1		0630	79	345.	*	1		1245	154	50.	*	1		1900	229	34.
1		0020	5	0.	*	1		0635	80	292.	*	1		1250	155	50.	*	1		1905	230	34.
1		0025	6	0.	*	1		0640	81	254.	*	1		1255	156	50.	*	1		1910	231	34.
1		0030	7	0.	*	1		0645	82	229.	*	1		1300	157	49.	*	1		1915	232	34.
1		0035	8	0.	*	1		0650	83	212.	*	1		1305	158	48.	*	1		1920	233	34.
1		0040	9	0.	*	1		0655	84	196.	*	1		1310	159	47.	*	1		1925	234	34.

1	0045	10	0.	*	1	0700	85	181.	*	1	1315	160	46.	*	1	1930	235	34.
1	0050	11	0.	*	1	0705	86	166.	*	1	1320	161	45.	*	1	1935	236	34.
1	0055	12	0.	*	1	0710	87	154.	*	1	1325	162	45.	*	1	1940	237	34.
1	0100	13	0.	*	1	0715	88	145.	*	1	1330	163	44.	*	1	1945	238	34.
1	0105	14	0.	*	1	0720	89	139.	*	1	1335	164	44.	*	1	1950	239	34.
1	0110	15	0.	*	1	0725	90	135.	*	1	1340	165	44.	*	1	1955	240	33.
1	0115	16	0.	*	1	0730	91	132.	*	1	1345	166	44.	*	1	2000	241	31.
1	0120	17	0.	*	1	0735	92	131.	*	1	1350	167	44.	*	1	2005	242	30.
1	0125	18	0.	*	1	0740	93	130.	*	1	1355	168	43.	*	1	2010	243	28.
1	0130	19	0.	*	1	0745	94	130.	*	1	1400	169	43.	*	1	2015	244	25.
1	0135	20	0.	*	1	0750	95	128.	*	1	1405	170	43.	*	1	2020	245	23.
1	0140	21	0.	*	1	0755	96	123.	*	1	1410	171	42.	*	1	2025	246	22.
1	0145	22	0.	*	1	0800	97	114.	*	1	1415	172	42.	*	1	2030	247	21.
1	0150	23	0.	*	1	0805	98	104.	*	1	1420	173	41.	*	1	2035	248	20.
1	0155	24	0.	*	1	0810	99	94.	*	1	1425	174	41.	*	1	2040	249	19.
1	0200	25	0.	*	1	0815	100	85.	*	1	1430	175	41.	*	1	2045	250	18.
1	0205	26	0.	*	1	0820	101	78.	*	1	1435	176	41.	*	1	2050	251	18.
1	0210	27	0.	*	1	0825	102	74.	*	1	1440	177	41.	*	1	2055	252	18.
1	0215	28	0.	*	1	0830	103	71.	*	1	1445	178	41.	*	1	2100	253	18.
1	0220	29	0.	*	1	0835	104	69.	*	1	1450	179	40.	*	1	2105	254	17.
1	0225	30	0.	*	1	0840	105	67.	*	1	1455	180	40.	*	1	2110	255	17.
1	0230	31	0.	*	1	0845	106	66.	*	1	1500	181	39.	*	1	2115	256	17.
1	0235	32	0.	*	1	0850	107	66.	*	1	1505	182	38.	*	1	2120	257	17.
1	0240	33	0.	*	1	0855	108	66.	*	1	1510	183	38.	*	1	2125	258	17.
1	0245	34	0.	*	1	0900	109	66.	*	1	1515	184	37.	*	1	2130	259	17.
1	0250	35	0.	*	1	0905	110	66.	*	1	1520	185	36.	*	1	2135	260	17.
1	0255	36	0.	*	1	0910	111	65.	*	1	1525	186	35.	*	1	2140	261	17.
1	0300	37	0.	*	1	0915	112	65.	*	1	1530	187	35.	*	1	2145	262	17.
1	0305	38	0.	*	1	0920	113	66.	*	1	1535	188	34.	*	1	2150	263	17.
1	0310	39	0.	*	1	0925	114	66.	*	1	1540	189	34.	*	1	2155	264	17.
1	0315	40	0.	*	1	0930	115	66.	*	1	1545	190	34.	*	1	2200	265	17.
1	0320	41	0.	*	1	0935	116	66.	*	1	1550	191	34.	*	1	2205	266	17.
1	0325	42	0.	*	1	0940	117	66.	*	1	1555	192	34.	*	1	2210	267	17.
1	0330	43	0.	*	1	0945	118	66.	*	1	1600	193	34.	*	1	2215	268	17.
1	0335	44	0.	*	1	0950	119	65.	*	1	1605	194	34.	*	1	2220	269	17.
1	0340	45	0.	*	1	0955	120	64.	*	1	1610	195	34.	*	1	2225	270	17.
1	0345	46	0.	*	1	1000	121	63.	*	1	1615	196	34.	*	1	2230	271	17.
1	0350	47	0.	*	1	1005	122	61.	*	1	1620	197	34.	*	1	2235	272	17.
1	0355	48	0.	*	1	1010	123	58.	*	1	1625	198	34.	*	1	2240	273	17.
1	0400	49	0.	*	1	1015	124	56.	*	1	1630	199	34.	*	1	2245	274	17.
1	0405	50	0.	*	1	1020	125	54.	*	1	1635	200	34.	*	1	2250	275	17.
1	0410	51	0.	*	1	1025	126	52.	*	1	1640	201	34.	*	1	2255	276	17.
1	0415	52	0.	*	1	1030	127	51.	*	1	1645	202	34.	*	1	2300	277	17.
1	0420	53	0.	*	1	1035	128	51.	*	1	1650	203	34.	*	1	2305	278	17.
1	0425	54	0.	*	1	1040	129	50.	*	1	1655	204	34.	*	1	2310	279	17.
1	0430	55	0.	*	1	1045	130	50.	*	1	1700	205	34.	*	1	2315	280	17.
1	0435	56	0.	*	1	1050	131	50.	*	1	1705	206	34.	*	1	2320	281	17.
1	0440	57	0.	*	1	1055	132	50.	*	1	1710	207	34.	*	1	2325	282	18.
1	0445	58	0.	*	1	1100	133	50.	*	1	1715	208	34.	*	1	2330	283	20.
1	0450	59	0.	*	1	1105	134	50.	*	1	1720	209	34.	*	1	2335	284	21.
1	0455	60	0.	*	1	1110	135	50.	*	1	1725	210	34.	*	1	2340	285	21.
1	0500	61	0.	*	1	1115	136	50.	*	1	1730	211	34.	*	1	2345	286	20.
1	0505	62	0.	*	1	1120	137	50.	*	1	1735	212	34.	*	1	2350	287	19.
1	0510	63	1.	*	1	1125	138	50.	*	1	1740	213	34.	*	1	2355	288	17.
1	0515	64	1.	*	1	1130	139	50.	*	1	1745	214	34.	*	2	0000	289	15.
1	0520	65	5.	*	1	1135	140	50.	*	1	1750	215	34.	*	2	0005	290	12.
1	0525	66	55.	*	1	1140	141	50.	*	1	1755	216	34.	*	2	0010	291	10.
1	0530	67	325.	*	1	1145	142	50.	*	1	1800	217	34.	*	2	0015	292	9.
1	0535	68	902.	*	1	1150	143	50.	*	1	1805	218	34.	*	2	0020	293	8.
1	0540	69	1577.	*	1	1155	144	50.	*	1	1810	219	34.	*	2	0025	294	8.
1	0545	70	2034.	*	1	1200	145	50.	*	1	1815	220	34.	*	2	0030	295	4.
1	0550	71	2461.	*	1	1205	146	50.	*	1	1820	221	34.	*	2	0035	296	4.
1	0555	72	2447.	*	1	1210	147	50.	*	1	1825	222	34.	*	2	0040	297	4.
1	0600	73	2030.	*	1	1215	148	50.	*	1	1830	223	34.	*	2	0045	298	4.
1	0605	74	1497.	*	1	1220	149	50.	*	1	1835	224	31.	*	2	0050	299	4.
1	0610	75	1051.	*	1	1225	150	50.	*	1	1840	225	34.	*	2	0055	300	4.

PEAK FLOW (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
2461.	5.83	303.	303.	93.	90.	90.
		(INCHES)	1.949	2.398	2.398	2.398
		(AC-FT)	150.	185.	185.	185.
CUMULATIVE AREA =			1.45 SQ MI			

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBEU-1	272.	5.75	29.	9.	9.	.15		
ROUTED TO	DP-1EU	265.	5.83	29.	9.	9.	.15		
HYDROGRAPH AT	SBEU-2	375.	5.83	43.	13.	13.	.19		
2 COMBINED AT	DP-1EU	641.	5.83	72.	22.	21.	.33		
HYDROGRAPH AT	SBEU-3	219.	5.83	24.	7.	7.	.11		
ROUTED TO	DP-1EU	217.	5.83	24.	7.	7.	.11		
2 COMBINED AT	DP-1EU	858.	5.83	96.	29.	28.	.44		
HYDROGRAPH AT	SBEU-4	338.	5.83	40.	12.	12.	.20		
2 COMBINED AT	DP-1EU	1196.	5.83	136.	42.	40.	.64		
HYDROGRAPH AT	SBEU-5	90.	5.83	9.	3.	3.	.07		
2 COMBINED AT	DP-1EU	1287.	5.83	145.	45.	43.	.72		
HYDROGRAPH AT	SBEU-6	174.	5.83	20.	6.	6.	.11		
ROUTED TO	DP-1EU	171.	5.83	20.	6.	6.	.11		
2 COMBINED AT	DP-1EU	1457.	5.83	165.	51.	49.	.83		
ROUTED TO	DP-1EU	1411.	5.83	165.	51.	49.	.83		

+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06
+	2 COMBINED AT	DP-1EL	1567.	5.83	184.	57.	55.	.89
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	1613.	5.83	189.	58.	56.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1664.	5.83	194.	60.	58.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1745.	5.83	203.	63.	60.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1810.	5.83	211.	65.	62.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1896.	5.83	220.	68.	65.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1963.	5.83	228.	70.	67.	1.06
+	ROUTED TO	DP-2EL	1911.	5.92	231.	71.	68.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03

+	ROUTED TO	DP-2EL	50.	5.92	5.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	1961.	5.92	237.	73.	70.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	123.	5.83	13.	4.	4.	.07
+	2 COMBINED AT	DP-2EL	2069.	5.92	250.	77.	74.	1.16
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04
+	2 COMBINED AT	DP-2EL	2111.	5.92	257.	79.	76.	1.21
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05
+	ROUTED TO	DP-2EL	115.	5.83	13.	4.	4.	.05
+	2 COMBINED AT	DP-2EL	2220.	5.92	270.	83.	80.	1.25
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11
+	2 COMBINED AT	DP-2EL	2359.	5.92	290.	89.	86.	1.36
+	ROUTED TO	DP-1EC	2359.	5.92	290.	89.	86.	1.36
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01
+	ROUTED TO	DP-1EC	28.	5.75	3.	1.	1.	.01
+	2 COMBINED AT	DP-1EC	2378.	5.92	293.	90.	87.	1.37
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03
+	2 COMBINED AT	DP-1EC	2399.	5.92	297.	91.	88.	1.40
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05
+	2 COMBINED AT	DP-1EC	2461.	5.83	300.	93.	90.	1.45

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

1

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR UNDEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC43.DAT)									
	#DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8630	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	FR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	76.0								
28	UD	0.33									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.045	0	TRAP	8	10			
32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	FR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	76.0								
40	UD	0.51									
41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									

3

44 KK SBEU-3
 45 KM RUNOFF FROM SBEU-3
 46 BA 0.1117
 47 PR 1
 48 PW 1
 49 PT 2

HEC-1 INPUT

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

50 FW 1
 51 LS 0 76.0
 52 UD 0.36

 53 KK DP-1EU
 54 KM ROUTE SBEU-3 TO DP-1EU
 55 RK 3400 0.0290 0.045 0 TRAP 8 10

 56 KK DP-1EU
 57 KM COMBINE FLOWS AT DP-1EU
 58 HC 2

 59 KK SBEU-4
 60 KM RUNOFF FROM SBEU-4
 61 BA 0.2019
 62 PR 1
 63 PW 1
 64 PT 2
 65 PW 1
 66 LS 0 76.0
 67 UD 0.50

 68 KK DP-1EU
 69 KM COMBINE FLOWS AT DP-1EU
 70 HC 2

 71 KK SBEU-5
 72 KM RUNOFF FROM SBEU-5
 73 BA 0.0741
 74 PR 1
 75 PW 1
 76 PT 2
 77 PW 1
 78 LS 0 76.0
 79 UD 0.42

 80 KK DP-1EU
 81 KM COMBINE FLOWS AT DP-1EU
 82 HC 2

 83 KK SBEU-6
 84 KM RUNOFF FROM SBEU-6
 85 BA 0.1064
 86 PR 1
 87 PW 1
 88 PT 2
 89 PW 1
 90 LS 0 76.0
 91 UD 0.48

HEC-1 INPUT

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

92 KK DP-1EU
 93 KM ROUTE SBEU-6 TO DP-1EU

74	RK	1000	0.0400	0.040	0	TRAP	8	10
95	KK	DP-1EU						
96	KM	COMBINE FLOWS AT DP-1EU						
97	HC	2						
98	KK	DP-1EL						
99	KM	ROUTE DP-1EU TO DP-1EL						
100	RK	2000	0.0300	0.016	0	TRAP	8	10
101	KK	SBEL-6						
102	KM	RUNOFF FROM SBEL-6						
103	BA	0.0597						
104	PR	1						
105	PW	1						
106	PT	2						
107	PW	1						
108	LS	0	92.0					
109	UD	0.13						
110	KK	DP-1EL						
111	KM	COMBINE FLOWS AT DP-1EL						
112	HC	2						
113	KK	SBEL-1						
114	KM	RUNOFF FROM SBEL-1						
115	BA	0.0282						
116	PR	1						
117	PW	1						
118	PT	2						
119	PW	1						
120	LS	0	75.0					
121	UD	0.14						
122	KK	DP-1EL						
123	KM	ROUTE SBEL-1 TO DP-1EL						
124	RK	1600	0.0380	0.016	0	TRAP	10	3
125	KK	DP-1EL						
126	KM	COMBINE FLOWS AT DP-1EL						
127	HC	2						
128	KK	SBEL-2						
129	KM	RUNOFF FROM SBEL-2						
130	BA	0.0251						
131	PR	1						
132	PW	1						
133	PT	2						
134	PW	1						
135	LS	0	80.2					
136	UD	0.13						

HEC-1 INPUT

PAGE 4

1

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

137	KK	DP-1EL						
138	KM	ROUTE SBEL-2 TO DP-1EL						
139	RK	2000	0.0400	0.016	0	TRAP	8	10
140	KK	DP-1EL						
141	KM	COMBINE FLOWS AT DP-1EL						
142	HC	2						
143	KK	SBEL-3						
144	KM	RUNOFF FROM SBEL-3						

145	BA	0.0320							
146	PR	1							
147	PW	1							
148	PT	2							
149	PW	1							
150	LS	0	90.0						
151	UD	0.12							
152	KK	DP-1EL							
153	KM	ROUTE SBEL-3 TO DP-1EL							
154	RK	1000	0.0500	0.016	0	TRAP	8	10	
155	KK	DP-1EL							
156	KM	COMBINE FLOWS AT DP-1EL							
157	HC	2							
158	KK	SBEL-4							
159	KM	RUNOFF FROM SBEL-4							
160	BA	0.0289							
161	PR	1							
162	PW	1							
163	PT	2							
164	PW	1							
165	LS	0	85.0						
166	UD	0.12							
167	KK	DP-1EL							
168	KM	ROUTE SBEL-4 TO DP-1EL							
169	RK	1000	0.0500	0.016	0	TRAP	8	10	
170	KK	DP-1EL							
171	KM	COMBINE FLOWS AT DP-1EL							
172	HC	2							
173	KK	SBEL-5							
174	KM	RUNOFF FROM SBEL-5							
175	BA	0.0334							
176	PR	1							
177	PW	1							
178	PT	2							
179	PW	1							
180	LS	0	88.0						
181	UD	0.12							

1

HEC-1 INPUT

PAGE 5

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

182	KK	DP-1EL							
183	KM	ROUTE SBEL-5 TO DP-1EL							
184	RK	2200	0.0360	0.016	0	TRAP	8	10	
185	KK	DP-1EL							
186	KM	COMBINE FLOWS AT DP-1EL							
187	HC	2							
188	KK	SBEL-7							
189	KM	RUNOFF FROM SBEL-7							
190	BA	0.0294							
191	PR	1							
192	PW	1							
193	PT	2							
194	PW	1							
195	LS	0	86.1						
196	UD	0.12							

302	FW	1	
303	LS	0	69.0
304	UD	0.13	
305	KK	SBEC-3	
306	KM		RUNOFF FROM SBEC-3
307	BA	0.0470	
308	PR	1	
309	FW	1	
310	PT	2	
311	FW	1	
312	LS	0	72.0
313	UD	0.15	
314	ZZ		

1

SCHMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE NO. (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

20  SBEU-1
    V
    V
29  DP-1EU
    .
    .
32  .          SBEU-2
    .          .
    .          .
41  DP-1EU.....
    .
    .
44  .          SBEU-3
    .          V
    .          V
53  .          DP-1EU
    .          .
    .          .
56  DP-1EU.....
    .
    .
59  .          SBEU-4
    .          .
    .          .
68  DP-1EU.....
    .
    .
71  .          SBEU-5
    .          .
    .          .
80  DP-1EU.....
    .
    .
83  .          SBEU-6
    .          V
    .          V
92  .          DP-1EU
    .          .
    .          .
95  DP-1EU.....
    V
    V
98  DP-1EL
    .
    .
  
```

101	.	SBEL-0	.
	.		.
110	DP-1EL.....		.
	.		.
113	.	SBEL-1	.
	.	∨	.
	.	∨	.
122	.	DP-1EL	.
	.		.
125	DP-1EL.....		.
	.		.
128	.	SBEL-2	.
	.	∨	.
	.	∨	.
137	.	DP-1EL	.
	.		.
140	DP-1EL.....		.
	.		.
143	.	SBEL-3	.
	.	∨	.
	.	∨	.
152	.	DP-1EL	.
	.		.
155	DP-1EL.....		.
	.		.
158	.	SBEL-4	.
	.	∨	.
	.	∨	.
167	.	DP-1EL	.
	.		.
170	DP-1EL.....		.
	.		.
173	.	SBEL-5	.
	.	∨	.
	.	∨	.
182	.	DP-1EL	.
	.		.
185	DP-1EL.....		.
	.		.
188	.	SBEL-7	.
	.	∨	.
	.	∨	.
197	.	DP-1EL	.
	.		.
200	DP-1EL.....		.
	∨		.
	∨		.
203	DP-2EL		.
	.		.
206	.	SBEL-8	.
	.	∨	.
	.	∨	.

215	.	DP-2EL	.
	.	.	.
218	DP-2EL	.....	.
	.	.	.
221	.	SBEL-9	.
	.	V	.
	.	V	.
230	.	DP-2EL	.
	.	.	.
233	DP-2EL	.....	.
	.	.	.
236	.	SBEL10	.
	.	.	.
245	DP-2EL	.....	.
	.	.	.
248	.	SBEL11	.
	.	V	.
	.	V	.
257	.	DP-2EL	.
	.	.	.
260	DP-2EL	.....	.
	.	.	.
263	.	SBEL12	.
	.	.	.
272	DP-2EL	.....	.
	.	V	.
	.	V	.
275	DF/LP	.	.
	.	V	.
	.	V	.
283	DP-1EC	.	.
	.	.	.
287	.	SBEC-1	.
	.	.	.
296	.	.	SBEC-2
	.	.	.
305	.	.	SBEC-3

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR UNDEVELOPED UPPER POND AREA WITHOUT UPPER POND AND
 DEVELOPED LOWER POND AREA WITH LOWER POND
 HEC1 (SCS) 100-YEAR RUNOFF (FC43.DAT)

IFLOT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 5 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NQ 300 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME
COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* *
275 KK * DF/LP *
* *

276 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IFLOT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

278 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC .00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

279 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 60.8 64.4 100.0 111.0

248 KK SBEL-11
 249 KM RUNOFF FROM SBEL-11
 250 BA 0.0494
 251 PR 1
 252 PW 1
 253 PT 2
 254 PW 1
 255 LS 0 84.9
 256 UD 0.12

257 KK DP-2EL
 258 KM ROUTE SBEL-11 TO DP-2EL
 259 RK 2900 0.0250 0.045 0 TRAP 10 3

260 KK DP-2EL
 261 KM COMBINE FLOWS AT DP-2EL
 262 HC 2

263 KK SBEL-12
 264 KM RUNOFF FROM SBEL-12
 265 BA 0.1063
 266 PR 1
 267 PW 1
 268 PT 2
 269 PW 1
 270 LS 0 77.4
 271 UD 0.16

HEC-1 INPUT

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

272 KK DP-2EL
 273 KM COMBINE FLOWS AT DP-2EL
 274 HC 2

275 KK DF/LP
 276 KO 2
 277 KM ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)
 278 RS 1 STOR 0
 279 SV 0.0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2
 280 SE 6790.0 6800.0 6804.0 6808.0 6810.0 6812.0 6816.0 6818.0 6818.5 6820.0
 281 SL 6788.0 4.91 0.60 0.50
 282 SS 6818.5

283 KK DP-1EC
 284 KM ROUTE DF/LP TO DP-1EC
 285 RK 415 0.0250 0.015 0 CIRC 2.5
 286 KM FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

287 KK SBEC-1
 288 KM RUNOFF FROM SBEC-1
 289 BA 0.0138
 290 PR 1
 291 PW 1
 292 PT 2
 293 PW 1
 294 LS 0 80.0
 295 UD 0.11

296 KK SBEC-2
 297 KM RUNOFF FROM BASIN SBEC-2
 298 BA 0.0263
 299 PR 1
 300 PW 1
 301 PT 2

1	0725	90	127.	88.6	6817.0	*	1	1545	190	112.	44.8	6810.4	*	2	0005	290	35.	.2	6790.2
1	0730	91	127.	88.9	6817.0	*	1	1550	191	111.	44.3	6810.3	*	2	0010	291	33.	.0	6790.0
1	0735	92	127.	89.1	6817.1	*	1	1555	192	111.	43.8	6810.2	*	2	0015	292	32.	-1	6790.0
1	0740	93	127.	89.2	6817.1	*	1	1600	193	111.	43.2	6810.1	*	2	0020	293	32.	-1	6790.0
1	0745	94	127.	89.3	6817.1	*	1	1605	194	111.	42.7	6810.0	*	2	0025	294	32.	-1	6790.0
1	0750	95	127.	89.4	6817.1	*	1	1610	195	110.	42.1	6809.9	*	2	0030	295	32.	-1	6790.0
1	0755	96	127.	89.4	6817.1	*	1	1615	196	110.	41.6	6809.8	*	2	0035	296	32.	-1	6790.0
1	0800	97	127.	89.4	6817.1	*	1	1620	197	110.	41.0	6809.6	*	2	0040	297	32.	-1	6790.0
1	0805	98	127.	89.3	6817.1	*	1	1625	198	110.	40.5	6809.5	*	2	0045	298	32.	-1	6790.0
1	0810	99	127.	89.1	6817.1	*	1	1630	199	109.	40.0	6809.4	*	2	0050	299	32.	-1	6790.0
1	0815	100	127.	88.9	6817.0	*	1	1635	200	109.	39.4	6809.3	*	2	0055	300	32.	-1	6790.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.92-HR
127.	7.92		125.	90.	87.	87.
		(INCHES)	.852	2.446	2.480	2.480
		(AC-FT)	62.	178.	180.	180.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
89.	7.92		80.	36.	35.	35.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6817.10	7.92		6815.89	6804.75	6804.21	6804.21

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBEU-1	176.	5.92	26.	8.	8.	.15		
ROUTED TO	DP-1EU	151.	6.17	25.	8.	8.	.15		
HYDROGRAPH AT	SBEU-2	166.	6.17	32.	10.	10.	.19		
2 COMBINED AT	DP-1EU	317.	6.17	58.	18.	18.	.33		
HYDROGRAPH AT	SBEU-3	127.	6.00	20.	6.	6.	.11		
ROUTED TO	DP-1EU	125.	6.17	20.	6.	6.	.11		

280 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

281 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COGL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

282 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COGW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00
STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	33.	.0	6790.0	*	1		0820	101	127.	88.7	6817.0	*	1		1640	201	109.	38.9	6809.2
1		0005	2	32.	-.1	6790.0	*	1		0825	102	127.	88.4	6817.0	*	1		1645	202	108.	38.4	6809.1
1		0010	3	32.	-.1	6790.0	*	1		0830	103	127.	88.1	6816.9	*	1		1650	203	108.	37.8	6809.0
1		0015	4	32.	-.1	6790.0	*	1		0835	104	127.	87.8	6816.9	*	1		1655	204	108.	37.3	6808.9
1		0020	5	32.	-.1	6790.0	*	1		0840	105	127.	87.4	6816.9	*	1		1700	205	108.	36.8	6808.8
1		0025	6	32.	-.1	6790.0	*	1		0845	106	127.	87.1	6816.8	*	1		1705	206	107.	36.3	6808.7
1		0030	7	32.	-.1	6790.0	*	1		0850	107	127.	86.7	6816.8	*	1		1710	207	107.	35.7	6808.6
1		0035	8	32.	-.1	6790.0	*	1		0855	108	127.	86.3	6816.7	*	1		1715	208	107.	35.2	6808.5
1		0040	9	32.	-.1	6790.0	*	1		0900	109	126.	85.9	6816.6	*	1		1720	209	107.	34.7	6808.3
1		0045	10	32.	-.1	6790.0	*	1		0905	110	126.	85.4	6816.6	*	1		1725	210	106.	34.2	6808.2
1		0050	11	32.	-.1	6790.0	*	1		0910	111	126.	85.0	6816.5	*	1		1730	211	106.	33.7	6808.1
1		0055	12	32.	-.1	6790.0	*	1		0915	112	126.	84.6	6816.5	*	1		1735	212	106.	33.1	6808.0
1		0100	13	32.	-.1	6790.0	*	1		0920	113	126.	84.1	6816.4	*	1		1740	213	105.	32.6	6807.9
1		0105	14	32.	-.1	6790.0	*	1		0925	114	126.	83.7	6816.4	*	1		1745	214	105.	32.1	6807.8
1		0110	15	32.	-.1	6790.0	*	1		0930	115	126.	83.2	6816.3	*	1		1750	215	105.	31.6	6807.6
1		0115	16	32.	-.1	6790.0	*	1		0935	116	126.	82.8	6816.3	*	1		1755	216	104.	31.1	6807.5
1		0120	17	32.	-.1	6790.0	*	1		0940	117	125.	82.4	6816.2	*	1		1800	217	104.	30.6	6807.4
1		0125	18	32.	-.1	6790.0	*	1		0945	118	125.	81.9	6816.1	*	1		1805	218	104.	30.1	6807.3
1		0130	19	32.	-.1	6790.0	*	1		0950	119	125.	81.5	6816.1	*	1		1810	219	103.	29.6	6807.1
1		0135	20	32.	-.1	6790.0	*	1		0955	120	125.	81.0	6816.0	*	1		1815	220	103.	29.1	6807.0
1		0140	21	32.	-.1	6790.0	*	1		1000	121	125.	80.6	6816.0	*	1		1820	221	103.	28.6	6806.9
1		0145	22	32.	-.1	6790.0	*	1		1005	122	125.	80.1	6815.9	*	1		1825	222	102.	28.1	6806.8
1		0150	23	32.	-.1	6790.0	*	1		1010	123	125.	79.6	6815.8	*	1		1830	223	102.	27.6	6806.7

1	0155	24	32.	-1	6790.0 *	1	1015	124	124.	79.1	6815.8 *	1	1835	224	102.	27.2	6806.5
1	0200	25	32.	-1	6790.0 *	1	1020	125	124.	78.7	6815.7 *	1	1840	225	101.	26.7	6806.4
1	0205	26	32.	-1	6790.0 *	1	1025	126	124.	78.2	6815.6 *	1	1845	226	101.	26.2	6806.3
1	0210	27	32.	-1	6790.0 *	1	1030	127	124.	77.7	6815.5 *	1	1850	227	101.	25.7	6806.2
1	0215	28	32.	-1	6790.0 *	1	1035	128	124.	77.2	6815.5 *	1	1855	228	100.	25.2	6806.0
1	0220	29	32.	-1	6790.0 *	1	1040	129	124.	76.7	6815.4 *	1	1900	229	100.	24.8	6805.9
1	0225	30	32.	-1	6790.0 *	1	1045	130	123.	76.1	6815.3 *	1	1905	230	100.	24.3	6805.8
1	0230	31	32.	-1	6790.0 *	1	1050	131	123.	75.6	6815.2 *	1	1910	231	99.	23.8	6805.7
1	0235	32	32.	-1	6790.0 *	1	1055	132	123.	75.1	6815.2 *	1	1915	232	99.	23.4	6805.6
1	0240	33	32.	-1	6790.0 *	1	1100	133	123.	74.6	6815.1 *	1	1920	233	99.	22.9	6805.4
1	0245	34	32.	-1	6790.0 *	1	1105	134	123.	74.1	6815.0 *	1	1925	234	98.	22.4	6805.3
1	0250	35	32.	-1	6790.0 *	1	1110	135	123.	73.5	6814.9 *	1	1930	235	98.	22.0	6805.2
1	0255	36	32.	-1	6790.0 *	1	1115	136	122.	73.0	6814.8 *	1	1935	236	98.	21.5	6805.1
1	0300	37	32.	-1	6790.0 *	1	1120	137	122.	72.5	6814.8 *	1	1940	237	97.	21.1	6805.0
1	0305	38	32.	-1	6790.0 *	1	1125	138	122.	72.0	6814.7 *	1	1945	238	97.	20.6	6804.9
1	0310	39	32.	-1	6790.0 *	1	1130	139	122.	71.5	6814.6 *	1	1950	239	97.	20.2	6804.7
1	0315	40	32.	-1	6790.0 *	1	1135	140	122.	70.9	6814.5 *	1	1955	240	96.	19.7	6804.6
1	0320	41	32.	-1	6790.0 *	1	1140	141	121.	70.4	6814.5 *	1	2000	241	96.	19.2	6804.5
1	0325	42	32.	-1	6790.0 *	1	1145	142	121.	69.9	6814.4 *	1	2005	242	96.	18.8	6804.4
1	0330	43	32.	-1	6790.0 *	1	1150	143	121.	69.4	6814.3 *	1	2010	243	95.	18.3	6804.3
1	0335	44	32.	-1	6790.0 *	1	1155	144	121.	68.9	6814.2 *	1	2015	244	95.	17.8	6804.2
1	0340	45	32.	-1	6790.0 *	1	1200	145	121.	68.3	6814.1 *	1	2020	245	95.	17.4	6804.0
1	0345	46	32.	-1	6790.0 *	1	1205	146	121.	67.8	6814.1 *	1	2025	246	94.	16.9	6803.9
1	0350	47	32.	-1	6790.0 *	1	1210	147	120.	67.3	6814.0 *	1	2030	247	94.	16.4	6803.7
1	0355	48	32.	-1	6790.0 *	1	1215	148	120.	66.8	6813.9 *	1	2035	248	93.	15.9	6803.5
1	0400	49	32.	-1	6790.0 *	1	1220	149	120.	66.3	6813.8 *	1	2040	249	92.	15.4	6803.3
1	0405	50	32.	-1	6790.0 *	1	1225	150	120.	65.8	6813.8 *	1	2045	250	92.	14.9	6803.1
1	0410	51	32.	-1	6790.0 *	1	1230	151	120.	65.3	6813.7 *	1	2050	251	91.	14.4	6803.0
1	0415	52	32.	-1	6790.0 *	1	1235	152	119.	64.8	6813.6 *	1	2055	252	91.	13.9	6802.8
1	0420	53	32.	-1	6790.0 *	1	1240	153	119.	64.3	6813.5 *	1	2100	253	90.	13.4	6802.6
1	0425	54	32.	-1	6790.0 *	1	1245	154	119.	63.8	6813.5 *	1	2105	254	89.	13.0	6802.4
1	0430	55	32.	-1	6790.0 *	1	1250	155	119.	63.3	6813.4 *	1	2110	255	89.	12.5	6802.2
1	0435	56	32.	-1	6790.0 *	1	1255	156	119.	62.7	6813.3 *	1	2115	256	88.	12.0	6802.0
1	0440	57	32.	-1	6790.0 *	1	1300	157	119.	62.2	6813.2 *	1	2120	257	88.	11.5	6801.9
1	0445	58	32.	-1	6790.0 *	1	1305	158	118.	61.7	6813.2 *	1	2125	258	87.	11.0	6801.7
1	0450	59	32.	-1	6790.0 *	1	1310	159	118.	61.2	6813.1 *	1	2130	259	87.	10.5	6801.5
1	0455	60	32.	-1	6790.0 *	1	1315	160	118.	60.7	6813.0 *	1	2135	260	86.	10.0	6801.3
1	0500	61	32.	-1	6790.0 *	1	1320	161	118.	60.2	6812.9 *	1	2140	261	85.	9.6	6801.1
1	0505	62	32.	-1	6790.0 *	1	1325	162	118.	59.7	6812.8 *	1	2145	262	85.	9.1	6801.0
1	0510	63	32.	-1	6790.0 *	1	1330	163	118.	59.2	6812.8 *	1	2150	263	84.	8.6	6800.8
1	0515	64	32.	-1	6790.0 *	1	1335	164	117.	58.7	6812.7 *	1	2155	264	84.	8.1	6800.6
1	0520	65	32.	-1	6790.0 *	1	1340	165	117.	58.1	6812.6 *	1	2200	265	83.	7.7	6800.4
1	0525	66	32.	-1	6790.0 *	1	1345	166	117.	57.6	6812.5 *	1	2205	266	83.	7.2	6800.3
1	0530	67	41.	-7	6791.0 *	1	1350	167	117.	57.1	6812.5 *	1	2210	267	82.	6.8	6800.1
1	0535	68	62.	3.2	6794.8 *	1	1355	168	117.	56.6	6812.4 *	1	2215	268	81.	6.3	6799.7
1	0540	69	83.	7.7	6800.5 *	1	1400	169	116.	56.0	6812.3 *	1	2220	269	78.	5.9	6799.0
1	0545	70	91.	14.3	6802.9 *	1	1405	170	116.	55.5	6812.2 *	1	2225	270	76.	5.4	6798.4
1	0550	71	98.	22.5	6805.3 *	1	1410	171	116.	55.0	6812.1 *	1	2230	271	74.	5.0	6797.8
1	0555	72	104.	31.1	6807.5 *	1	1415	172	116.	54.5	6812.1 *	1	2235	272	71.	4.7	6797.2
1	0600	73	109.	39.2	6809.3 *	1	1420	173	116.	53.9	6812.0 *	1	2240	273	69.	4.3	6796.6
1	0605	74	112.	46.3	6810.6 *	1	1425	174	115.	53.4	6811.9 *	1	2245	274	67.	3.9	6796.0
1	0610	75	115.	52.8	6811.8 *	1	1430	175	115.	52.9	6811.8 *	1	2250	275	65.	3.6	6795.5
1	0615	76	117.	58.9	6812.7 *	1	1435	176	115.	52.4	6811.7 *	1	2255	276	62.	3.2	6795.0
1	0620	77	119.	64.6	6813.6 *	1	1440	177	115.	51.8	6811.6 *	1	2300	277	60.	2.9	6794.5
1	0625	78	121.	69.4	6814.3 *	1	1445	178	115.	51.3	6811.5 *	1	2305	278	58.	2.6	6794.1
1	0630	79	122.	73.3	6814.9 *	1	1450	179	114.	50.8	6811.4 *	1	2310	279	56.	2.4	6793.6
1	0635	80	124.	76.5	6815.4 *	1	1455	180	114.	50.2	6811.3 *	1	2315	280	54.	2.1	6793.2
1	0640	81	124.	79.1	6815.7 *	1	1500	181	114.	49.7	6811.2 *	1	2320	281	52.	1.8	6792.8
1	0645	82	125.	81.2	6816.1 *	1	1505	182	114.	49.2	6811.1 *	1	2325	282	50.	1.6	6792.5
1	0650	83	126.	82.9	6816.3 *	1	1510	183	113.	48.6	6811.0 *	1	2330	283	48.	1.4	6792.1
1	0655	84	126.	84.4	6816.5 *	1	1515	184	113.	48.1	6810.9 *	1	2335	284	46.	1.2	6791.8
1	0700	85	126.	85.5	6816.6 *	1	1520	185	113.	47.6	6810.9 *	1	2340	285	44.	1.0	6791.5
1	0705	86	127.	86.4	6816.7 *	1	1525	186	113.	47.0	6810.8 *	1	2345	286	43.	.8	6791.2
1	0710	87	127.	87.2	6816.8 *	1	1530	187	112.	46.5	6810.7 *	1	2350	287	41.	.6	6791.0
1	0715	88	127.	87.8	6816.9 *	1	1535	188	112.	45.9	6810.6 *	1	2355	288	39.	.5	6790.8
1	0720	89	127.	88.2	6817.0 *	1	1540	189	112.	45.4	6810.5 *	1	2360	289	37.	.4	6790.6

+	2 COMBINED AT	DP--1EU	442.	6.17	78.	25.	24.	.44
+	HYDROGRAPH AT	SBEU-4	185.	6.08	35.	11.	11.	.20
+	2 COMBINED AT	DP-1EU	625.	6.17	113.	36.	34.	.64
+	HYDROGRAPH AT	SBEU-5	76.	6.00	13.	4.	4.	.07
+	2 COMBINED AT	DP-1EU	695.	6.08	126.	40.	38.	.72
+	HYDROGRAPH AT	SBEU-6	101.	6.08	19.	6.	6.	.11
+	ROUTED TO	DP-1EU	99.	6.17	19.	6.	6.	.11
+	2 COMBINED AT	DP-1EU	793.	6.17	144.	46.	44.	.83
+	ROUTED TO	DP-1EL	793.	6.17	144.	46.	44.	.83
+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06
+	2 COMBINED AT	DP-1EL	817.	6.17	163.	51.	49.	.89
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	826.	6.17	167.	53.	51.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	837.	6.17	173.	54.	52.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	849.	6.17	182.	57.	55.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03

+	2 COMBINED AT	DP-1EL	862.	6.08	189.	59.	57.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	884.	6.08	199.	62.	60.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	903.	5.92	207.	65.	62.	1.06
+	ROUTED TO	DP-2EL	902.	6.00	207.	65.	62.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-2EL	50.	5.92	5.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	947.	6.00	212.	66.	64.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	123.	5.83	13.	4.	4.	.07
+	2 COMBINED AT	DP-2EL	1052.	5.92	225.	70.	68.	1.16
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04
+	2 COMBINED AT	DP-2EL	1094.	5.92	233.	73.	70.	1.21
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05
+	ROUTED TO	DP-2EL	115.	5.83	13.	4.	4.	.05
+	2 COMBINED AT	DP-2EL	1204.	5.92	246.	77.	74.	1.25
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11
+	2 COMBINED AT	DP-2EL	1375.	5.83	266.	83.	80.	1.36
+	ROUTED TO	DP/LP	127.	7.92	125.	90.	87.	1.17

								6817.10	7.92
+	ROUTED TO	DP-1EC	127.	7.92	125.	90.	87.	1.36	
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01	
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03	
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05	

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

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC44.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	78.8								
28	UD	0.15									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.016	0	TRAF	8	10			
32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	PR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	83.1								
40	UD	0.21									
41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									
44	KK	SBEU-3									
45	KM	RUNOFF FROM SBEU-3									
46	BA	0.1117									
47	PR	1									
48	PW	1									
49	PT	2									

4

1

100	RK	2000	0.0300	0.016	0	TRAP	8	10
101	KK	SBEL-6						
102	KM	RUNOFF FROM SBEL-6						
103	BA	0.0597						
104	PR	1						
105	PW	1						
106	PT	2						
107	PW	1						
108	LS	0	92.0					
109	UD	0.13						
110	KK	DP-1EL						
111	KM	COMBINE FLOWS AT DP-1EL						
112	HC	2						
113	KK	SBEL-1						
114	KM	RUNOFF FROM SBEL-1						
115	BA	0.0282						
116	PR	1						
117	PW	1						
118	PT	2						
119	PW	1						
120	LS	0	75.0					
121	UD	0.14						
122	KK	DP-1EL						
123	KM	ROUTE SBEL-1 TO DP-1EL						
124	RK	1600	0.0380	0.016	0	TRAP	10	3
125	KK	DP-1EL						
126	KM	COMBINE FLOWS AT DP-1EL						
127	HC	2						
128	KK	SBEL-2						
129	KM	RUNOFF FROM SBEL-2						
130	BA	0.0251						
131	PR	1						
132	PW	1						
133	PT	2						
134	PW	1						
135	LS	0	80.2					
136	UD	0.13						

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
137	KK	DP-1EL									
138	KM	ROUTE SBEL-2 TO DP-1EL									
139	RK	2000	0.0400	0.016	0	TRAP	8	10			
140	KK	DP-1EL									
141	KM	COMBINE FLOWS AT DP-1EL									
142	HC	2									
143	KK	SBEL-3									
144	KM	RUNOFF FROM SBEL-3									
145	BA	0.0320									
146	PR	1									
147	PW	1									
148	PT	2									
149	PW	1									
150	LS	0	90.0								
151	UD	0.12									

256 UD 0.12
 257 KK DP-2EL
 258 KM ROUTE SBEL-11 TO DP-2EL
 259 RK 2900 0.0250 0.045 0 TRAP 10 3

 260 KK DP-2EL
 261 KM COMBINE FLOWS AT DP-2EL
 262 HC 2

 263 KK SBEL12
 264 KM RUNOFF FROM SBEL-12
 265 BA 0.1063
 266 FR 1
 267 PW 1
 268 PT 2
 269 PW 1
 270 LS 0 77.4
 271 UD 0.16

HEC-1 INPUT

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

 272 KK DP-2EL
 273 KM COMBINE FLOWS AT DP-2EL
 274 HC 2

 275 KK DF/LP
 276 KU 2
 277 KM ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)
 278 RS 1 STOR 0
 279 SV 0.0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2
 280 SE 6770.0 6800.0 6804.0 6808.0 6810.0 6812.0 6816.0 6818.0 6818.5 6820.0
 281 SL 6788.0 4.91 0.60 0.50
 282 SS 6818.5

 283 KK DP-1EC
 284 KM ROUTE DF/LP TO DP-1EC
 285 RK 415 0.0250 0.015 0 CIRC 2.5
 286 KM FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

 287 KK SBEC-1
 288 KM RUNOFF FROM SBEC-1
 289 BA 0.0138
 290 PR 1
 291 PW 1
 292 PT 2
 293 PW 1
 294 LS 0 80.0
 295 UD 0.11

 296 KK SBEC-2
 297 KM RUNOFF FROM BASIN SBEC-2
 298 BA 0.0263
 299 FR 1
 300 PW 1
 301 PT 2
 302 PW 1
 303 LS 0 69.0
 304 UD 0.13

 305 KK SBEC-3
 306 KM RUNOFF FROM SBEC-3
 307 BA 0.0470
 308 FR 1

307	FW	1	
310	PT	2	
311	FW	1	
312	LS	0	72.0
313	UD	0.15	
314	ZZ		

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
NO.	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
20	SBEU-1	
	V	
29	DP-1EU	
	.	
32	.	SBEU-2
	.	.
41	DP-1EU.....	
	.	
44	.	SBEU-3
	.	V
	.	V
53	.	DP-1EU
	.	.
54	DP-1EU.....	
	.	
59	.	SBEU-4
	.	.
68	DP-1EU.....	
	.	
71	.	SBEU-5
	.	.
80	DP-1EU.....	
	.	
83	.	SBEU-6
	.	V
	.	V
92	.	DP-1EU
	.	.
95	DP-1EU.....	
	V	
	V	
98	DP-1EL	
	.	
101	.	SBEL-6
	.	.
110	DP-1EL.....	
	.	
113	.	SBEL-1
	V	

122	.	DP-1EL	∨
	.		.
125	DP-1EL	.....	.
	.		.
128	.	SBEL-2	∨
	.		∨
137	.	DP-1EL	.
	.		.
140	DP-1EL	.....	.
	.		.
143	.	SBEL-3	∨
	.		∨
152	.	DP-1EL	.
	.		.
155	DP-1EL	.....	.
	.		.
158	.	SBEL-4	∨
	.		∨
167	.	DP-1EL	.
	.		.
170	DP-1EL	.....	.
	.		.
173	.	SBEL-5	∨
	.		∨
182	.	DP-1EL	.
	.		.
185	DP-1EL	.....	.
	.		.
188	.	SBEL-7	∨
	.		∨
197	.	DP-1EL	.
	.		.
200	DP-1EL	.....	.
	∨		.
	∨		.
203	DP-2EL		.
	.		.
206	.	SBEL-8	∨
	.		∨
215	.	DP-2EL	.
	.		.
218	DP-2EL	.....	.
	.		.
221	.	SBEL-9	∨
	.		.

NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* DF/LP *
* * *

276 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

278 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION

	RSVKIL	.00	INITIAL CONDITION								
	X	.00	WORKING R AND D COEFFICIENT								
279 SV	STORAGE	.0	6.5	17.2	33.0	42.8	54.0	80.8	96.4	100.9	114.2
280 SE	ELEVATION	6790.00	6800.00	6804.00	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00
281 SL	LOW-LEVEL OUTLET										
	ELEVL	6788.00	ELEVATION AT CENTER OF OUTLET								
	CAREA	4.91	CROSS-SECTIONAL AREA								
	COBL	.60	COEFFICIENT								
	EXFL	.50	EXPONENT OF HEAD								
282 SS	SPILLWAY										
	CREL	6818.50	SPILLWAY CREST ELEVATION								
	SPWID	.00	SPILLWAY WIDTH								
	COBW	.00	WEIR COEFFICIENT								
	EXPW	1.50	EXPONENT OF HEAD								

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00
STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	32.	.0	6790.0	* 1	*	0820	101	130.	100.1	6818.4	* 1	*	1640	201	113.	47.6	6810.9			
1	0005	2	32.	-.1	6790.0	* 1	*	0825	102	130.	99.7	6818.4	* 1	*	1645	202	113.	47.1	6810.8			
1	0010	3	32.	-.1	6790.0	* 1	*	0830	103	130.	99.3	6818.3	* 1	*	1650	203	112.	46.5	6810.7			
1	0015	4	32.	-.1	6790.0	* 1	*	0835	104	130.	98.8	6818.3	* 1	*	1655	204	112.	46.0	6810.6			
1	0020	5	32.	-.1	6790.0	* 1	*	0840	105	130.	98.4	6818.2	* 1	*	1700	205	112.	45.4	6810.5			
1	0025	6	32.	-.1	6790.0	* 1	*	0845	106	130.	97.9	6818.2	* 1	*	1705	206	112.	44.9	6810.4			
1	0030	7	32.	-.1	6790.0	* 1	*	0850	107	130.	97.5	6818.1	* 1	*	1710	207	111.	44.3	6810.3			
1	0035	8	32.	-.1	6790.0	* 1	*	0855	108	130.	97.0	6818.1	* 1	*	1715	208	111.	43.8	6810.2			
1	0040	9	32.	-.1	6790.0	* 1	*	0900	109	129.	96.6	6818.0	* 1	*	1720	209	111.	43.2	6810.1			
1	0045	10	32.	-.1	6790.0	* 1	*	0905	110	129.	96.1	6818.0	* 1	*	1725	210	111.	42.7	6810.0			
1	0050	11	32.	-.1	6790.0	* 1	*	0910	111	129.	95.6	6817.9	* 1	*	1730	211	110.	42.1	6809.9			
1	0055	12	32.	-.1	6790.0	* 1	*	0915	112	129.	95.2	6817.8	* 1	*	1735	212	110.	41.6	6809.8			
1	0100	13	32.	-.1	6790.0	* 1	*	0920	113	129.	94.7	6817.8	* 1	*	1740	213	110.	41.1	6809.7			
1	0105	14	32.	-.1	6790.0	* 1	*	0925	114	129.	94.2	6817.7	* 1	*	1745	214	110.	40.5	6809.6			
1	0110	15	32.	-.1	6790.0	* 1	*	0930	115	129.	93.8	6817.7	* 1	*	1750	215	109.	40.0	6809.5			
1	0115	16	32.	-.1	6790.0	* 1	*	0935	116	129.	93.3	6817.6	* 1	*	1755	216	109.	39.5	6809.4			
1	0120	17	32.	-.1	6790.0	* 1	*	0940	117	128.	92.9	6817.5	* 1	*	1800	217	109.	39.0	6809.3			
1	0125	18	32.	-.1	6790.0	* 1	*	0945	118	128.	92.4	6817.5	* 1	*	1805	218	109.	38.5	6809.2			
1	0130	19	32.	-.1	6790.0	* 1	*	0950	119	128.	92.0	6817.4	* 1	*	1810	219	109.	38.0	6809.1			

1	0135	20	32.	-1	6790.0	*	1	0955	120	128.	91.5	6817.4	*	1	1815	220	108.	37.4	6808.9
1	0140	21	32.	-1	6790.0	*	1	1000	121	128.	91.0	6817.3	*	1	1820	221	108.	36.9	6808.8
1	0145	22	32.	-1	6790.0	*	1	1005	122	128.	90.6	6817.3	*	1	1825	222	107.	36.3	6808.7
1	0150	23	32.	-1	6790.0	*	1	1010	123	128.	90.1	6817.2	*	1	1830	223	107.	35.8	6808.6
1	0155	24	32.	-1	6790.0	*	1	1015	124	127.	89.6	6817.1	*	1	1835	224	107.	35.3	6808.5
1	0200	25	32.	-1	6790.0	*	1	1020	125	127.	89.0	6817.1	*	1	1840	225	107.	34.8	6808.4
1	0205	26	32.	-1	6790.0	*	1	1025	126	127.	88.5	6817.0	*	1	1845	226	106.	34.3	6808.3
1	0210	27	32.	-1	6790.0	*	1	1030	127	127.	88.0	6816.9	*	1	1850	227	106.	33.8	6808.2
1	0215	28	32.	-1	6790.0	*	1	1035	128	127.	87.4	6816.9	*	1	1855	228	106.	33.3	6808.1
1	0220	29	32.	-1	6790.0	*	1	1040	129	127.	86.9	6816.8	*	1	1900	229	105.	32.8	6807.9
1	0225	30	32.	-1	6790.0	*	1	1045	130	127.	86.4	6816.7	*	1	1905	230	105.	32.3	6807.8
1	0230	31	32.	-1	6790.0	*	1	1050	131	126.	85.8	6816.6	*	1	1910	231	105.	31.8	6807.7
1	0235	32	32.	-1	6790.0	*	1	1055	132	126.	85.3	6816.6	*	1	1915	232	104.	31.3	6807.6
1	0240	33	32.	-1	6790.0	*	1	1100	133	126.	84.7	6816.5	*	1	1920	233	104.	30.8	6807.4
1	0245	34	32.	-1	6790.0	*	1	1105	134	126.	84.2	6816.4	*	1	1925	234	104.	30.3	6807.3
1	0250	35	32.	-1	6790.0	*	1	1110	135	126.	83.6	6816.4	*	1	1930	235	103.	29.8	6807.2
1	0255	36	32.	-1	6790.0	*	1	1115	136	126.	83.1	6816.3	*	1	1935	236	103.	29.3	6807.1
1	0300	37	32.	-1	6790.0	*	1	1120	137	126.	82.6	6816.2	*	1	1940	237	103.	28.8	6806.9
1	0305	38	32.	-1	6790.0	*	1	1125	138	125.	82.0	6816.2	*	1	1945	238	102.	28.3	6806.8
1	0310	39	32.	-1	6790.0	*	1	1130	139	125.	81.5	6816.1	*	1	1950	239	102.	27.8	6806.7
1	0315	40	32.	-1	6790.0	*	1	1135	140	125.	80.9	6816.0	*	1	1955	240	102.	27.4	6806.6
1	0320	41	32.	-1	6790.0	*	1	1140	141	125.	80.4	6815.9	*	1	2000	241	101.	26.9	6806.4
1	0325	42	32.	-1	6790.0	*	1	1145	142	125.	79.9	6815.9	*	1	2005	242	101.	26.4	6806.3
1	0330	43	32.	-1	6790.0	*	1	1150	143	125.	79.3	6815.8	*	1	2010	243	101.	25.9	6806.2
1	0335	44	32.	-1	6790.0	*	1	1155	144	124.	78.8	6815.7	*	1	2015	244	100.	25.3	6806.1
1	0340	45	32.	-1	6790.0	*	1	1200	145	124.	78.3	6815.6	*	1	2020	245	100.	24.8	6805.9
1	0345	46	32.	-1	6790.0	*	1	1205	146	124.	77.7	6815.5	*	1	2025	246	100.	24.3	6805.8
1	0350	47	32.	-1	6790.0	*	1	1210	147	124.	77.2	6815.5	*	1	2030	247	99.	23.7	6805.7
1	0355	48	32.	-1	6790.0	*	1	1215	148	124.	76.7	6815.4	*	1	2035	248	99.	23.2	6805.5
1	0400	49	32.	-1	6790.0	*	1	1220	149	123.	76.2	6815.3	*	1	2040	249	98.	22.6	6805.4
1	0405	50	32.	-1	6790.0	*	1	1225	150	123.	75.6	6815.2	*	1	2045	250	98.	22.1	6805.2
1	0410	51	32.	-1	6790.0	*	1	1230	151	123.	75.1	6815.2	*	1	2050	251	98.	21.5	6805.1
1	0415	52	32.	-1	6790.0	*	1	1235	152	123.	74.6	6815.1	*	1	2055	252	97.	21.0	6805.0
1	0420	53	32.	-1	6790.0	*	1	1240	153	123.	74.1	6815.0	*	1	2100	253	97.	20.4	6804.8
1	0425	54	32.	-1	6790.0	*	1	1245	154	123.	73.6	6814.9	*	1	2105	254	96.	19.8	6804.7
1	0430	55	32.	-1	6790.0	*	1	1250	155	122.	73.1	6814.8	*	1	2110	255	96.	19.3	6804.5
1	0435	56	32.	-1	6790.0	*	1	1255	156	122.	72.5	6814.8	*	1	2115	256	96.	18.8	6804.4
1	0440	57	32.	-1	6790.0	*	1	1300	157	122.	72.0	6814.7	*	1	2120	257	95.	18.2	6804.3
1	0445	58	32.	-1	6790.0	*	1	1305	158	122.	71.5	6814.6	*	1	2125	258	95.	17.7	6804.1
1	0450	59	32.	-1	6790.0	*	1	1310	159	122.	71.0	6814.5	*	1	2130	259	94.	17.1	6804.0
1	0455	60	32.	-1	6790.0	*	1	1315	160	121.	70.4	6814.5	*	1	2135	260	94.	16.6	6803.8
1	0500	61	32.	-1	6790.0	*	1	1320	161	121.	69.9	6814.4	*	1	2140	261	93.	16.1	6803.6
1	0505	62	32.	-1	6790.0	*	1	1325	162	121.	69.4	6814.3	*	1	2145	262	93.	15.5	6803.4
1	0510	63	32.	-1	6790.0	*	1	1330	163	121.	68.8	6814.2	*	1	2150	263	92.	15.0	6803.2
1	0515	64	32.	-1	6790.0	*	1	1335	164	121.	68.3	6814.1	*	1	2155	264	91.	14.5	6803.0
1	0520	65	32.	-1	6790.0	*	1	1340	165	120.	67.7	6814.0	*	1	2200	265	91.	14.0	6802.8
1	0525	66	32.	-1	6790.0	*	1	1345	166	120.	67.2	6814.0	*	1	2205	266	90.	13.5	6802.6
1	0530	67	44.	9	6791.4	*	1	1350	167	120.	66.6	6813.9	*	1	2210	267	89.	13.0	6802.4
1	0535	68	71.	4.7	6797.2	*	1	1355	168	120.	66.1	6813.8	*	1	2215	268	89.	12.5	6802.2
1	0540	69	89.	12.4	6802.2	*	1	1400	169	120.	65.6	6813.7	*	1	2220	269	88.	12.0	6802.0
1	0545	70	99.	23.7	6805.6	*	1	1405	170	120.	65.0	6813.6	*	1	2225	270	88.	11.5	6801.9
1	0550	71	108.	37.7	6809.0	*	1	1410	171	119.	64.5	6813.6	*	1	2230	271	87.	11.0	6801.7
1	0555	72	115.	53.2	6811.9	*	1	1415	172	119.	63.9	6813.5	*	1	2235	272	87.	10.5	6801.5
1	0600	73	120.	67.2	6814.0	*	1	1420	173	119.	63.4	6813.4	*	1	2240	273	86.	10.0	6801.3
1	0605	74	124.	78.1	6815.6	*	1	1425	174	119.	62.8	6813.3	*	1	2245	274	85.	9.5	6801.1
1	0610	75	126.	85.6	6816.6	*	1	1430	175	119.	62.3	6813.2	*	1	2250	275	85.	9.0	6801.0
1	0615	76	128.	90.4	6817.2	*	1	1435	176	118.	61.7	6813.2	*	1	2255	276	84.	8.6	6800.8
1	0620	77	129.	93.4	6817.6	*	1	1440	177	118.	61.2	6813.1	*	1	2300	277	84.	8.1	6800.6
1	0625	78	129.	95.5	6817.9	*	1	1445	178	118.	60.6	6813.0	*	1	2305	278	83.	7.6	6800.4
1	0630	79	130.	97.1	6818.1	*	1	1450	179	118.	60.1	6812.9	*	1	2310	279	83.	7.2	6800.2
1	0635	80	130.	98.3	6818.2	*	1	1455	180	118.	59.5	6812.8	*	1	2315	280	82.	6.7	6800.1
1	0640	81	130.	99.2	6818.3	*	1	1500	181	117.	59.0	6812.7	*	1	2320	281	81.	6.3	6799.9
1	0645	82	130.	99.9	6818.4	*	1	1505	182	117.	58.4	6812.7	*	1	2325	282	79.	5.9	6799.7
1	0650	83	130.	100.4	6818.4	*	1	1510	183	117.	57.9	6812.6	*	1	2330	283	74.	5.4	6799.4
1	0655	84	130.	100.9	6818.5	*	1	1515	184	117.	57.3	6812.5	*	1	2335	284	74.	5.1	6799.2
1	0700	85	131.	101.2	6818.5	*	1	1520	185	117.	56.7	6812.4	*	1	2340	285	74.	4.8	6799.0

+		SBEU-3	219.	5.83	24.	7.	7.	.11
+	ROUTED TO	DP-1EU	217.	5.83	24.	7.	7.	.11
+	2 COMBINED AT	DP-1EU	858.	5.83	96.	29.	28.	.44
+	HYDROGRAPH AT	SBEU-4	338.	5.83	40.	12.	12.	.20
+	2 COMBINED AT	DP-1EU	1196.	5.83	136.	42.	40.	.64
+	HYDROGRAPH AT	SBEU-5	90.	5.83	9.	3.	3.	.07
+	2 COMBINED AT	DP-1EU	1287.	5.83	145.	45.	43.	.72
+	HYDROGRAPH AT	SBEU-6	174.	5.83	20.	6.	6.	.11
+	ROUTED TO	DP-1EU	171.	5.83	20.	6.	6.	.11
+	2 COMBINED AT	DP-1EU	1457.	5.83	165.	51.	49.	.83
+	ROUTED TO	DP-1EL	1411.	5.83	165.	51.	49.	.83
+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06
+	2 COMBINED AT	DP-1EL	1567.	5.83	184.	57.	55.	.89
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	1613.	5.83	189.	58.	56.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1664.	5.83	194.	60.	58.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1745.	5.83	203.	63.	60.	.97
+	HYDROGRAPH AT							

+		SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1810.	5.83	211.	65.	62.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1896.	5.83	220.	68.	65.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1963.	5.83	228.	70.	67.	1.06
+	ROUTED TO	DP-2EL	1911.	5.92	231.	71.	68.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-2EL	50.	5.92	5.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	1961.	5.92	237.	73.	70.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	123.	5.83	13.	4.	4.	.07
+	2 COMBINED AT	DP-2EL	2069.	5.92	250.	77.	74.	1.16
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04
+	2 COMBINED AT	DP-2EL	2110.	5.92	257.	79.	76.	1.21
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05
+	ROUTED TO	DP-2EL	115.	5.83	13.	4.	4.	.05
+	2 COMBINED AT	DP-2EL	2220.	5.92	270.	83.	80.	1.25
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11
+	2 COMBINED AT							

+		DP-2EL	2358.	5.92	290.	89.	86.	1.36		
	ROUTED TO									
+		DF/LP	131.	7.33	128.	95.	93.	1.36		
+									6818.57	7.33
	ROUTED TO									
+		DP-1EC	131.	7.33	128.	95.	93.	1.36		
	HYDROGRAPH AT									
+		SBEC-1	30.	5.75	3.	1.	1.	.01		
	HYDROGRAPH AT									
+		SBEC-2	33.	5.75	3.	1.	1.	.03		
	HYDROGRAPH AT									
+		SBEC-3	67.	5.83	7.	2.	2.	.05		

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

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) --FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC45.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	ID	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	78.8								
28	UD	0.15									

81 KM COMBINE FLOWS AT DP-1EU
 82 HC 2

 83 KK SBEU-6
 84 KM RUNOFF FROM SBEU-6
 85 BA 0.1064
 86 PR 1
 87 PW 1
 88 FT 2
 89 PW 1
 90 LS 0 77.1
 91 UD 0.20

HEC-1 INPUT

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

92 KK DP-1EU
 93 KM ROUTE SBEU-6 TO DP-1EU
 94 RK 1000 0.0400 0.016 0 TRAP 8 10

 95 KK DP-1EU
 96 KM COMBINE FLOWS AT DP-1EU
 97 HC 2

 98 KK DF/UP
 99 KD 2
 100 KM ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)
 101 RS 1 STOR 0
 102 SV 0.0 0.1 1.8 18.6 42.3 79.1 103.3 132.0
 103 SE 6956.0 6958.0 6960.0 6966.0 6970.0 6974.0 6976.0 6978.0
 104 SL 6958.0 3.14 0.60 0.50
 105 SS 6976.0

 106 KK DP-1EL
 107 KM ROUTE DP-1EU TO DP-1EL
 108 RK 2000 0.0200 0.015 0 CIRC 2

 109 KK SBEL-6
 110 KM RUNOFF FROM SBEL-6
 111 BA 0.0597
 112 PR 1
 113 PW 1
 114 PT 2
 115 PW 1
 116 LS 0 92.0
 117 UD 0.13

 118 KK DP-1EL
 119 KM COMBINE FLOWS AT DP-1EL
 120 HC 2

 121 KK SBEL-1
 122 KM RUNOFF FROM SBEL-1
 123 BA 0.0282
 124 PR 1
 125 PW 1
 126 PT 2
 127 PW 1
 128 LS 0 75.0
 129 UD 0.14

 130 KK DP-1EL
 131 KM ROUTE SBEL-1 TO DP-1EL
 132 RK 1600 0.0380 0.016 0 TRAP 8 10

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

```

133      KK  DP-1EL
134      KM          COMBINE FLOWS AT DP-1EL
135      HC          2

136      KK  SBEL-2
137      KM          RUNOFF FROM SBEL-2
138      BA  0.0251
139      PR          1
140      PW          1
141      PT          2
142      PW          1
143      LS          0      80.2
144      UD          0.13

145      KK  DP-1EL
146      KM          ROUTE SBEL-2 TO DP-1EL
147      RK          2000  0.0400  0.016      0      TRAP      8      10

148      KK  DP-1EL
149      KM          COMBINE FLOWS AT DP-1EL
150      HC          2

151      KK  SBEL-3
152      KM          RUNOFF FROM SBEL-3
153      BA  0.0320
154      PR          1
155      PW          1
156      PT          2
157      PW          1
158      LS          0      90.0
159      UD          0.12

160      KK  DP-1EL
161      KM          ROUTE SBEL-3 TO DP-1EL
162      RK          1000  0.0500  0.016      0      TRAP      8      10

163      KK  DP-1EL
164      KM          COMBINE FLOWS AT DP-1EL
165      HC          2

166      KK  SBEL-4
167      KM          RUNOFF FROM SBEL-4
168      BA  0.0289
169      PR          1
170      PW          1
171      PT          2
172      PW          1
173      LS          0      85.0
174      UD          0.12

```

HEC-1 INPUT

PAGE 5

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

```

175      KK  DP-1EL
176      KM          ROUTE SBEL-4 TO DP-1EL
177      RK          1000  0.0500  0.016      0      TRAP      8      10

178      KK  DP-1EL
179      KM          COMBINE FLOWS AT DP-1EL
180      HC          2

```

```

181      KK  SBEL-5
182      KM          RUNOFF FROM SBEL-5
183      BA  0.0334
184      PR          1
185      PW          1
186      PT          2
187      PW          1
188      LS          0      88.0
189      UD  0.12

190      KK  DP-1EL
191      KM          ROUTE SBEL-5 TO DP-1EL
192      RK  2200  0.0360  0.016      0      TRAP      8      10

193      KK  DP-1EL
194      KM          COMBINE FLOWS AT DP-1EL
195      HC          2

196      KK  SBEL-7
197      KM          RUNOFF FROM SBEL-7
198      BA  0.0294
199      PR          1
200      PW          1
201      PT          2
202      PW          1
203      LS          0      86.1
204      UD  0.12

205      KK  DP-1EL
206      KM          ROUTE SBEL-7 TO DP-1EL
207      RK  700  0.0710  0.016      0      TRAP      8      10

208      KK  DP-1EL
209      KM          COMBINE FLOWS AT DP-1EL
210      HC          2

211      KK  DP-2EL
212      KM          ROUTE DP-1EL TO DP-2EL
213      RK  3900  0.0100  0.045      0      TRAP      40      4

214      KK  SBEL-8
215      KM          RUNOFF FROM SBEL-8
216      BA  0.0302
217      PR          1
218      PW          1
219      PT          2

```

1

HEC-1 INPUT

PAGE 6

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
220      PW          1
221      LS          0      75.0
222      UD  0.13

223      KK  DP-2EL
224      KM          ROUTE SBEL-8 TO DP-2EL
225      RK  2900  0.0100  0.045      0      TRAP      40      4

226      KK  DP-2EL
227      KM          COMBINE FLOWS AT DP-2EL
228      HC          2

229      KK  SBEL-9
230      KM          RUNOFF FROM SBEL-9
231      BA  0.0694
232      PR          1

```


285	KM	ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND									
286	RS	1	STOR	0							
287	SV	0.0	6.5	17.2	33.0	42.8	54.0	60.8	96.4	100.9	114.2
288	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
289	SL	6788.0	4.91	0.60	0.50						
290	SS	6818.5									
291	KK	DP-1EC									
292	KM	ROUTE DF/LP TO DP-1EC									
293	RK	415	0.0250	0.015	0	CIRC	2.50				
294	KM	FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK									
295	KK	SBEC-1									
296	KM	RUNOFF FROM SBEC-1									
297	BA	0.0138									
298	PR	1									
299	PW	1									
300	PT	2									
301	PW	1									
302	LS	0	80.0								
303	UD	0.11									
304	KK	SBEC-2									
305	KM	RUNOFF FROM BASIN SBEC-2									
306	BA	0.0263									
307	PR	1									
308	PW	1									
309	PT	2									
310	PW	1									
311	LS	0	69.0								

HEC-1 INPUT

PAGE 8

1	LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
	312	UD 0.13
	313	KK SBEC-3
	314	KM RUNOFF FROM SBEC-3
	315	BA 0.0470
	316	PR 1
	317	PW 1
	318	PT 2
	319	PW 1
	320	LS 0 72.0
	321	UD 0.15
	322	ZZ

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
NO.	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
20	SBEU-1	
	V	
	V	
29	DP-1EU	
	.	
32	SBEU-2	
	.	
	.	
41	DP-1EU.....	
	.	
	.	
44	SBEU-3	

	.	V
	.	V
53	.	DP-1EU
	.	.
56	DP-1EU.....	.
	.	.
59	.	SBEU-4
	.	.
68	DP-1EU.....	.
	.	.
71	.	SBEU-5
	.	.
80	DP-1EU.....	.
	.	.
83	.	SBEU-6
	.	V
	.	V
92	.	DP-1EU
	.	.
95	DP-1EU.....	.
	V	.
	V	.
98	DF/UP	.
	V	.
	V	.
106	DP-1EL	.
	.	.
109	.	SBEL-6
	.	.
118	DP-1EL.....	.
	.	.
121	.	SBEL-1
	.	V
	.	V
130	.	DP-1EL
	.	.
133	DP-1EL.....	.
	.	.
136	.	SBEL-2
	.	V
	.	V
145	.	DP-1EL
	.	.
148	DP-1EL.....	.
	.	.
151	.	SBEL-3
	.	V
	.	V
160	.	DP-1EL
	.	.
163	DP-1EL.....	.

166	.	SBEL-4
	.	V
	.	V
175	.	DP-1EL
	.	.
178	.	DP-1EL.....
	.	.
181	.	SBEL-5
	.	V
	.	V
190	.	DP-1EL
	.	.
193	.	DP-1EL.....
	.	.
196	.	SBEL-7
	.	V
	.	V
205	.	DP-1EL
	.	.
208	.	DP-1EL.....
	.	V
	.	V
211	.	DP-2EL
	.	.
214	.	SBEL-8
	.	V
	.	V
223	.	DP-2EL
	.	.
226	.	DP-2EL.....
	.	.
229	.	SBEL-9
	.	V
	.	V
238	.	DP-2EL
	.	.
241	.	DP-2EL.....
	.	.
244	.	SBEL10
	.	.
253	.	DP-2EL.....
	.	.
256	.	SBEL11
	.	V
	.	V
265	.	DP-2EL
	.	.
268	.	DP-2EL.....
	.	.
271	.	SBEL12

```

      .
      .
280  DP-2EL .....
      V
      V
283  DF/LP
      V
      V
291  DP-1EC
      .
295  .          SBEC-1
      .
304  .          .          SBEC-2
      .
313  .          .          .          SBEC-3

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) --FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND
 DEVELOPED LOWER POND AREA WITH LOWER POND
 HEC1 (SCS) 100-YEAR RUNOFF (FC45.DAT)

6 IO OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 OSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

```

*****
*
98 KK * DF/UP *
*
*****

```

```

99 KD OUTPUT CONTROL VARIABLES
      IPRNT      2 PRINT CONTROL
      IPLOT      1 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
      ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)

```

HYDROGRAPH ROUTING DATA

```

101 RS STORAGE ROUTING
      NSTPS      1 NUMBER OF SUBREACHES
      ITYP       STOR TYPE OF INITIAL CONDITION
      RSVRIC     .00 INITIAL CONDITION
      X          .00 WORKING R AND D COEFFICIENT

```

```

102 SV STORAGE .0 .1 1.8 18.6 42.3 79.1 103.3 132.0

```

```

103 SE ELEVATION 6956.00 6958.00 6960.00 6966.00 6970.00 6974.00 6976.00 6978.00

```

```

104 SL LOW-LEVEL OUTLET
      ELEV      6958.00 ELEVATION AT CENTER OF OUTLET
      CAREA     3.14 CROSS-SECTIONAL AREA
      COWL      .60 COEFFICIENT
      EXPL      .50 EXPONENT OF HEAD

```

```

105 SS SPILLWAY
      CREL      6976.00 SPILLWAY CREST ELEVATION
      SPWID     .00 SPILLWAY WIDTH
      COGW      .00 WEIR COEFFICIENT
      EXPW      1.50 EXPONENT OF HEAD

```

COMPUTED OUTFLOW-ELEVATION DATA

```

      OUTFLOW .00 .00 15.40 17.27 19.67 22.83 27.21 33.67 44.15 64.10
ELEVATION 6956.00 6958.00 6959.04 6959.31 6959.69 6960.28 6961.24 6962.97 6966.54 6976.00

```

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

```

      STORAGE .00 .10 .198 1.21 1.54 1.80 2.59 5.28 10.11 18.60
      OUTFLOW .00 .00 15.40 17.27 19.67 21.37 22.83 27.21 33.67 42.74
ELEVATION 6956.00 6958.00 6959.04 6959.31 6959.69 6960.00 6960.28 6961.24 6962.97 6966.00

```

```

      STORAGE 21.80 42.30 79.10 103.30 132.00
      OUTFLOW 44.15 52.34 60.44 64.10 67.57
ELEVATION 6966.54 6970.00 6974.00 6976.00 6978.00

```

HYDROGRAPH AT STATION DF/UP

										HYDROGRAPH AT STATION DF/UP																			
										* DA MON HRMN ORD OUTFLOW STORAGE STAGE * DA MON HRMN ORD OUTFLOW STORAGE STAGE * DA MON HRMN ORD OUTFLOW STORAGE STAGE *																			
DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE									
1	0000	1	0.	.0	6956.0	*	1	0820	101	56.	61.0	6972.0	*	1	1640	201	53.	42.3	6970.0										
1	0005	2	0.	.0	6956.0	*	1	0825	102	56.	60.9	6972.0	*	1	1445	200	50.	18.6	6970.0										

1	0010	3	0.	.0	6956.0	*	1	0830	103	56.	60.8	6972.0	*	1	1650	203	52.	41.8	6969.9
1	0015	4	0.	.0	6956.0	*	1	0835	104	56.	60.6	6972.0	*	1	1655	204	52.	41.5	6969.9
1	0020	5	0.	.0	6956.0	*	1	0840	105	56.	60.5	6972.0	*	1	1700	205	52.	41.3	6969.8
1	0025	6	0.	.0	6956.0	*	1	0845	106	56.	60.4	6972.0	*	1	1705	206	52.	41.1	6969.8
1	0030	7	0.	.0	6956.0	*	1	0850	107	56.	60.2	6972.0	*	1	1710	207	52.	40.8	6969.8
1	0035	8	0.	.0	6956.0	*	1	0855	108	56.	60.1	6971.9	*	1	1715	208	52.	40.6	6969.7
1	0040	9	0.	.0	6956.0	*	1	0900	109	56.	60.0	6971.9	*	1	1720	209	52.	40.4	6969.7
1	0045	10	0.	.0	6956.0	*	1	0905	110	56.	59.8	6971.9	*	1	1725	210	51.	40.2	6969.6
1	0050	11	0.	.0	6956.0	*	1	0910	111	56.	59.7	6971.9	*	1	1730	211	51.	40.0	6969.6
1	0055	12	0.	.0	6956.0	*	1	0915	112	56.	59.6	6971.9	*	1	1735	212	51.	39.7	6969.6
1	0100	13	0.	.0	6956.0	*	1	0920	113	56.	59.5	6971.9	*	1	1740	213	51.	39.5	6969.5
1	0105	14	0.	.0	6956.0	*	1	0925	114	56.	59.3	6971.9	*	1	1745	214	51.	39.3	6969.5
1	0110	15	0.	.0	6956.0	*	1	0930	115	56.	59.2	6971.8	*	1	1750	215	51.	39.1	6969.5
1	0115	16	0.	.0	6956.0	*	1	0935	116	56.	59.1	6971.8	*	1	1755	216	51.	38.9	6969.4
1	0120	17	0.	.0	6956.0	*	1	0940	117	56.	58.9	6971.8	*	1	1800	217	51.	38.6	6969.4
1	0125	18	0.	.0	6956.0	*	1	0945	118	56.	58.8	6971.8	*	1	1805	218	51.	38.4	6969.3
1	0130	19	0.	.0	6956.0	*	1	0950	119	56.	58.7	6971.8	*	1	1810	219	51.	38.2	6969.3
1	0135	20	0.	.0	6956.0	*	1	0955	120	56.	58.5	6971.8	*	1	1815	220	51.	38.0	6969.3
1	0140	21	0.	.0	6956.0	*	1	1000	121	56.	58.4	6971.7	*	1	1820	221	51.	37.8	6969.2
1	0145	22	0.	.0	6956.0	*	1	1005	122	56.	58.2	6971.7	*	1	1825	222	50.	37.6	6969.2
1	0150	23	0.	.0	6956.0	*	1	1010	123	56.	58.1	6971.7	*	1	1830	223	50.	37.3	6969.2
1	0155	24	0.	.0	6956.0	*	1	1015	124	56.	57.9	6971.7	*	1	1835	224	50.	37.1	6969.1
1	0200	25	0.	.0	6956.0	*	1	1020	125	56.	57.7	6971.7	*	1	1840	225	50.	36.9	6969.1
1	0205	26	0.	.0	6956.0	*	1	1025	126	56.	57.5	6971.7	*	1	1845	226	50.	36.7	6969.1
1	0210	27	0.	.0	6956.0	*	1	1030	127	56.	57.3	6971.6	*	1	1850	227	50.	36.5	6969.0
1	0215	28	0.	.0	6956.0	*	1	1035	128	56.	57.1	6971.6	*	1	1855	228	50.	36.3	6969.0
1	0220	29	0.	.0	6956.0	*	1	1040	129	56.	56.9	6971.6	*	1	1900	229	50.	36.1	6968.9
1	0225	30	0.	.0	6956.0	*	1	1045	130	56.	56.8	6971.6	*	1	1905	230	50.	35.9	6968.9
1	0230	31	0.	.0	6956.0	*	1	1050	131	55.	56.6	6971.6	*	1	1910	231	50.	35.6	6968.9
1	0235	32	0.	.0	6956.0	*	1	1055	132	55.	56.4	6971.5	*	1	1915	232	50.	35.4	6968.8
1	0240	33	0.	.0	6956.0	*	1	1100	133	55.	56.2	6971.5	*	1	1920	233	50.	35.2	6968.8
1	0245	34	0.	.0	6956.0	*	1	1105	134	55.	56.0	6971.5	*	1	1925	234	49.	35.0	6968.8
1	0250	35	0.	.0	6956.0	*	1	1110	135	55.	55.8	6971.5	*	1	1930	235	49.	34.8	6968.7
1	0255	36	0.	.0	6956.0	*	1	1115	136	55.	55.6	6971.4	*	1	1935	236	49.	34.6	6968.7
1	0300	37	0.	.0	6956.0	*	1	1120	137	55.	55.4	6971.4	*	1	1940	237	49.	34.4	6968.7
1	0305	38	0.	.0	6956.0	*	1	1125	138	55.	55.2	6971.4	*	1	1945	238	49.	34.2	6968.6
1	0310	39	0.	.0	6956.0	*	1	1130	139	55.	55.1	6971.4	*	1	1950	239	49.	34.0	6968.6
1	0315	40	0.	.0	6956.0	*	1	1135	140	55.	54.9	6971.4	*	1	1955	240	49.	33.8	6968.6
1	0320	41	0.	.0	6956.0	*	1	1140	141	55.	54.7	6971.3	*	1	2000	241	49.	33.6	6968.5
1	0325	42	0.	.0	6956.0	*	1	1145	142	55.	54.5	6971.3	*	1	2005	242	49.	33.3	6968.5
1	0330	43	0.	.0	6956.0	*	1	1150	143	55.	54.3	6971.3	*	1	2010	243	49.	33.1	6968.4
1	0335	44	0.	.0	6956.0	*	1	1155	144	55.	54.1	6971.3	*	1	2015	244	49.	32.8	6968.4
1	0340	45	0.	.0	6956.0	*	1	1200	145	55.	54.0	6971.3	*	1	2020	245	48.	32.6	6968.4
1	0345	46	0.	.0	6956.0	*	1	1205	146	55.	53.8	6971.2	*	1	2025	246	48.	32.3	6968.3
1	0350	47	0.	.0	6956.0	*	1	1210	147	55.	53.6	6971.2	*	1	2030	247	48.	32.1	6968.3
1	0355	48	0.	.0	6956.0	*	1	1215	148	55.	53.4	6971.2	*	1	2035	248	48.	31.8	6968.2
1	0400	49	0.	.0	6956.0	*	1	1220	149	55.	53.2	6971.2	*	1	2040	249	48.	31.5	6968.2
1	0405	50	0.	.0	6956.0	*	1	1225	150	55.	53.0	6971.2	*	1	2045	250	48.	31.3	6968.1
1	0410	51	0.	.0	6956.0	*	1	1230	151	55.	52.9	6971.1	*	1	2050	251	48.	31.0	6968.1
1	0415	52	0.	.0	6956.0	*	1	1235	152	55.	52.7	6971.1	*	1	2055	252	48.	30.7	6968.0
1	0420	53	0.	.0	6956.0	*	1	1240	153	55.	52.5	6971.1	*	1	2100	253	48.	30.5	6968.0
1	0425	54	0.	.0	6956.0	*	1	1245	154	55.	52.3	6971.1	*	1	2105	254	48.	30.2	6968.0
1	0430	55	0.	.0	6956.0	*	1	1250	155	55.	52.1	6971.1	*	1	2110	255	47.	30.0	6967.9
1	0435	56	0.	.0	6956.0	*	1	1255	156	54.	51.9	6971.0	*	1	2115	256	47.	29.7	6967.9
1	0440	57	0.	.0	6956.0	*	1	1300	157	54.	51.8	6971.0	*	1	2120	257	47.	29.4	6967.8
1	0445	58	0.	.0	6956.0	*	1	1305	158	54.	51.6	6971.0	*	1	2125	258	47.	29.2	6967.8
1	0450	59	0.	.0	6956.0	*	1	1310	159	54.	51.4	6971.0	*	1	2130	259	47.	28.9	6967.7
1	0455	60	0.	.0	6956.0	*	1	1315	160	54.	51.2	6971.0	*	1	2135	260	47.	28.7	6967.7
1	0500	61	0.	.0	6956.0	*	1	1320	161	54.	51.0	6970.9	*	1	2140	261	47.	28.4	6967.7
1	0505	62	0.	.0	6956.0	*	1	1325	162	54.	50.8	6970.9	*	1	2145	262	47.	28.2	6967.6
1	0510	63	0.	.0	6956.0	*	1	1330	163	54.	50.6	6970.9	*	1	2150	263	47.	27.9	6967.6
1	0515	64	0.	.0	6956.0	*	1	1335	164	54.	50.4	6970.9	*	1	2155	264	46.	27.6	6967.5
1	0520	65	0.	.0	6956.8	*	1	1340	165	54.	50.2	6970.9	*	1	2200	265	46.	27.4	6967.5
1	0525	66	4.	.3	6958.3	*	1	1345	166	54.	50.0	6970.8	*	1	2205	266	46.	27.1	6967.4
1	0530	67	19.	1.4	6959.5	*	1	1350	167	54.	49.8	6970.8	*	1	2210	267	46.	26.9	6967.4
1	0535	68	25.	4.1	6960.8	*	1	1355	168	54.	49.6	6970.8	*	1	2215	268	46.	26.7	6967.4

1	0540	67	32.	7.1	6762.8	*	1	1400	169	54.	49.4	6970.8	*	1	2220	269	46.	26.4	6967.3
1	0545	70	40.	16.5	6965.2	*	1	1405	170	54.	49.1	6970.7	*	1	2225	270	46.	26.1	6967.3
1	0550	71	46.	25.6	6967.2	*	1	1410	171	54.	48.9	6970.7	*	1	2230	271	46.	25.9	6967.2
1	0555	72	49.	34.8	6968.7	*	1	1415	172	54.	48.7	6970.7	*	1	2235	272	46.	25.6	6967.2
1	0600	73	52.	42.3	6970.0	*	1	1420	173	54.	48.5	6970.7	*	1	2240	273	46.	25.4	6967.1
1	0605	74	53.	47.5	6970.6	*	1	1425	174	54.	48.3	6970.7	*	1	2245	274	45.	25.2	6967.1
1	0610	75	54.	50.9	6970.9	*	1	1430	175	54.	48.1	6970.6	*	1	2250	275	45.	24.9	6967.1
1	0615	76	55.	53.1	6971.2	*	1	1435	176	54.	47.9	6970.6	*	1	2255	276	45.	24.7	6967.0
1	0620	77	55.	54.8	6971.4	*	1	1440	177	54.	47.7	6970.6	*	1	2300	277	45.	24.4	6967.0
1	0625	78	55.	56.0	6971.5	*	1	1445	178	53.	47.5	6970.6	*	1	2305	278	45.	24.2	6966.9
1	0630	79	56.	57.0	6971.6	*	1	1450	179	53.	47.2	6970.5	*	1	2310	279	45.	23.9	6966.9
1	0635	80	56.	57.7	6971.7	*	1	1455	180	53.	47.0	6970.5	*	1	2315	280	45.	23.7	6966.9
1	0640	81	56.	58.2	6971.7	*	1	1500	181	53.	46.8	6970.5	*	1	2320	281	45.	23.4	6966.8
1	0645	82	56.	58.7	6971.8	*	1	1505	182	53.	46.6	6970.5	*	1	2325	282	45.	23.2	6966.8
1	0650	83	56.	59.1	6971.8	*	1	1510	183	53.	46.4	6970.4	*	1	2330	283	45.	23.0	6966.7
1	0655	84	56.	59.5	6971.9	*	1	1515	184	53.	46.1	6970.4	*	1	2335	284	45.	22.8	6966.7
1	0700	85	56.	59.8	6971.9	*	1	1520	185	53.	45.9	6970.4	*	1	2340	285	44.	22.6	6966.7
1	0705	86	56.	60.0	6971.9	*	1	1525	186	53.	45.7	6970.4	*	1	2345	286	44.	22.3	6966.6
1	0710	87	56.	60.2	6971.9	*	1	1530	187	53.	45.4	6970.3	*	1	2350	287	44.	22.1	6966.6
1	0715	88	56.	60.3	6972.0	*	1	1535	188	53.	45.2	6970.3	*	1	2355	288	44.	21.8	6966.5
1	0720	89	56.	60.5	6972.0	*	1	1540	189	53.	45.0	6970.3	*	2	0000	289	44.	21.6	6966.5
1	0725	90	56.	60.6	6972.0	*	1	1545	190	53.	44.7	6970.3	*	2	0005	290	44.	21.3	6966.5
1	0730	91	56.	60.7	6972.0	*	1	1550	191	53.	44.5	6970.2	*	2	0010	291	44.	21.0	6966.4
1	0735	92	56.	60.8	6972.0	*	1	1555	192	53.	44.3	6970.2	*	2	0015	292	44.	20.7	6966.4
1	0740	93	56.	60.9	6972.0	*	1	1600	193	53.	44.0	6970.2	*	2	0020	293	44.	20.4	6966.3
1	0745	94	56.	61.1	6972.0	*	1	1605	194	53.	43.8	6970.2	*	2	0025	294	43.	20.1	6966.3
1	0750	95	56.	61.2	6972.1	*	1	1610	195	53.	43.6	6970.1	*	2	0030	295	43.	19.8	6966.2
1	0755	96	57.	61.3	6972.1	*	1	1615	196	53.	43.4	6970.1	*	2	0035	296	43.	19.5	6966.2
1	0800	97	57.	61.3	6972.1	*	1	1620	197	53.	43.1	6970.1	*	2	0040	297	43.	19.2	6966.1
1	0805	98	57.	61.3	6972.1	*	1	1625	198	52.	42.9	6970.1	*	2	0045	298	43.	18.9	6966.1
1	0810	99	57.	61.2	6972.1	*	1	1630	199	52.	42.7	6970.0	*	2	0050	299	43.	18.6	6966.0
1	0815	100	56.	61.1	6972.0	*	1	1635	200	52.	42.4	6970.0	*	2	0055	300	42.	18.3	6965.9

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+	(CFS)	(CFS)				
+	57.	8.00	56.	42.	40.	40.
			(INCHES)			
			.629	1.876	1.876	1.876
			(AC-FT)			
			2E.	83.	83.	83.
PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE				
+	(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
	61.	8.00	56.	35.	34.	34.
PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE				
+	(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
	6972.06	8.00	6971.73	6967.13	6966.72	6966.72

CUMULATIVE AREA = .83 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 *
 283 KK * DF/LF *
 *

284 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND

HYDROGRAPH ROUTING DATA

286 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

287 SV	STORAGE	.0	6.5	17.2	33.0	42.8	54.0	80.8	96.4	100.9	114.2
288 SE	ELEVATION	6790.00	6800.00	6804.00	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00

289 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COOL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

290 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COGW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00

STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	33.	.0	6790.0	*	1		0820	101	111.	43.2	6810.1	*	1		1640	201	98.	21.5	6805.1
1		0005	2	32.	-.1	6790.0	*	1		0825	102	111.	43.0	6810.0	*	1		1645	202	98.	21.3	6805.0
1		0010	3	32.	-.1	6790.0	*	1		0830	103	111.	42.9	6810.0	*	1		1650	203	97.	21.1	6805.0
1		0015	4	32.	-.1	6790.0	*	1		0835	104	111.	42.7	6810.0	*	1		1655	204	97.	20.9	6804.9
1		0020	5	32.	-.1	6790.0	*	1		0840	105	111.	42.5	6809.9	*	1		1700	205	97.	20.6	6804.9
1		0025	6	32.	-.1	6790.0	*	1		0845	106	111.	42.3	6809.9	*	1		1705	206	97.	20.4	6804.8
1		0030	7	32.	-.1	6790.0	*	1		0850	107	110.	42.1	6809.9	*	1		1710	207	97.	20.2	6804.8
1		0035	8	32.	-.1	6790.0	*	1		0855	108	110.	41.9	6809.8	*	1		1715	208	97.	20.0	6804.7
1		0040	9	32.	-.1	6790.0	*	1		0900	109	110.	41.7	6809.8	*	1		1720	209	96.	19.8	6804.7
1		0045	10	32.	-.1	6790.0	*	1		0905	110	110.	41.5	6809.7	*	1		1725	210	96.	19.6	6804.6
1		0050	11	32.	-.1	6790.0	*	1		0910	111	110.	41.3	6809.7	*	1		1730	211	96.	19.3	6804.5
1		0055	12	32.	-.1	6790.0	*	1		0915	112	110.	41.1	6809.7	*	1		1735	212	96.	19.1	6804.5
1		0100	13	32.	-.1	6790.0	*	1		0920	113	110.	40.9	6809.6	*	1		1740	213	96.	18.9	6804.4
1		0105	14	32.	-.1	6790.0	*	1		0925	114	110.	40.7	6809.6	*	1		1745	214	96.	18.7	6804.4
1		0110	15	32.	-.1	6790.0	*	1		0930	115	110.	40.5	6809.5	*	1		1750	215	95.	18.5	6804.3
1		0115	16	32.	-.1	6790.0	*	1		0935	116	110.	40.3	6809.5	*	1		1755	216	95.	18.3	6804.3
1		0120	17	32.	-.1	6790.0	*	1		0940	117	109.	40.1	6809.5	*	1		1800	217	95.	18.1	6804.2
1		0125	18	32.	-.1	6790.0	*	1		0945	118	109.	39.9	6809.4	*	1		1805	218	95.	17.8	6804.2
1		0130	19	32.	-.1	6790.0	*	1		0950	119	109.	39.8	6809.4	*	1		1810	219	95.	17.6	6804.1
1		0135	20	32.	-.1	6790.0	*	1		0955	120	109.	39.6	6809.3	*	1		1815	220	95.	17.4	6804.1
1		0140	21	32.	-.1	6790.0	*	1		1000	121	109.	39.4	6809.3	*	1		1820	221	95.	17.2	6804.0
1		0145	22	32.	-.1	6790.0	*	1		1005	122	109.	39.2	6809.3	*	1		1825	222	94.	17.0	6803.9
1		0150	23	32.	-.1	6790.0	*	1		1010	123	109.	38.9	6809.2	*	1		1830	223	94.	16.8	6803.8
1		0155	24	32.	-.1	6790.0	*	1		1015	124	109.	38.7	6809.2	*	1		1835	224	94.	16.6	6803.8
1		0200	25	32.	-.1	6790.0	*	1		1020	125	109.	38.5	6809.1	*	1		1840	225	94.	16.4	6803.7
1		0205	26	32.	-.1	6790.0	*	1		1025	126	108.	38.3	6809.1	*	1		1845	226	93.	16.2	6803.6
1		0210	27	32.	-.1	6790.0	*	1		1030	127	108.	38.1	6809.0	*	1		1850	227	93.	16.0	6803.5
1		0215	28	32.	-.1	6790.0	*	1		1035	128	108.	37.8	6809.0	*	1		1855	228	93.	15.8	6803.5
1		0220	29	32.	-.1	6790.0	*	1		1040	129	108.	37.6	6808.9	*	1		1900	229	93.	15.5	6803.4
1		0225	30	32.	-.1	6790.0	*	1		1045	130	108.	37.4	6808.9	*	1		1905	230	92.	15.3	6803.3
1		0230	31	32.	-.1	6790.0	*	1		1050	131	108.	37.2	6808.8	*	1		1910	231	92.	15.1	6803.2
1		0235	32	32.	-.1	6790.0	*	1		1055	132	108.	36.9	6808.8	*	1		1915	232	92.	14.9	6803.2
1		0240	33	32.	-.1	6790.0	*	1		1100	133	108.	36.7	6808.8	*	1		1920	233	92.	14.7	6803.1
1		0245	34	32.	-.1	6790.0	*	1		1105	134	107.	36.5	6808.7	*	1		1925	234	91.	14.5	6803.0
1		0250	35	32.	-.1	6790.0	*	1		1110	135	107.	36.2	6808.7	*	1		1930	235	91.	14.4	6802.9
1		0255	36	32.	-.1	6790.0	*	1		1115	136	107.	36.0	6808.6	*	1		1935	236	91.	14.2	6802.9
1		0300	37	32.	-.1	6790.0	*	1		1120	137	107.	35.8	6808.6	*	1		1940	237	91.	14.0	6802.8
1		0305	38	32.	-.1	6790.0	*	1		1125	138	107.	35.6	6808.5	*	1		1945	238	90.	13.8	6802.7
1		0310	39	32.	-.1	6790.0	*	1		1130	139	107.	35.3	6808.5	*	1		1950	239	90.	13.6	6802.6
1		0315	40	32.	-.1	6790.0	*	1		1135	140	107.	35.1	6808.4	*	1		1955	240	90.	13.4	6802.6
1		0320	41	32.	-.1	6790.0	*	1		1140	141	107.	34.9	6808.4	*	1		2000	241	90.	13.2	6802.5
1		0325	42	32.	-.1	6790.0	*	1		1145	142	107.	34.7	6808.3	*	1		2005	242	90.	13.0	6802.4
1		0330	43	32.	-.1	6790.0	*	1		1150	143	106.	34.5	6808.3	*	1		2010	243	89.	12.8	6802.3
1		0335	44	32.	-.1	6790.0	*	1		1155	144	106.	34.2	6808.3	*	1		2015	244	89.	12.6	6802.3
1		0340	45	32.	-.1	6790.0	*	1		1200	145	106.	34.0	6808.2	*	1		2020	245	89.	12.3	6802.2
1		0345	46	32.	-.1	6790.0	*	1		1205	146	106.	33.8	6808.2	*	1		2025	246	89.	12.1	6802.1
1		0350	47	32.	-.1	6790.0	*	1		1210	147	106.	33.6	6808.1	*	1		2030	247	88.	11.9	6802.0
1		0355	48	32.	-.1	6790.0	*	1		1215	148	106.	33.4	6808.1	*	1		2035	248	88.	11.7	6801.9
1		0400	49	32.	-.1	6790.0	*	1		1220	149	106.	33.1	6808.0	*	1		2040	249	88.	11.5	6801.8

1	0400	50	32.	-1.1	6790.0	*	1	1220	150	106.	32.9	6808.0	*	1	2045	250	87.	11.2	6801.8
1	0410	51	32.	-1.1	6790.0	*	1	1230	151	105.	32.7	6807.9	*	1	2050	251	87.	11.0	6801.7
1	0415	52	32.	-1.1	6790.0	*	1	1235	152	105.	32.5	6807.9	*	1	2055	252	87.	10.8	6801.6
1	0420	53	32.	-1.1	6790.0	*	1	1240	153	105.	32.3	6807.8	*	1	2100	253	87.	10.6	6801.5
1	0425	54	32.	-1.1	6790.0	*	1	1245	154	105.	32.1	6807.8	*	1	2105	254	86.	10.4	6801.4
1	0430	55	32.	-1.1	6790.0	*	1	1250	155	105.	31.8	6807.7	*	1	2110	255	86.	10.1	6801.4
1	0435	56	32.	-1.1	6790.0	*	1	1255	156	105.	31.6	6807.7	*	1	2115	256	86.	9.9	6801.3
1	0440	57	32.	-1.1	6790.0	*	1	1300	157	105.	31.4	6807.6	*	1	2120	257	86.	9.7	6801.2
1	0445	58	32.	-1.1	6790.0	*	1	1305	158	104.	31.2	6807.5	*	1	2125	258	85.	9.5	6801.1
1	0450	59	32.	-1.1	6790.0	*	1	1310	159	104.	31.0	6807.5	*	1	2130	259	85.	9.3	6801.0
1	0455	60	32.	-1.1	6790.0	*	1	1315	160	104.	30.7	6807.4	*	1	2135	260	85.	9.1	6801.0
1	0500	61	32.	-1.1	6790.0	*	1	1320	161	104.	30.5	6807.4	*	1	2140	261	85.	8.9	6800.9
1	0505	62	32.	-1.1	6790.0	*	1	1325	162	104.	30.3	6807.3	*	1	2145	262	84.	8.6	6800.8
1	0510	63	32.	-1.1	6790.0	*	1	1330	163	104.	30.1	6807.3	*	1	2150	263	84.	8.4	6800.7
1	0515	64	32.	-1.1	6790.0	*	1	1335	164	103.	29.9	6807.2	*	1	2155	264	84.	8.2	6800.6
1	0520	65	32.	-1.1	6790.0	*	1	1340	165	103.	29.6	6807.1	*	1	2200	265	84.	8.0	6800.6
1	0525	66	32.	-1.1	6790.0	*	1	1345	166	103.	29.4	6807.1	*	1	2205	266	83.	7.8	6800.5
1	0530	67	35.	-1.1	6790.2	*	1	1350	167	103.	29.2	6807.0	*	1	2210	267	83.	7.6	6800.4
1	0535	68	48.	1.4	6792.2	*	1	1355	168	103.	29.0	6807.0	*	1	2215	268	83.	7.4	6800.3
1	0540	69	72.	4.8	6797.3	*	1	1400	169	103.	28.8	6806.9	*	1	2220	269	83.	7.2	6800.3
1	0545	70	86.	10.2	6801.4	*	1	1405	170	103.	28.5	6806.9	*	1	2225	270	82.	7.0	6800.2
1	0550	71	94.	16.8	6803.8	*	1	1410	171	102.	28.3	6806.8	*	1	2230	271	82.	6.8	6800.1
1	0555	72	99.	23.5	6805.6	*	1	1415	172	102.	28.1	6806.8	*	1	2235	272	82.	6.6	6800.0
1	0600	73	103.	29.6	6807.1	*	1	1420	173	102.	27.9	6806.7	*	1	2240	273	81.	6.4	6799.9
1	0605	74	106.	34.5	6808.3	*	1	1425	174	102.	27.6	6806.6	*	1	2245	274	80.	6.2	6799.5
1	0610	75	108.	37.8	6809.0	*	1	1430	175	102.	27.4	6806.6	*	1	2250	275	79.	6.0	6799.2
1	0615	76	109.	39.8	6809.4	*	1	1435	176	102.	27.2	6806.5	*	1	2255	276	78.	5.8	6798.9
1	0620	77	110.	41.1	6809.6	*	1	1440	177	101.	27.0	6806.5	*	1	2300	277	77.	5.6	6798.7
1	0625	78	110.	41.9	6809.8	*	1	1445	178	101.	26.7	6806.4	*	1	2305	278	76.	5.5	6798.4
1	0630	79	111.	42.5	6809.9	*	1	1450	179	101.	26.5	6806.4	*	1	2310	279	75.	5.3	6798.2
1	0635	80	111.	42.9	6810.0	*	1	1455	180	101.	26.3	6806.3	*	1	2315	280	74.	5.1	6797.9
1	0640	81	111.	43.2	6810.1	*	1	1500	181	101.	26.1	6806.2	*	1	2320	281	73.	5.0	6797.7
1	0645	82	111.	43.5	6810.1	*	1	1505	182	101.	25.9	6806.2	*	1	2325	282	72.	4.9	6797.5
1	0650	83	111.	43.6	6810.2	*	1	1510	183	101.	25.6	6806.1	*	1	2330	283	72.	4.7	6797.3
1	0655	84	111.	43.8	6810.2	*	1	1515	184	100.	25.4	6806.1	*	1	2335	284	71.	4.6	6797.1
1	0700	85	111.	43.9	6810.2	*	1	1520	185	100.	25.2	6806.0	*	1	2340	285	70.	4.5	6796.9
1	0705	86	111.	44.0	6810.2	*	1	1525	186	100.	24.9	6806.0	*	1	2345	286	69.	4.4	6796.7
1	0710	87	111.	44.0	6810.2	*	1	1530	187	100.	24.7	6805.9	*	1	2350	287	69.	4.2	6796.5
1	0715	88	111.	44.0	6810.2	*	1	1535	188	100.	24.5	6805.8	*	1	2355	288	68.	4.1	6796.3
1	0720	89	111.	44.0	6810.2	*	1	1540	189	100.	24.2	6805.8	*	2	0000	289	67.	4.0	6796.1
1	0725	90	111.	44.0	6810.2	*	1	1545	190	99.	24.0	6805.7	*	2	0005	290	67.	3.9	6795.9
1	0730	91	111.	44.0	6810.2	*	1	1550	191	99.	23.8	6805.7	*	2	0010	291	66.	3.7	6795.7
1	0735	92	111.	44.0	6810.2	*	1	1555	192	99.	23.6	6805.6	*	2	0015	292	65.	3.6	6795.5
1	0740	93	111.	43.9	6810.2	*	1	1600	193	99.	23.3	6805.6	*	2	0020	293	64.	3.5	6795.3
1	0745	94	111.	43.9	6810.2	*	1	1605	194	99.	23.1	6805.5	*	2	0025	294	63.	3.3	6795.1
1	0750	95	111.	43.9	6810.2	*	1	1610	195	99.	22.9	6805.4	*	2	0030	295	62.	3.2	6795.0
1	0755	96	111.	43.8	6810.2	*	1	1615	196	98.	22.7	6805.4	*	2	0035	296	61.	3.1	6794.8
1	0800	97	111.	43.7	6810.2	*	1	1620	197	98.	22.4	6805.3	*	2	0040	297	61.	3.0	6794.6
1	0805	98	111.	43.6	6810.2	*	1	1625	198	98.	22.2	6805.3	*	2	0045	298	60.	2.9	6794.4
1	0810	99	111.	43.5	6810.1	*	1	1630	199	98.	22.0	6805.2	*	2	0050	299	59.	2.8	6794.3
1	0815	100	111.	43.4	6810.1	*	1	1635	200	98.	21.8	6805.2	*	2	0055	300	58.	2.7	6794.1

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 111.	7.25	(INCHES)	109.	84.	82.	82.
		(AC-FT)	.748	2.297	2.331	2.331
			54.	167.	169.	169.
PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
+ (AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
+ 44.	7.25		40.	20.	19.	19.

+		DP/UF	57.	8.00	56.	42.	40.	.83		
									6972.06	8.00
+	ROUTED TO	DP-1EL	57.	8.08	56.	42.	40.	.83		
+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06		
+	2 COMBINED AT	DP-1EL	215.	5.75	72.	47.	45.	.89		
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03		
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03		
+	2 COMBINED AT	DP-1EL	256.	5.75	76.	49.	47.	.91		
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03		
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03		
+	2 COMBINED AT	DP-1EL	304.	5.75	82.	50.	48.	.94		
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03		
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03		
+	2 COMBINED AT	DP-1EL	394.	5.75	91.	53.	51.	.97		
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03		
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03		
+	2 COMBINED AT	DP-1EL	465.	5.75	98.	55.	53.	1.00		
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03		
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03		
+	2 COMBINED AT	DP-1EL	552.	5.75	108.	58.	56.	1.03		
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03		
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03		
+	2 COMBINED AT	DP-1EL	627.	5.75	115.	60.	58.	1.06		

+	ROUTED TO	DP-2EL	617.	5.92	119.	61.	59.	1.06		
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03		
+	ROUTED TO	DP-2EL	51.	6.00	6.	2.	2.	.03		
+	2 COMBINED AT	DP-2EL	665.	5.92	125.	63.	60.	1.09		
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07		
+	ROUTED TO	DP-2EL	117.	5.83	13.	4.	4.	.07		
+	2 COMBINED AT	DP-2EL	778.	5.92	138.	67.	64.	1.16		
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04		
+	2 COMBINED AT	DP-2EL	820.	5.92	145.	69.	67.	1.21		
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05		
+	ROUTED TO	DP-2EL	115.	5.92	14.	4.	4.	.05		
+	2 COMBINED AT	DP-2EL	935.	5.92	159.	73.	71.	1.25		
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11		
+	2 COMBINED AT	DP-2EL	1073.	5.92	178.	80.	77.	1.36		
+	ROUTED TO	DF/LP	111.	7.25	109.	84.	82.	1.36	6810.22	7.25
+	ROUTED TO	DP-1EC	111.	7.25	109.	84.	82.	1.36		
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01		
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03		
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05		

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

1

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND ENLARGED									
4	ID	HEC1 (SLS) 100-YEAR RUNOFF (FC46.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								
8	FG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	PK	SBEU-1									
21	PK	RUNOFF FROM SBEU-1									

127 HC 2
 128 KK SBEL-2
 129 KM RUNOFF FROM SBEL-2
 130 BA 0.0251
 131 PR 1
 132 PW 1
 133 PT 2
 134 PW 1
 135 LS 0 80.2
 136 UD 0.13

HEC-1 INPUT

1

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

137 KK DP-1EL
 138 KM ROUTE SBEL-2 TO DP-1EL
 139 RK 2000 0.0400 0.016 0 TRAP 8 10

 140 KK DP-1EL
 141 KM COMBINE FLOWS AT DP-1EL
 142 HC 2

 143 KK SBEL-3
 144 KM RUNOFF FROM SBEL-3
 145 BA 0.0320
 146 PR 1
 147 PW 1
 148 PT 2
 149 PW 1
 150 LS 0 90.0
 151 UD 0.12

 152 KK DP-1EL
 153 KM ROUTE SBEL-3 TO DP-1EL
 154 RK 1000 0.0500 0.016 0 TRAP 8 10

 155 KK DP-1EL
 156 KM COMBINE FLOWS AT DP-1EL
 157 HC 2

 158 KK SBEL-4
 159 KM RUNOFF FROM SBEL-4
 160 BA 0.0287
 161 PR 1
 162 PW 1
 163 PT 2
 164 PW 1
 165 LS 0 85.0
 166 UD 0.12

 167 KK DP-1EL
 168 KM ROUTE SBEL-4 TO DP-1EL
 169 RK 1000 0.0500 0.016 0 TRAP 8 10

 170 KK DP-1EL
 171 KM COMBINE FLOWS AT DP-1EL
 172 HC 2

 173 KK SBEL-5
 174 KM RUNOFF FROM SBEL-5
 175 BA 0.0334
 176 PR 1
 177 PW 1
 178 PT 2

179 PW 1
 180 LS 0 88.0
 181 UD 0.12

HEC-1 INPUT

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

182 KK DP-1EL
 183 KM ROUTE SBEL-5 TO DP-1EL
 184 RK 2200 0.0360 0.016 0 TRAP 8 10

185 KK DP-1EL
 186 KM COMBINE FLOWS AT DP-1EL
 187 HC 2

188 KK SBEL-7
 189 KM RUNOFF FROM SBEL-7
 190 BA 0.0294
 191 PR 1
 192 PW 1
 193 PT 2
 194 PW 1
 195 LS 0 86.1
 196 UD 0.12

197 KK DP-1EL
 198 KM ROUTE SBEL-7 TO DP-1EL
 199 RK 700 0.0710 0.016 0 TRAP 8 10

200 KK DP-1EL
 201 KM COMBINE FLOWS AT DP-1EL
 202 HC 2

203 KK DP-2EL
 204 KM ROUTE DP-1EL TO DP-2EL
 205 RK 3900 0.0240 0.045 0 TRAP 10 3

206 KK SBEL-8
 207 KM RUNOFF FROM SBEL-8
 208 BA 0.0302
 209 PR 1
 210 PW 1
 211 PT 2
 212 PW 1
 213 LS 0 75.0
 214 UD 0.13

215 KK DP-2EL
 216 KM ROUTE SBEL-8 TO DP-2EL
 217 RK 2900 0.0250 0.045 0 TRAP 10 3

218 KK DP-2EL
 219 KM COMBINE FLOWS AT DP-2EL
 220 HC 2

221 KK SBEL-9
 222 KM RUNOFF FROM SBEL-9
 223 BA 0.0694
 224 PR 1
 225 PW 1
 226 PT 2

HEC-1 INPUT

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

227	FW	1								
228	LS	0	77.1							
229	UD	0.14								
230	KK	DP-2EL								
231	KM	ROUTE SBEL-9 TO DP-2EL								
232	RK	1300	0.0180	0.045	0	TRAP	10		3	
233	KK	DP-2EL								
234	KM	COMBINE FLOWS AT DP-2EL								
235	HC	2								
236	KK	SBEL10								
237	KM	RUNOFF FROM SBEL-10								
238	BA	0.0434								
239	PR	1								
240	PW	1								
241	PT	2								
242	PW	1								
243	LS	0	76.0							
244	UD	0.12								
245	KK	DP-2EL								
246	KM	COMBINE FLOWS AT DP-2EL								
247	HC	2								
248	KK	SBEL11								
249	KM	RUNOFF FROM SBEL-11								
250	BA	0.0412								
251	PR	1								
252	PW	1								
253	PT	2								
254	PW	1								
255	LS	0	84.9							
256	UD	0.12								
257	KK	DP-2EL								
258	KM	ROUTE SBEL-11 TO DP-2EL								
259	RK	2900	0.0250	0.045	0	TRAP	10		3	
260	KK	DP-2EL								
261	KM	COMBINE FLOWS AT DP-2EL								
262	HC	2								
263	KK	SBEL12								
264	KM	RUNOFF FROM SBEL-12								
265	DA	0.1063								
266	PR	1								
267	PW	1								
268	PT	2								
269	PW	1								
270	LS	0	77.4							
271	UD	0.16								

1

HEC-1 INPUT

PAGE 7

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

272	KK	DP-2EL								
273	KM	COMBINE FLOWS AT DP-2EL								
274	HC	2								
275	KK	DF/LP								
276	KO	2								
277	KH	ROUTE FLOW THROUGH DETENTION FACILITY, LOWER POND (DF/LP)								
278	RS	1	STOR	0						

279	SV	0.0	12.0	30.0	46.0	55.0	73.0	100.0	115.0	120.0	135.0
280	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
281	SL	6788.0	4.91	0.60	0.50						
282	SS	6818.5									
283	KK	DP-1EC									
284	KM	ROUTE DF/LP TO DP-1EC									
285	RK	415	0.0250	0.015	0	CIRC	2.50				
286	KM	FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK									
287	KK	SBEC-1									
288	KM	RUNOFF FROM SBEC-1									
289	BA	0.0138									
290	PR	1									
291	PW	1									
292	PT	2									
293	PW	1									
294	LS	0	80.0								
295	UD	0.11									
296	KK	SBEC-2									
297	KM	RUNOFF FROM BASIN SBEC-2									
298	BA	0.0263									
299	PR	1									
300	PW	1									
301	PT	2									
302	PW	1									
303	LS	0	69.0								
304	UD	0.13									
305	KK	SBEC-3									
306	KM	RUNOFF FROM SBEC-3									
307	BA	0.0470									
308	PR	1									
309	PW	1									
310	PT	2									
311	PW	1									
312	LS	0	72.0								
313	UD	0.15									
314	ZZ										

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE NO.	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
20	SBEC-1	
	V	
	V	
29	DP-1EU	
	.	
	.	
32	SBEC-2	
	.	
	.	
41	DP-1EU.....	
	.	
	.	
44	SBEC-3	
	V	
	V	
53	DP-1EU	
	.	
	.	
56	DP-1EU.....	

59	.	SBEU-4	.
	.		.
68	DP-1EU.....		.
	.		.
71	.	SBEU-5	.
	.		.
80	DP-1EU.....		.
	.		.
83	.	SBEU-6	.
	.	∨	.
	.	∨	.
92	.	DP-1EU	.
	.		.
95	DP-1EU.....		.
	∨		.
	∨		.
98	DP-1EL		.
	.		.
101	.	SBEL-6	.
	.		.
110	DP-1EL.....		.
	.		.
113	.	SBEL-1	.
	.	∨	.
	.	∨	.
122	.	DP-1EL	.
	.		.
125	DP-1EL.....		.
	.		.
128	.	SBEL-2	.
	.	∨	.
	.	∨	.
137	.	DP-1EL	.
	.		.
140	DP-1EL.....		.
	.		.
143	.	SBEL-3	.
	.	∨	.
	.	∨	.
152	.	DP-1EL	.
	.		.
155	DP-1EL.....		.
	.		.
158	.	SBEL-4	.
	.	∨	.
	.	∨	.
167	.	DP-1EL	.
	.		.
170	DP-1EL.....		.

173	.	SBEL-5
	.	V
182	.	V
	.	DP-1EL
	.	.
185	.	DP-1EL.....
	.	.
188	.	SBEL-7
	.	V
	.	V
197	.	DP-1EL
	.	.
200	.	DP-1EL.....
	.	V
	.	V
203	.	DP-2EL
	.	.
206	.	SBEL-8
	.	V
	.	V
215	.	DP-2EL
	.	.
218	.	DP-2EL.....
	.	.
221	.	SBEL-9
	.	V
	.	V
230	.	DP-2EL
	.	.
233	.	DP-2EL.....
	.	.
236	.	SBEL10
	.	.
245	.	DP-2EL.....
	.	.
248	.	SBEL11
	.	V
	.	V
257	.	DP-2EL
	.	.
260	.	DP-2EL.....
	.	.
263	.	SBEL12
	.	.
272	.	DP-2EL.....
	.	V
	.	V
275	.	DP/LP
	.	V
	.	V
283	.	DP-1EC

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 *
 275 KK * DF/LP *
 * *

276 KD OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

278 RS STORAGE ROUTING
 NSTPC 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

279 SV STORAGE .0 12.0 30.0 46.0 55.0 73.0 100.0 115.0 120.0 135.0

280 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6819.50 6820.00

281 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COEF .50 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

282 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COEW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	99.64	130.40
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.61	6795.07	6799.26	6805.43	6818.50

COMPUTED STORAGE OUTFLOW-ELEVATION DATA

STORAGE	.00	.45	1.04	1.84	2.94	4.51	6.74	9.74	13.61	18.40
---------	-----	-----	------	------	------	------	------	------	-------	-------

OUTFLOW ELEVATION	33.41 6790.00	36.42 6790.38	40.03 6790.87	44.43 6791.54	49.92 6792.46	56.95 6793.81	66.29 6795.87	79.29 6799.26	81.85 6800.00	94.51 6804.00
STORAGE	35.72	46.00	55.00	73.00	100.00	115.00	120.00	135.00		
OUTFLOW ELEVATION	98.64 6805.43	103.66 6808.00	110.82 6810.00	115.75 6812.00	125.02 6816.00	129.41 6818.00	130.48 6818.50	133.65 6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	33.	.0	6790.0	*	1		0820	101	125.	100.6	6816.1	*	1		1640	201	109.	51.5	6809.2
1		0005	2	33.	-.1	6790.0	*	1		0825	102	125.	100.2	6816.0	*	1		1645	202	108.	50.9	6809.1
1		0010	3	33.	-.1	6790.0	*	1		0830	103	125.	99.0	6816.0	*	1		1650	203	108.	50.4	6809.0
1		0015	4	33.	-.1	6790.0	*	1		0835	104	125.	99.4	6815.9	*	1		1655	204	108.	49.9	6808.9
1		0020	5	33.	-.1	6790.0	*	1		0840	105	125.	99.0	6815.8	*	1		1700	205	108.	49.4	6808.8
1		0025	6	33.	-.1	6790.0	*	1		0845	106	125.	98.5	6815.8	*	1		1705	206	107.	48.9	6808.6
1		0030	7	33.	-.1	6790.0	*	1		0850	107	124.	98.1	6815.7	*	1		1710	207	107.	48.3	6808.5
1		0035	8	33.	-.1	6790.0	*	1		0855	108	124.	97.7	6815.7	*	1		1715	208	107.	47.8	6808.4
1		0040	9	33.	-.1	6790.0	*	1		0900	109	124.	97.3	6815.6	*	1		1720	209	106.	47.3	6808.3
1		0045	10	33.	-.1	6790.0	*	1		0905	110	124.	96.8	6815.5	*	1		1725	210	106.	46.8	6808.2
1		0050	11	33.	-.1	6790.0	*	1		0910	111	124.	96.4	6815.5	*	1		1730	211	106.	46.3	6808.1
1		0055	12	33.	-.1	6790.0	*	1		0915	112	124.	96.0	6815.4	*	1		1735	212	106.	45.8	6807.9
1		0100	13	33.	-.1	6790.0	*	1		0920	113	123.	95.5	6815.3	*	1		1740	213	105.	45.3	6807.8
1		0105	14	33.	-.1	6790.0	*	1		0925	114	123.	95.1	6815.3	*	1		1745	214	105.	44.8	6807.7
1		0110	15	33.	-.1	6790.0	*	1		0930	115	123.	94.7	6815.2	*	1		1750	215	104.	44.3	6807.6
1		0115	16	33.	-.1	6790.0	*	1		0935	116	123.	94.3	6815.2	*	1		1755	216	104.	43.8	6807.4
1		0120	17	33.	-.1	6790.0	*	1		0940	117	123.	93.9	6815.1	*	1		1800	217	104.	43.3	6807.3
1		0125	18	33.	-.1	6790.0	*	1		0945	118	123.	93.4	6815.0	*	1		1805	218	103.	42.8	6807.1
1		0130	19	33.	-.1	6790.0	*	1		0950	119	123.	93.0	6815.0	*	1		1810	219	103.	42.3	6807.1
1		0135	20	33.	-.1	6790.0	*	1		0955	120	122.	92.6	6814.9	*	1		1815	220	103.	41.8	6807.0
1		0140	21	33.	-.1	6790.0	*	1		1000	121	122.	92.2	6814.8	*	1		1820	221	102.	41.3	6806.8
1		0145	22	33.	-.1	6790.0	*	1		1005	122	122.	91.7	6814.8	*	1		1825	222	102.	40.8	6806.7
1		0150	23	33.	-.1	6790.0	*	1		1010	123	122.	91.3	6814.7	*	1		1830	223	102.	40.4	6806.6
1		0155	24	33.	-.1	6790.0	*	1		1015	124	122.	90.8	6814.6	*	1		1835	224	101.	39.9	6806.5
1		0200	25	33.	-.1	6790.0	*	1		1020	125	122.	90.3	6814.6	*	1		1840	225	101.	39.4	6806.3
1		0205	26	33.	-.1	6790.0	*	1		1025	126	122.	89.8	6814.5	*	1		1845	226	101.	38.9	6806.2
1		0210	27	33.	-.1	6790.0	*	1		1030	127	121.	89.3	6814.4	*	1		1850	227	101.	38.4	6806.1
1		0215	28	33.	-.1	6790.0	*	1		1035	128	121.	88.8	6814.3	*	1		1855	228	100.	38.0	6806.0
1		0220	29	33.	-.1	6790.0	*	1		1040	129	121.	88.3	6814.3	*	1		1900	229	100.	37.5	6805.9
1		0225	30	33.	-.1	6790.0	*	1		1045	130	121.	87.8	6814.2	*	1		1905	230	100.	37.0	6805.8
1		0230	31	33.	-.1	6790.0	*	1		1050	131	121.	87.3	6814.1	*	1		1910	231	99.	36.6	6805.6
1		0235	32	33.	-.1	6790.0	*	1		1055	132	120.	86.8	6814.0	*	1		1915	232	99.	36.1	6805.5
1		0240	33	33.	-.1	6790.0	*	1		1100	133	120.	86.3	6814.0	*	1		1920	233	99.	35.7	6805.4
1		0245	34	33.	-.1	6790.0	*	1		1105	134	120.	85.8	6813.9	*	1		1925	234	98.	35.2	6805.3
1		0250	35	33.	-.1	6790.0	*	1		1110	135	120.	85.3	6813.8	*	1		1930	235	98.	34.7	6805.2
1		0255	36	33.	-.1	6790.0	*	1		1115	136	120.	84.8	6813.7	*	1		1935	236	98.	34.3	6805.1
1		0300	37	33.	-.1	6790.0	*	1		1120	137	120.	84.3	6813.7	*	1		1940	237	97.	33.8	6805.0
1		0305	38	33.	-.1	6790.0	*	1		1125	138	119.	83.8	6813.6	*	1		1945	238	97.	33.4	6804.9
1		0310	39	33.	-.1	6790.0	*	1		1130	139	119.	83.3	6813.5	*	1		1950	239	97.	33.0	6804.8
1		0315	40	33.	-.1	6790.0	*	1		1135	140	119.	82.8	6813.4	*	1		1955	240	96.	32.5	6804.7
1		0320	41	33.	-.1	6790.0	*	1		1140	141	119.	82.3	6813.4	*	1		2000	241	96.	32.1	6804.6
1		0325	42	33.	-.1	6790.0	*	1		1145	142	119.	81.8	6813.3	*	1		2005	242	96.	31.6	6804.5
1		0330	43	33.	-.1	6790.0	*	1		1150	143	119.	81.3	6813.2	*	1		2010	243	95.	31.1	6804.4
1		0335	44	33.	-.1	6790.0	*	1		1155	144	118.	80.8	6813.2	*	1		2015	244	95.	30.6	6804.3
1		0340	45	33.	-.1	6790.0	*	1		1200	145	118.	80.3	6813.1	*	1		2020	245	95.	30.1	6804.2
1		0345	46	33.	-.1	6790.0	*	1		1205	146	118.	79.8	6813.0	*	1		2025	246	94.	29.6	6804.1
1		0350	47	33.	-.1	6790.0	*	1		1210	147	118.	79.3	6812.9	*	1		2030	247	94.	29.1	6804.0
1		0355	48	33.	-.1	6790.0	*	1		1215	148	118.	78.8	6812.9	*	1		2035	248	94.	28.6	6803.9
1		0400	49	33.	-.1	6790.0	*	1		1220	149	118.	78.3	6812.8	*	1		2040	249	93.	28.1	6803.8
1		0405	50	33.	-.1	6790.0	*	1		1225	150	117.	77.9	6812.7	*	1		2045	250	93.	27.6	6803.7
1		0410	51	33.	-.1	6790.0	*	1		1230	151	117.	77.4	6812.7	*	1		2050	251	93.	27.1	6803.6

1	0415	52	33.	-1.1	6790.0	*	1	1235	152	117.	76.9	6812.6	*	1	2055	252	92.	26.5	6803.2
1	0420	53	33.	-1.1	6790.0	*	1	1240	153	117.	76.4	6812.5	*	1	2100	253	92.	26.0	6803.1
1	0425	54	33.	-1.1	6790.0	*	1	1245	154	117.	75.9	6812.4	*	1	2105	254	91.	25.5	6803.0
1	0430	55	33.	-1.1	6790.0	*	1	1250	155	117.	75.5	6812.4	*	1	2110	255	91.	25.0	6802.9
1	0435	56	33.	-1.1	6790.0	*	1	1255	156	116.	75.0	6812.3	*	1	2115	256	91.	24.5	6802.8
1	0440	57	33.	-1.1	6790.0	*	1	1300	157	116.	74.5	6812.2	*	1	2120	257	90.	24.0	6802.7
1	0445	58	33.	-1.1	6790.0	*	1	1305	158	116.	74.0	6812.1	*	1	2125	258	90.	23.5	6802.5
1	0450	59	33.	-1.1	6790.0	*	1	1310	159	116.	73.5	6812.1	*	1	2130	259	90.	22.9	6802.4
1	0455	60	33.	-1.1	6790.0	*	1	1315	160	116.	73.0	6812.0	*	1	2135	260	89.	22.4	6802.3
1	0500	61	33.	-1.1	6790.0	*	1	1320	161	116.	72.5	6811.9	*	1	2140	261	89.	21.9	6802.2
1	0505	62	33.	-1.1	6790.0	*	1	1325	162	115.	72.0	6811.9	*	1	2145	262	88.	21.4	6802.1
1	0510	63	33.	-1.1	6790.0	*	1	1330	163	115.	71.5	6811.8	*	1	2150	263	88.	20.9	6802.0
1	0515	64	33.	-1.1	6790.0	*	1	1335	164	115.	71.0	6811.8	*	1	2155	264	88.	20.4	6801.9
1	0520	65	33.	-1.1	6790.0	*	1	1340	165	115.	70.5	6811.7	*	1	2200	265	87.	20.0	6801.8
1	0525	66	33.	-1.1	6790.0	*	1	1345	166	115.	70.0	6811.7	*	1	2205	266	87.	19.5	6801.7
1	0530	67	39.	.9	6790.8	*	1	1350	167	115.	69.5	6811.6	*	1	2210	267	87.	19.0	6801.6
1	0535	68	57.	4.7	6793.9	*	1	1355	168	115.	69.0	6811.6	*	1	2215	268	86.	18.5	6801.4
1	0540	69	82.	12.4	6800.1	*	1	1400	169	115.	68.5	6811.5	*	1	2220	269	86.	18.0	6801.3
1	0545	70	90.	23.6	6802.6	*	1	1405	170	114.	68.0	6811.4	*	1	2225	270	86.	17.5	6801.2
1	0550	71	100.	37.6	6805.9	*	1	1410	171	114.	67.4	6811.4	*	1	2230	271	85.	17.1	6801.1
1	0555	72	110.	53.0	6809.5	*	1	1415	172	114.	66.9	6811.3	*	1	2235	272	85.	16.6	6801.0
1	0600	73	114.	66.9	6811.3	*	1	1420	173	114.	66.4	6811.3	*	1	2240	273	85.	16.1	6800.9
1	0605	74	117.	77.8	6812.7	*	1	1425	174	114.	65.9	6811.2	*	1	2245	274	84.	15.6	6800.8
1	0610	75	120.	85.3	6813.8	*	1	1430	175	114.	65.4	6811.2	*	1	2250	275	84.	15.2	6800.7
1	0615	76	122.	90.1	6814.5	*	1	1435	176	114.	64.9	6811.1	*	1	2255	276	84.	14.7	6800.6
1	0620	77	123.	93.1	6815.0	*	1	1440	177	113.	64.3	6811.0	*	1	2300	277	83.	14.2	6800.5
1	0625	78	123.	95.3	6815.3	*	1	1445	178	113.	63.8	6811.0	*	1	2305	278	83.	13.8	6800.4
1	0630	79	124.	96.9	6815.5	*	1	1450	179	113.	63.3	6810.9	*	1	2310	279	83.	13.3	6800.3
1	0635	80	124.	98.1	6815.7	*	1	1455	180	113.	62.8	6810.9	*	1	2315	280	82.	12.9	6800.2
1	0640	81	125.	99.0	6815.9	*	1	1500	181	113.	62.3	6810.8	*	1	2320	281	82.	12.4	6800.1
1	0645	82	125.	99.7	6816.0	*	1	1505	182	113.	61.7	6810.7	*	1	2325	282	82.	11.9	6800.0
1	0650	83	125.	100.3	6816.0	*	1	1510	183	113.	61.2	6810.7	*	1	2330	283	80.	11.5	6799.6
1	0655	84	125.	100.8	6816.1	*	1	1515	184	112.	60.7	6810.6	*	1	2335	284	79.	11.1	6799.2
1	0700	85	125.	101.1	6816.2	*	1	1520	185	112.	60.1	6810.6	*	1	2340	285	78.	10.7	6798.9
1	0705	86	125.	101.4	6816.2	*	1	1525	186	112.	59.6	6810.5	*	1	2345	286	77.	10.3	6798.6
1	0710	87	125.	101.6	6816.2	*	1	1530	187	112.	59.1	6810.5	*	1	2350	287	75.	9.9	6798.2
1	0715	88	126.	101.7	6816.2	*	1	1535	188	112.	58.5	6810.4	*	1	2355	288	74.	9.5	6797.9
1	0720	89	126.	101.7	6816.2	*	1	1540	189	112.	58.0	6810.3	*	2	0000	289	73.	9.1	6797.6
1	0725	90	126.	101.8	6816.2	*	1	1545	190	111.	57.4	6810.3	*	2	0005	290	72.	8.7	6797.2
1	0730	91	126.	101.8	6816.2	*	1	1550	191	111.	56.9	6810.2	*	2	0010	291	70.	8.3	6796.9
1	0735	92	126.	101.8	6816.2	*	1	1555	192	111.	56.3	6810.1	*	2	0015	292	69.	7.8	6796.5
1	0740	93	126.	101.7	6816.2	*	1	1600	193	111.	55.8	6810.1	*	2	0020	293	67.	7.4	6796.2
1	0745	94	126.	101.7	6816.2	*	1	1605	194	111.	55.2	6810.0	*	2	0025	294	66.	7.0	6795.8
1	0750	95	126.	101.7	6816.2	*	1	1610	195	111.	54.7	6809.9	*	2	0030	295	65.	6.6	6795.5
1	0755	96	126.	101.6	6816.2	*	1	1615	196	110.	54.2	6809.8	*	2	0035	296	63.	6.2	6795.1
1	0800	97	125.	101.5	6816.2	*	1	1620	197	110.	53.6	6809.7	*	2	0040	297	61.	5.8	6794.8
1	0805	98	125.	101.4	6816.2	*	1	1625	198	110.	53.1	6809.6	*	2	0045	298	60.	5.4	6794.5
1	0810	99	125.	101.2	6816.2	*	1	1630	199	109.	52.5	6809.5	*	2	0050	299	58.	5.0	6794.1
1	0815	100	125.	100.9	6816.1	*	1	1635	200	109.	52.0	6809.3	*	2	0055	300	57.	4.6	6793.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 126.	7.42	123.	92.	90.	90.
		(INCHES)			
		.845	2.533	2.568	2.568
		(AC-FT)			
		61.	183.	185.	195.
PEAK STORAGE		MAXIMUM AVERAGE STORAGE			
	TIME	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 102.	7.42	94.	45.	45.	45.
PEAK STAGE		MAXIMUM AVERAGE STAGE			
	TIME				

(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6816.23	7.42	6815.07	6805.16	6804.60	6804.60

CUMULATIVE AREA = 1.35 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBEU-1	272.	5.75	29.	9.	9.	.15		
ROUTED TO	DP-1EU	265.	5.83	29.	9.	9.	.15		
HYDROGRAPH AT	SBEU-2	375.	5.83	43.	13.	13.	.19		
2 COMBINED AT	DP-1EU	641.	5.83	72.	22.	21.	.33		
HYDROGRAPH AT	SBEU-3	219.	5.83	24.	7.	7.	.11		
ROUTED TO	DP-1EU	217.	5.83	24.	7.	7.	.11		
2 COMBINED AT	DP-1EU	858.	5.83	96.	29.	28.	.44		
HYDROGRAPH AT	SBEU-4	338.	5.83	40.	12.	12.	.20		
2 COMBINED AT	DP-1EU	1196.	5.83	136.	42.	40.	.64		
HYDROGRAPH AT	SBEU-5	90.	5.83	9.	3.	3.	.07		
2 COMBINED AT	DP-1EU	1287.	5.83	145.	45.	43.	.72		
HYDROGRAPH AT	SBEU-6	174.	5.83	20.	6.	6.	.11		
ROUTED TO	DP-1EU	171.	5.83	20.	6.	6.	.11		
2 COMBINED AT	DP-1EU	1457.	5.83	165.	51.	49.	.83		
ROUTED TO	DP-1EL	1411.	5.83	165.	51.	49.	.83		

+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06
+	2 COMBINED AT	DP-1EL	1567.	5.83	184.	57.	55.	.89
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	1613.	5.83	189.	58.	56.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1664.	5.83	194.	60.	58.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1745.	5.83	203.	63.	60.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1810.	5.83	211.	65.	62.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	1896.	5.83	220.	68.	65.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	1963.	5.83	228.	70.	67.	1.06
+	ROUTED TO	DP-2EL	1911.	5.92	231.	71.	68.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03

+	ROUTED TO	DP-2EL	50.	5.92	5.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	1961.	5.92	237.	73.	70.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	123.	5.83	13.	4.	4.	.07
+	2 COMBINED AT	DP-2EL	2069.	5.92	250.	77.	74.	1.16
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04
+	2 COMBINED AT	DP-2EL	2110.	5.92	257.	79.	76.	1.21
+	HYDROGRAPH AT	SBEL11	103.	5.75	10.	3.	3.	.04
+	ROUTED TO	DP-2EL	96.	5.83	11.	3.	3.	.04
+	2 COMBINED AT	DP-2EL	2203.	5.92	268.	82.	79.	1.25
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11
+	2 COMBINED AT	DP-2EL	2342.	5.92	288.	88.	85.	1.35
+	ROUTED TO	DF/LP	126.	7.42	123.	92.	90.	1.35
+	ROUTED TO	DP-1EC	126.	7.42	123.	92.	90.	1.35
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05

6816.23

7.42

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

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR UNDEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND WITH OUTLET RATE NOT TO									
4	ID	EXCEED DEVELOPED LOWER POND WITH LOWER POND STORAGE VOLUME AT 75% OUTLET									
5	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC47.DAT)									
	*DIAGRAM										
6	IT	5	0	0	300						
7	IQ	5	1								
8	PG	2	4.4								
9	PG	1	0								
10	IN	15									
11	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
12	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
13	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
14	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
15	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
16	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
17	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
18	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
19	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
20	PC	.9938	.9950	.9963	.9975	1.0000					

```

21      KK  SBEU-1
22      KM  RUNOFF FROM SBEU-1
23      BA  0.1461
24      PR  1
25      PW  1
26      PT  2
27      PW  1
28      LS  0    76.0
29      UD  0.33

30      KK  DP-1EU
31      KM  ROUTE SBEU-1 TO DP-1EU
32      RK  6600  0.0300  0.045    0    TRAP    8    10

33      KK  SBEU-2
34      KM  RUNOFF FROM SBEU-2
35      BA  0.1851
36      PR  1
37      PW  1
38      PT  2
39      PW  1
40      LS  0    76.0
41      UD  0.51

42      KK  DP-1EU
43      KM  COMBINE FLOWS AT DP-1EU
44      HC  2

```

HEC-1 INPUT

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

```

45      KK  SBEU-3
46      KM  RUNOFF FROM SBEU-3
47      BA  0.1117
48      PR  1
49      PW  1
50      PT  2
51      PW  1
52      LS  0    76.0
53      UD  0.36

54      KK  DP-1EU
55      KM  ROUTE SBEU-3 TO DP-1EU
56      RK  3400  0.0290  0.045    0    TRAP    8    10

57      KK  DP-1EU
58      KM  COMBINE FLOWS AT DP-1EU
59      HC  2

60      KK  SBEU-4
61      KM  RUNOFF FROM SBEU-4
62      BA  0.2019
63      PR  1
64      PW  1
65      PT  2
66      PW  1
67      LS  0    76.0
68      UD  0.50

69      KK  DP-1EU
70      KM  COMBINE FLOWS AT DP-1EU
71      HC  2

72      KK  SBEU-5

```

```

73      KM      RUNOFF FROM SBEL-5
74      BA      0.0741
75      PR      1
76      PW      1
77      PT      2
78      PW      1
79      LS      0      76.0
80      UD      0.42

81      KK      DP-1EU
82      KM      COMBINE FLOWS AT DP-1EU
83      HC      2

84      KK      SBEL-6
85      KM      RUNOFF FROM SBEL-6
86      BA      0.1064
87      PR      1
88      PW      1
89      PT      2
90      PW      1
91      LS      0      76.0

```

HEC-1 INPUT

1

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
92      UD      0.48

93      KK      DP-1EU
94      KM      ROUTE SBEL-6 TO DP-1EU
95      RK      1000  0.0400  0.045      0      TRAP      8      10

96      KK      DP-1EU
97      KM      COMBINE FLOWS AT DP-1EU
98      HC      2

99      KK      DP-1EL
100     KM      ROUTE DP-1EU TO DP-1EL
101     RK      2000  0.0300  0.016      0      TRAP      8      10

102     KK      SBEL-6
103     KM      RUNOFF FROM SBEL-6
104     BA      0.0597
105     PR      1
106     PW      1
107     PT      2
108     PW      1
109     LS      0      92.0
110     UD      0.13

111     KK      DP-1EL
112     KM      COMBINE FLOWS AT DP-1EL
113     HC      2

114     KK      SBEL-1
115     KM      RUNOFF FROM SBEL-1
116     BA      0.0282
117     PR      1
118     PW      1
119     PT      2
120     PW      1
121     LS      0      75.0
122     UD      0.14

123     KK      DP-1EL
124     KM      ROUTE SBEL-1 TO DP-1EL
125     RK      1600  0.0380  0.016      0      TRAP      10      3

```


177 PR 1
 178 PW 1
 179 PT 2
 180 PW 1
 181 LS 0 88.0
 182 UD 0.12

HEC-1 INPUT

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

183 KK DP-1EL
 184 KM ROUTE SBEL-5 TO DP-1EL
 185 RK 2200 0.0360 0.016 0 TRAP 8 10

186 KK DP-1EL
 187 KM COMBINE FLOWS AT DP-1EL
 188 HC 2

189 KK SBEL-7
 190 KM RUNOFF FROM SBEL-7
 191 BA 0.0294
 192 PR 1
 193 PW 1
 194 PT 2
 195 PW 1
 196 LS 0 86.1
 197 UD 0.12

198 KK DP-1EL
 199 KM ROUTE SBEL-7 TO DP-1EL
 200 RK 700 0.0710 0.016 0 TRAP 8 10

201 KK DP-1EL
 202 KM COMBINE FLOWS AT DP-1EL
 203 HC 2

204 KK DP-2EL
 205 KM ROUTE DP-1EL TO DP-2EL
 206 RK 3900 0.0240 0.045 0 TRAP 10 3

207 KK SBEL-B
 208 KM RUNOFF FROM SBEL-B
 209 BA 0.0302
 210 PR 1
 211 PW 1
 212 PT 2
 213 PW 1
 214 LS 0 75.0
 215 UD 0.13

216 KK DP-2EL
 217 KM ROUTE SBEL-B TO DP-2EL
 218 RK 2900 0.0250 0.045 0 TRAP 10 3

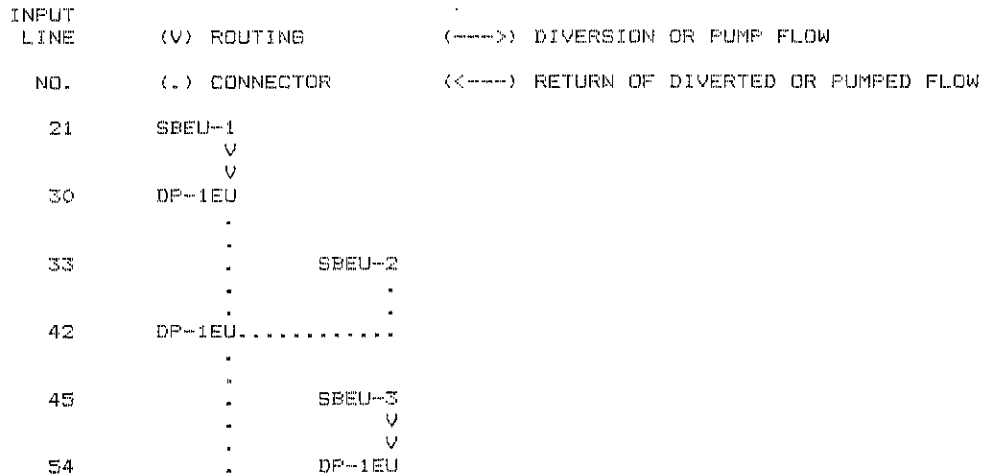
219 KK DP-2EL
 220 KM COMBINE FLOWS AT DP-2EL
 221 HC 2

222 KK SBEL-9
 223 KM RUNOFF FROM SBEL-9
 224 BA 0.0694
 225 PR 1
 226 PW 1
 227 PT 2

277	KU	2									
278	KM		ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)								
279	RS	1	STOR	0							
280	SV	0.0	6.5	17.2	33.0	42.8	54.0	80.8	96.4	100.9	114.2
281	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
282	SL	6788.0	9.42	0.60	0.50						
283	SS	6818.5									
284	KK	DF-1EC									
285	KM		ROUTE DF/LP TO DF-1EC								
286	RK	415	0.0250	0.015	0	CIRC	4.0				
287	KM		FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK								
288	KK	SBEC-1									
289	KM		RUNOFF FROM SBEC-1								
290	BA	0.0138									
291	PR	1									
292	FW	1									
293	PT	2									
294	PW	1									
295	LS	0	80.0								
296	UD	0.11									
297	KK	SBEC-2									
298	KM		RUNOFF FROM BASIN SBEC-2								
299	BA	0.0263									
300	PR	1									
301	FW	1									
302	PT	2									
303	FW	1									
304	LS	0	69.0								
305	UD	0.13									
306	KK	SBEC-3									
307	KM		RUNOFF FROM SBEC-3								
308	BA	0.0470									
309	PR	1									
310	FW	1									
311	PT	2									
312	FW	1									
313	LS	0	72.0								
314	UD	0.15									
315	ZZ										

1

SCHEMATIC DIAGRAM OF STREAM NETWORK



57	DP-1EU.....	.
	.	.
60		SBEU-4
	.	.
69	DP-1EU.....	.
	.	.
72		SBEU-5
	.	.
81	DP-1EU.....	.
	.	.
84		SBEU-6
	.	v
	.	v
93		DP-1EU
	.	.
96	DP-1EU.....	.
	v	.
	v	.
99	DP-1EL	.
	.	.
102		SBEL-6
	.	.
111	DP-1EL.....	.
	.	.
114		SBEL-1
	.	v
	.	v
123		DP-1EL
	.	.
126	DP-1EL.....	.
	.	.
129		SBEL-2
	.	v
	.	v
138		DP-1EL
	.	.
141	DP-1EL.....	.
	.	.
144		SBEL-3
	.	v
	.	v
153		DP-1EL
	.	.
156	DP-1EL.....	.
	.	.
159		SBEL-4
	.	v
	.	v
168		DP-1EL

171	DP-1EL.....	.
	.	.
174	SBEL-5	.
	∨	.
	∨	.
183	DP-1EL	.
	.	.
186	DP-1EL.....	.
	.	.
189	SBEL-7	.
	∨	.
	∨	.
198	DP-1EL	.
	.	.
201	DP-1EL.....	.
	∨	.
	∨	.
204	DP-2EL	.
	.	.
207	SBEL-8	.
	∨	.
	∨	.
216	DP-2EL	.
	.	.
219	DP-2EL.....	.
	.	.
222	SBEL-9	.
	∨	.
	∨	.
231	DP-2EL	.
	.	.
234	DP-2EL.....	.
	.	.
237	SBEL 10	.
	.	.
246	DP-2EL.....	.
	.	.
249	SBEL 11	.
	∨	.
	∨	.
258	DP-2EL	.
	.	.
261	DP-2EL.....	.
	.	.
264	SBEL 12	.
	.	.
273	DP-2EL.....	.
	∨	.
	∨	.
276	DF/LP	.

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

*
276 KK * DF/LP *
*

277 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 1 PLOT CONTROL
USCAL 0. HYDROGRAPH PLOT SCALE
ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

279 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC .00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

280 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2

281 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

282 SL LOW-LEVEL OUTLET
ELEVEL 6788.00 ELEVATION AT CENTER OF OUTLET
CAREA 9.42 CROSS-SECTIONAL AREA
COGL .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

283 SS SPILLWAY
CREL 6818.50 SPILLWAY CREST ELEVATION
SPWID .00 SPILLWAY WIDTH
COBW .00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW .00 69.88 76.80 85.25 95.77 109.26 127.18 152.13 189.25 250.34
ELEVATION 6790.00 6790.38 6790.87 6791.54 6792.46 6793.81 6795.87 6799.26 6805.43 6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE .00 .24 .57 1.00 1.50 2.48 3.82 6.02 6.50 17.20
OUTFLOW 64.10 69.88 76.80 85.25 95.77 109.26 127.18 152.13 157.02 181.32
ELEVATION 6790.00 6790.38 6790.87 6791.54 6792.46 6793.81 6795.87 6799.26 6800.00 6804.00
STORAGE 22.85 33.00 42.80 54.00 80.80 96.40 100.90 114.20
OUTFLOW 189.25 202.72 212.61 222.07 239.86 248.28 250.34 256.42
ELEVATION 6805.43 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	64.	.0	6790.0	*	1		0820	101	229.	64.9	6813.6	*	1		1640	201	59.	-.2	6790.0
1		0005	2	59.	-.2	6790.0	*	1		0825	102	229.	63.9	6813.5	*	1		1645	202	59.	-.2	6790.0
1		0010	3	59.	-.2	6790.0	*	1		0830	103	228.	62.9	6813.3	*	1		1650	203	59.	-.2	6790.0
1		0015	4	59.	-.2	6790.0	*	1		0835	104	227.	61.9	6813.2	*	1		1655	204	59.	-.2	6790.0
1		0020	5	59.	-.2	6790.0	*	1		0840	105	227.	60.9	6813.0	*	1		1700	205	59.	-.2	6790.0
1		0025	6	59.	-.2	6790.0	*	1		0845	106	226.	59.8	6812.9	*	1		1705	206	59.	-.2	6790.0
1		0030	7	59.	-.2	6790.0	*	1		0850	107	225.	58.7	6812.7	*	1		1710	207	59.	-.2	6790.0
1		0035	8	59.	-.2	6790.0	*	1		0855	108	224.	57.7	6812.5	*	1		1715	208	59.	-.2	6790.0
1		0040	9	59.	-.2	6790.0	*	1		0900	109	224.	56.6	6812.4	*	1		1720	209	59.	-.2	6790.0
1		0045	10	59.	-.2	6790.0	*	1		0905	110	223.	55.5	6812.2	*	1		1725	210	59.	-.2	6790.0
1		0050	11	59.	-.2	6790.0	*	1		0910	111	222.	54.4	6812.1	*	1		1730	211	59.	-.2	6790.0
1		0055	12	59.	-.2	6790.0	*	1		0915	112	221.	53.3	6811.9	*	1		1735	212	59.	-.2	6790.0
1		0100	13	59.	-.2	6790.0	*	1		0920	113	221.	52.2	6811.7	*	1		1740	213	59.	-.2	6790.0
1		0105	14	59.	-.2	6790.0	*	1		0925	114	220.	51.1	6811.5	*	1		1745	214	59.	-.2	6790.0
1		0110	15	59.	-.2	6790.0	*	1		0930	115	219.	50.0	6811.3	*	1		1750	215	59.	-.2	6790.0
1		0115	16	59.	-.2	6790.0	*	1		0935	116	218.	48.9	6811.1	*	1		1755	216	59.	-.2	6790.0
1		0120	17	59.	-.2	6790.0	*	1		0940	117	217.	47.9	6810.9	*	1		1800	217	59.	-.2	6790.0
1		0125	18	59.	-.2	6790.0	*	1		0945	118	216.	46.8	6810.7	*	1		1805	218	59.	-.2	6790.0
1		0130	19	59.	-.2	6790.0	*	1		0950	119	215.	45.7	6810.5	*	1		1810	219	59.	-.2	6790.0
1		0135	20	59.	-.2	6790.0	*	1		0955	120	214.	44.7	6810.3	*	1		1815	220	59.	-.2	6790.0
1		0140	21	59.	-.2	6790.0	*	1		1000	121	213.	43.6	6810.1	*	1		1820	221	59.	-.2	6790.0
1		0145	22	59.	-.2	6790.0	*	1		1005	122	212.	42.5	6809.9	*	1		1825	222	59.	-.2	6790.0
1		0150	23	59.	-.2	6790.0	*	1		1010	123	211.	41.5	6809.7	*	1		1830	223	59.	-.2	6790.0
1		0155	24	59.	-.2	6790.0	*	1		1015	124	210.	40.4	6809.5	*	1		1835	224	59.	-.2	6790.0
1		0200	25	59.	-.2	6790.0	*	1		1020	125	209.	39.3	6809.3	*	1		1840	225	59.	-.2	6790.0
1		0205	26	59.	-.2	6790.0	*	1		1025	126	208.	38.2	6809.1	*	1		1845	226	59.	-.2	6790.0
1		0210	27	59.	-.2	6790.0	*	1		1030	127	207.	37.2	6808.9	*	1		1850	227	59.	-.2	6790.0
1		0215	28	59.	-.2	6790.0	*	1		1035	128	206.	36.1	6808.6	*	1		1855	228	59.	-.2	6790.0
1		0220	29	59.	-.2	6790.0	*	1		1040	129	205.	35.0	6808.4	*	1		1900	229	59.	-.2	6790.0
1		0225	30	59.	-.2	6790.0	*	1		1045	130	204.	34.0	6808.2	*	1		1905	230	59.	-.2	6790.0
1		0230	31	59.	-.2	6790.0	*	1		1050	131	203.	32.9	6808.0	*	1		1910	231	59.	-.2	6790.0
1		0235	32	59.	-.2	6790.0	*	1		1055	132	201.	31.8	6807.7	*	1		1915	232	59.	-.2	6790.0
1		0240	33	59.	-.2	6790.0	*	1		1100	133	200.	30.8	6807.4	*	1		1920	233	59.	-.2	6790.0
1		0245	34	59.	-.2	6790.0	*	1		1105	134	198.	29.7	6807.2	*	1		1925	234	59.	-.2	6790.0
1		0250	35	59.	-.2	6790.0	*	1		1110	135	197.	28.7	6806.9	*	1		1930	235	59.	-.2	6790.0
1		0255	36	59.	-.2	6790.0	*	1		1115	136	196.	27.7	6806.6	*	1		1935	236	59.	-.2	6790.0
1		0300	37	59.	-.2	6790.0	*	1		1120	137	194.	26.6	6806.4	*	1		1940	237	59.	-.2	6790.0
1		0305	38	59.	-.2	6790.0	*	1		1125	138	193.	25.6	6806.1	*	1		1945	238	59.	-.2	6790.0
1		0310	39	59.	-.2	6790.0	*	1		1130	139	192.	24.6	6805.9	*	1		1950	239	59.	-.2	6790.0
1		0315	40	59.	-.2	6790.0	*	1		1135	140	190.	23.6	6805.6	*	1		1955	240	59.	-.2	6790.0
1		0320	41	59.	-.2	6790.0	*	1		1140	141	189.	22.6	6805.4	*	1		2000	241	59.	-.2	6790.0
1		0325	42	59.	-.2	6790.0	*	1		1145	142	188.	21.6	6805.1	*	1		2005	242	59.	-.2	6790.0
1		0330	43	59.	-.2	6790.0	*	1		1150	143	186.	20.7	6804.9	*	1		2010	243	59.	-.2	6790.0
1		0335	44	59.	-.2	6790.0	*	1		1155	144	185.	19.7	6804.6	*	1		2015	244	59.	-.2	6790.0
1		0340	45	59.	-.2	6790.0	*	1		1200	145	184.	18.8	6804.4	*	1		2020	245	59.	-.2	6790.0
1		0345	46	59.	-.2	6790.0	*	1		1205	146	182.	17.8	6804.2	*	1		2025	246	59.	-.2	6790.0
1		0350	47	59.	-.2	6790.0	*	1		1210	147	181.	16.9	6803.9	*	1		2030	247	59.	-.2	6790.0
1		0355	48	59.	-.2	6790.0	*	1		1215	148	179.	16.0	6803.5	*	1		2035	248	59.	-.2	6790.0
1		0400	49	59.	-.2	6790.0	*	1		1220	149	175.	15.1	6803.2	*	1		2040	249	59.	-.2	6790.0
1		0405	50	59.	-.2	6790.0	*	1		1225	150	174.	14.2	6802.9	*	1		2045	250	59.	-.2	6790.0
1		0410	51	59.	-.2	6790.0	*	1		1230	151	172.	13.3	6802.5	*	1		2050	251	59.	-.2	6790.0
1		0415	52	59.	-.2	6790.0	*	1		1235	152	170.	12.4	6802.2	*	1		2055	252	59.	-.2	6790.0
1		0420	53	59.	-.2	6790.0	*	1		1240	153	169.	11.6	6801.9	*	1		2100	253	59.	-.2	6790.0
1		0425	54	59.	-.2	6790.0	*	1		1245	154	167.	10.7	6801.6	*	1		2105	254	59.	-.2	6790.0
1		0430	55	59.	-.2	6790.0	*	1		1250	155	165.	9.9	6801.3	*	1		2110	255	59.	-.2	6790.0
1		0435	56	59.	-.2	6790.0	*	1		1255	156	163.	9.1	6801.0	*	1		2115	256	59.	-.2	6790.0
1		0440	57	59.	-.2	6790.0	*	1		1300	157	161.	8.3	6800.7	*	1		2120	257	59.	-.2	6790.0
1		0445	58	59.	-.2	6790.0	*	1		1305	158	159.	7.5	6800.4	*	1		2125	258	59.	-.2	6790.0
1		0450	59	59.	-.2	6790.0	*	1		1310	159	157.	6.7	6800.1	*	1		2130	259	59.	-.2	6790.0

1	0450	60	59.	-2	6790.0	*	1	1315	160	151.	5.4	6799.1	*	1	2135	260	59.	-2	6790.0
1	0500	61	59.	-2	6790.0	*	1	1320	161	143.	5.2	6798.0	*	1	2140	261	59.	-2	6790.0
1	0505	62	59.	-2	6790.0	*	1	1325	162	136.	4.6	6797.0	*	1	2145	262	59.	-2	6790.0
1	0510	63	59.	-2	6790.0	*	1	1330	163	129.	4.0	6796.1	*	1	2150	263	59.	-2	6790.0
1	0515	64	59.	-2	6790.0	*	1	1335	164	121.	3.4	6795.2	*	1	2155	264	59.	-2	6790.0
1	0520	65	59.	-2	6790.0	*	1	1340	165	114.	2.9	6794.4	*	1	2200	265	59.	-2	6790.0
1	0525	66	59.	-2	6790.0	*	1	1345	166	108.	2.4	6793.7	*	1	2205	266	59.	-2	6790.0
1	0530	67	72.	.4	6790.6	*	1	1350	167	101.	1.9	6793.0	*	1	2210	267	59.	-2	6790.0
1	0535	68	111.	2.6	6794.0	*	1	1355	168	95.	1.6	6792.4	*	1	2215	268	59.	-2	6790.0
1	0540	69	158.	6.7	6800.1	*	1	1400	169	89.	1.2	6791.8	*	1	2220	269	59.	-2	6790.0
1	0545	70	171.	12.8	6802.3	*	1	1405	170	83.	.9	6791.4	*	1	2225	270	59.	-2	6790.0
1	0550	71	186.	20.4	6804.8	*	1	1410	171	78.	.6	6790.9	*	1	2230	271	59.	-2	6790.0
1	0555	72	197.	28.4	6806.8	*	1	1415	172	72.	.4	6790.6	*	1	2235	272	59.	-2	6790.0
1	0600	73	206.	35.8	6808.6	*	1	1420	173	68.	.1	6790.2	*	1	2240	273	59.	-2	6790.0
1	0605	74	212.	42.3	6809.9	*	1	1425	174	63.	.0	6790.0	*	1	2245	274	59.	-2	6790.0
1	0610	75	217.	48.1	6810.9	*	1	1430	175	60.	-.2	6790.0	*	1	2250	275	59.	-2	6790.0
1	0615	76	222.	53.5	6811.9	*	1	1435	176	59.	-.2	6790.0	*	1	2255	276	59.	-2	6790.0
1	0620	77	225.	58.4	6812.7	*	1	1440	177	59.	-.2	6790.0	*	1	2300	277	59.	-2	6790.0
1	0625	78	228.	62.5	6813.3	*	1	1445	178	59.	-.2	6790.0	*	1	2305	278	59.	-2	6790.0
1	0630	79	230.	65.7	6813.7	*	1	1450	179	59.	-.2	6790.0	*	1	2310	279	59.	-2	6790.0
1	0635	80	231.	68.1	6814.1	*	1	1455	180	59.	-.2	6790.0	*	1	2315	280	59.	-2	6790.0
1	0640	81	233.	70.0	6814.4	*	1	1500	181	59.	-.2	6790.0	*	1	2320	281	59.	-2	6790.0
1	0645	82	234.	71.3	6814.6	*	1	1505	182	59.	-.2	6790.0	*	1	2325	282	59.	-2	6790.0
1	0650	83	234.	72.3	6814.7	*	1	1510	183	59.	-.2	6790.0	*	1	2330	283	59.	-2	6790.0
1	0655	84	235.	73.0	6814.8	*	1	1515	184	59.	-.2	6790.0	*	1	2335	284	59.	-2	6790.0
1	0700	85	235.	73.4	6814.9	*	1	1520	185	59.	-.2	6790.0	*	1	2340	285	59.	-2	6790.0
1	0705	86	235.	73.6	6814.9	*	1	1525	186	59.	-.2	6790.0	*	1	2345	286	59.	-2	6790.0
1	0710	87	235.	73.6	6814.9	*	1	1530	187	59.	-.2	6790.0	*	1	2350	287	59.	-2	6790.0
1	0715	88	235.	73.4	6814.9	*	1	1535	188	59.	-.2	6790.0	*	1	2355	288	59.	-2	6790.0
1	0720	89	235.	73.1	6814.9	*	1	1540	189	59.	-.2	6790.0	*	2	0000	289	59.	-2	6790.0
1	0725	90	235.	72.7	6814.8	*	1	1545	190	59.	-.2	6790.0	*	2	0005	290	59.	-2	6790.0
1	0730	91	234.	72.3	6814.7	*	1	1550	191	59.	-.2	6790.0	*	2	0010	291	59.	-2	6790.0
1	0735	92	234.	71.7	6814.6	*	1	1555	192	59.	-.2	6790.0	*	2	0015	292	59.	-2	6790.0
1	0740	93	233.	71.2	6814.6	*	1	1600	193	59.	-.2	6790.0	*	2	0020	293	59.	-2	6790.0
1	0745	94	233.	70.5	6814.5	*	1	1605	194	59.	-.2	6790.0	*	2	0025	294	59.	-2	6790.0
1	0750	95	233.	69.9	6814.4	*	1	1610	195	59.	-.2	6790.0	*	2	0030	295	59.	-2	6790.0
1	0755	96	232.	69.2	6814.3	*	1	1615	196	59.	-.2	6790.0	*	2	0035	296	59.	-2	6790.0
1	0800	97	232.	68.4	6814.2	*	1	1620	197	59.	-.2	6790.0	*	2	0040	297	59.	-2	6790.0
1	0805	98	231.	67.6	6814.0	*	1	1625	198	59.	-.2	6790.0	*	2	0045	298	59.	-2	6790.0
1	0810	99	231.	66.7	6813.9	*	1	1630	199	59.	-.2	6790.0	*	2	0050	299	59.	-2	6790.0
1	0815	100	230.	65.8	6813.8	*	1	1635	200	59.	-.2	6790.0	*	2	0055	300	59.	-2	6790.0

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 235.	7.08	218.	109.	107.	107.
		(INCHES)	1.489	2.976	3.038
		(AC-FT)	108.	216.	220.
PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 74.	7.08	52.	14.	13.	13.
PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 6814.92	7.08	6811.24	6796.33	6796.10	6796.10

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	SBEU-1	176.	5.92	26.	8.	8.	.15		
+	ROUTED TO	DP-1EU	151.	6.17	25.	8.	8.	.15		
+	HYDROGRAPH AT	SBEU-2	166.	6.17	32.	10.	10.	.19		
+	2 COMBINED AT	DP-1EU	317.	6.17	58.	18.	18.	.33		
+	HYDROGRAPH AT	SBEU-3	127.	6.00	20.	6.	6.	.11		
+	ROUTED TO	DP-1EU	125.	6.17	20.	6.	6.	.11		
+	2 COMBINED AT	DP-1EU	442.	6.17	78.	25.	24.	.44		
+	HYDROGRAPH AT	SBEU-4	185.	6.08	35.	11.	11.	.20		
+	2 COMBINED AT	DP-1EU	625.	6.17	113.	36.	34.	.64		
+	HYDROGRAPH AT	SBEU-5	76.	6.00	13.	4.	4.	.07		
+	2 COMBINED AT	DP-1EU	695.	6.08	126.	40.	38.	.72		
+	HYDROGRAPH AT	SBEU-6	101.	6.08	19.	6.	6.	.11		
+	ROUTED TO	DP-1EU	99.	6.17	19.	6.	6.	.11		
+	2 COMBINED AT	DP-1EU	793.	6.17	144.	46.	44.	.83		
+	ROUTED TO	DP-1EL	793.	6.17	144.	46.	44.	.83		
+	HYDROGRAPH AT	SREL-6	178.	5.75	19.	6.	5.	.06		
+	2 COMBINED AT	DP-1EL	817.	6.17	163.	51.	49.	.89		
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.01		

+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	826.	6.17	167.	53.	51.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	837.	6.17	173.	54.	52.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	849.	6.17	182.	57.	55.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	862.	6.08	189.	59.	57.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	884.	6.08	199.	62.	60.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	903.	5.92	207.	65.	62.	1.06
+	ROUTED TO	DP-2EL	902.	6.00	207.	65.	62.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-2EL	50.	5.92	5.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	947.	6.00	212.	66.	64.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.03

+	ROUTED TO	DP-2EL	123.	5.83	13.	4.	4.	.07		
+	2 COMBINED AT	DP-2EL	1052.	5.92	225.	70.	68.	1.16		
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04		
+	2 COMBINED AT	DP-2EL	1094.	5.92	233.	73.	70.	1.21		
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05		
+	ROUTED TO	DP-2EL	115.	5.83	13.	4.	4.	.05		
+	2 COMBINED AT	DP-2EL	1204.	5.92	246.	77.	74.	1.25		
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11		
+	2 COMBINED AT	DP-2EL	1375.	5.83	266.	83.	80.	1.36		
+	ROUTED TO	DF/LP	235.	7.08	218.	109.	107.	1.36	6814.92	7.08
+	ROUTED TO	DP-1EC	235.	7.08	218.	109.	107.	1.36		
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01		
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03		
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05		

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

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND WITH									
3	ID	75% OUTLET AND DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC48.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	78.8								
28	UD	0.15									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.016	0	TRAP	8	10			
32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	PR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	83.1								
40	UD	0.21									
41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									
44	KK	SBEU-3									
45	PM	RUNOFF FROM SBEU-3									
46	BA	0.1117									

8

78 KM COMBINE FLOWS AT DP-1EU
 97 HC 2

 98 KK DF/UP
 99 KM 2
 100 KM ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)
 101 RS 1 STOR 0
 102 SV 0.0 0.1 1.8 18.6 42.3 79.1 103.3 132.0
 103 SE 6956.0 6958.0 6960.0 6966.0 6970.0 6974.0 6976.0 6978.0
 104 SL 6958.0 2.35 0.60 0.50
 105 SS 6976.0

106 KK DP-1EL
 107 KM ROUTE DP-1EU TO DP-1EL
 108 RK 2000 0.0200 0.015 0 DIRC 2.0

109 KK SBEL-6
 110 KM RUNOFF FROM SBEL-6
 111 BA 0.0597
 112 PR 1
 113 FW 1
 114 PT 2
 115 PW 1
 116 LS 0 92.0
 117 UD 0.13

118 KK DP-1EL
 119 KM COMBINE FLOWS AT DP-1EL
 120 HC 2

121 KK SBEL-1
 122 KM RUNOFF FROM SBEL-1
 123 BA 0.0282
 124 PR 1
 125 FW 1
 126 PT 2
 127 PW 1
 128 LS 0 75.0
 129 UD 0.14

130 KK DP-1EL
 131 KM ROUTE SBEL-1 TO DP-1EL
 132 RK 1600 0.0380 0.016 0 TRAP 8 10
 HEC-1 INPUT

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

133 KK DP-1EL
 134 KM COMBINE FLOWS AT DP-1EL
 135 HC 2

136 KK SBEL-2
 137 KM RUNOFF FROM SBEL-2
 138 BA 0.0251
 139 PR 1
 140 FW 1
 141 PT 2
 142 PW 1
 143 LS 0 80.2
 144 UD 0.13

145 KK DP-1EL
 146 KM ROUTE SBEL-2 TO DP-1EL
 147 RK 2000 0.0400 0.016 0 TRAP 8 10

```

148 KK DP-1EL
149 KM COMBINE FLOWS AT DP-1EL
150 HC 2

151 KK SBEL-3
152 KM RUNOFF FROM SBEL-3
153 BA 0.0320
154 PR 1
155 PW 1
156 PT 2
157 PW 1
158 LS 0 90.0
159 UD 0.12

160 KK DP-1EL
161 KM ROUTE SBEL-3 TO DP-1EL
162 RK 1000 0.0500 0.016 0 TRAP B 10

163 KK DP-1EL
164 KM COMBINE FLOWS AT DP-1EL
165 HC 2

166 KK SBEL-4
167 KM RUNOFF FROM SBEL-4
168 BA 0.0289
169 PR 1
170 PW 1
171 PT 2
172 PW 1
173 LS 0 85.0
174 UD 0.12

```

HEC-1 INPUT

PAGE 5

1

```

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

175 KK DP-1EL
176 KM ROUTE SBEL-4 TO DP-1EL
177 RK 1000 0.0500 0.016 0 TRAP B 10

178 KK DP-1EL
179 KM COMBINE FLOWS AT DP-1EL
180 HC 2

181 KK SBEL-5
182 KM RUNOFF FROM SBEL-5
183 BA 0.0334
184 PR 1
185 PW 1
186 PT 2
187 PW 1
188 LS 0 88.0
189 UD 0.12

190 KK DP-1EL
191 KM ROUTE SBEL-5 TO DP-1EL
192 RK 2200 0.0360 0.016 0 TRAP B 10

193 KK DP-1EL
194 KM COMBINE FLOWS AT DP-1EL
195 HC 2

196 KK SBEL-7
197 KM RUNOFF FROM SBEL-7
198 BA 0.0294
199 PR 1

```

200	PW	1								
201	PT	2								
202	PW	1								
203	LS	0	86.1							
204	UD	0.12								
205	KK	DP-1EL								
206	KM	ROUTE SBEL-7 TO DP-1EL								
207	RK	700	0.0710	0.016	0	TRAP	8	10		
208	KK	DP-1EL								
209	KM	COMBINE FLOWS AT DP-1EL								
210	HC	2								
211	KK	DP-2EL								
212	KM	ROUTE DP-1EL TO DP-2EL								
213	RK	3900	0.0100	0.045	0	TRAP	40	4		
214	KK	SBEL-8								
215	KM	RUNOFF FROM SBEL-8								
216	BA	0.0302								
217	PR	1								
218	PW	1								
219	PT	2								

HEC-1 INPUT

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10.....
220	PW	1									
221	LS	0	75.0								
222	UD	0.13									
223	KK	DP-2EL									
224	KM	ROUTE SBEL-8 TO DP-2EL									
225	RK	2900	0.0100	0.045	0	TRAP	40	4			
226	KK	DP-2EL									
227	KM	COMBINE FLOWS AT DP-2EL									
228	HC	2									
229	KK	SBEL-9									
230	KM	RUNOFF FROM SBEL-9									
231	BA	0.0694									
232	PR	1									
233	PW	1									
234	PT	2									
235	PW	1									
236	LS	0	77.1								
237	UD	0.14									
238	KK	DP-2EL									
239	KM	ROUTE SBEL-9 TO DP-2EL									
240	RK	1300	0.0100	0.045	0	TRAP	40	4			
241	KK	DP-2EL									
242	KM	COMBINE FLOWS AT DP-2EL									
243	HC	2									
244	KK	SBEL-10									
245	KM	RUNOFF FROM SBEL-10									
246	BA	0.0434									
247	PR	1									
248	PW	1									
249	PT	2									
250	PW	1									
251	LS	0	76.0								

252 UD 0.12
 253 KK DP-2EL
 254 KM COMBINE FLOWS AT DP-2EL
 255 HC 2

 256 KK SBEL11
 257 KM RUNOFF FROM SBEL-11
 258 BA 0.0494
 259 PR 1
 260 PW 1
 261 PT 2
 262 PW 1
 263 LS 0 84.9
 264 UD 0.12

HEC-1 INPUT

1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10.....
265	KK DP-2EL										
266	KM	ROUTE SBEL-11 TO DP-2EL									
267	RK	2900	0.0100	0.045	0	TRAP	40	4			
268	KK DP-2EL										
269	KM	COMBINE FLOWS AT DP-2EL									
270	HC	2									
271	KK SBEL12										
272	KM	RUNOFF FROM SBEL-12									
273	BA	0.1063									
274	PR	1									
275	PW	1									
276	PT	2									
277	PW	1									
278	LS	0	77.4								
279	UD	0.16									
280	KK DP-2EL										
281	KM	COMBINE FLOWS AT DP-2EL									
282	HC	2									
283	KK DF/LP										
284	KO	2									
285	KM	ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND									
286	RS	1	STOR		0						
287	SV	0.0	6.5	17.2	33.0	42.8	54.0	80.8	96.4	100.9	114.2
288	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
289	SL	6788.0	4.91	0.60	0.50						
290	SS	6818.5									
291	KK DF-1EC										
292	KM	ROUTE DF/LP TO DF-1EC									
293	RK	415	0.0250	0.015	0	CIRC	2.50				
294	KM	FAIRFAX CREEK OUTFALL TO COITONWOOD CREEK									
295	KK SBEC-1										
296	KM	RUNOFF FROM SBEC-1									
297	BA	0.0138									
298	PR	1									
299	PW	1									
300	PT	2									
301	PW	1									
302	LS	0	80.0								
303	UD	0.11									

304 KK SBEC-2
 305 KM RUNOFF FROM BASIN SBEC-2
 306 BA 0.0263
 307 PR 1
 308 PW 1
 309 PT 2
 310 PW 1
 311 LS 0 69.0

HEC-1 INPUT

PAGE 8

1
 LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
 312 UD 0.13
 313 KK SBEC-3
 314 KM RUNOFF FROM SBEC-3
 315 BA 0.0470
 316 PR 1
 317 PW 1
 318 PT 2
 319 PW 1
 320 LS 0 72.0
 321 UD 0.15
 322 ZZ

1
 SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

20 SBEU-1
   V
   V
29 DP-1EU
   .
   .
32 . SBEU-2
   .
   .
41 DP-1EU.....
   .
   .
44 . SBEU-3
   .
   V
   V
53 . DP-1EU
   .
   .
56 DP-1EU.....
   .
   .
59 . SBEU-4
   .
   .
68 DP-1EU.....
   .
   .
71 . SBEU-5
   .
   .
80 DP-1EU.....
   .
   .
83 . SBEU-6
   .
   V
  
```

92	.	.	V
	.	DP-1EU	.
	.	.	.
95	DP-1EU	.....	.
	.	.	.
	.	V	.
	.	V	.
98	DF/UP	.	.
	.	V	.
	.	V	.
106	DP-1EL	.	.
	.	.	.
109	.	SBEL-6	.
	.	.	.
118	DP-1EL	.....	.
	.	.	.
121	.	SBEL-1	.
	.	.	V
	.	.	V
130	.	DP-1EL	.
	.	.	.
133	DP-1EL	.....	.
	.	.	.
136	.	SBEL-2	.
	.	.	V
	.	.	V
145	.	DP-1EL	.
	.	.	.
148	DP-1EL	.....	.
	.	.	.
151	.	SBEL-3	.
	.	.	V
	.	.	V
160	.	DP-1EL	.
	.	.	.
163	DP-1EL	.....	.
	.	.	.
166	.	SBEL-4	.
	.	.	V
	.	.	V
175	.	DP-1EL	.
	.	.	.
178	DP-1EL	.....	.
	.	.	.
181	.	SBEL-5	.
	.	.	V
	.	.	V
190	.	DP-1EL	.
	.	.	.
193	DP-1EL	.....	.
	.	.	.
196	.	SBEL-7	.
	.	.	V

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND WITH
75% OUTLET AND DEVELOPED LOWER POND AREA WITH LOWER POND
HEC1 (SCS) 100-YEAR RUNOFF (FC48.DAT)

6 IO OUTPUT CONTROL VARIABLES
 IFRNT 5 PRINT CONTROL
 IFLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* *
98 KK * DF/UP *
* *

99 KD OUTPUT CONTROL VARIABLES
 IFRNT 2 PRINT CONTROL
 IFLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)

HYDROGRAPH ROUTING DATA

101 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

102 SV	STORAGE	.0	.1	1.8	18.6	42.3	79.1	103.3	132.0
103 SE	ELEVATION	6956.00	6958.00	6960.00	6966.00	6970.00	6974.00	6976.00	6978.00
104 SL	LOW-LEVEL OUTLET								
	ELEV	6958.00	ELEVATION AT CENTER OF OUTLET						
	CAREA	2.35	CROSS-SECTIONAL AREA						
	COQL	.60	COEFFICIENT						
	EXPL	.50	EXPONENT OF HEAD						
105 SS	SPILLWAY								
	CREL	6976.00	SPILLWAY CREST ELEVATION						
	SPWID	.00	SPILLWAY WIDTH						
	COBW	.00	WEIR COEFFICIENT						
	EXPW	1.50	EXPONENT OF HEAD						

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	10.74	12.08	13.80	16.10	19.30	24.10	32.09	47.98
ELEVATION	6956.00	6958.00	6958.90	6959.14	6959.49	6960.03	6960.91	6962.54	6966.05	6976.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.10	.87	1.07	1.37	1.80	1.87	4.36	8.92	18.60
OUTFLOW	.00	.00	10.74	12.08	13.80	15.99	16.10	19.30	24.10	31.98
ELEVATION	6956.00	6958.00	6958.90	6959.14	6959.49	6960.00	6960.03	6960.91	6962.54	6966.00
STORAGE	18.91	42.30	79.10	103.30	132.00					
OUTFLOW	32.09	39.17	45.23	47.98	50.57					
ELEVATION	6966.05	6970.00	6974.00	6976.00	6978.00					

HYDROGRAPH AT STATION DF/UP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	6956.0	*	1	0820	101	43.	64.1	6972.4	*	1	1640	201	41.	53.9	6971.3			
1	0005	2	0.	.0	6956.0	*	1	0825	102	43.	64.1	6972.4	*	1	1645	202	41.	53.7	6971.2			
1	0010	3	0.	.0	6956.0	*	1	0830	103	43.	64.0	6972.4	*	1	1650	203	41.	53.6	6971.2			
1	0015	4	0.	.0	6956.0	*	1	0835	104	43.	64.0	6972.4	*	1	1655	204	41.	53.4	6971.2			
1	0020	5	0.	.0	6956.0	*	1	0840	105	43.	64.0	6972.4	*	1	1700	205	41.	53.3	6971.2			
1	0025	6	0.	.0	6956.0	*	1	0845	106	43.	63.9	6972.3	*	1	1705	206	41.	53.1	6971.2			
1	0030	7	0.	.0	6956.0	*	1	0850	107	43.	63.9	6972.3	*	1	1710	207	41.	53.0	6971.2			
1	0035	8	0.	.0	6956.0	*	1	0855	108	43.	63.8	6972.3	*	1	1715	208	41.	52.8	6971.1			
1	0040	9	0.	.0	6956.0	*	1	0900	109	43.	63.8	6972.3	*	1	1720	209	41.	52.7	6971.1			
1	0045	10	0.	.0	6956.0	*	1	0905	110	43.	63.8	6972.3	*	1	1725	210	41.	52.5	6971.1			
1	0050	11	0.	.0	6956.0	*	1	0910	111	43.	63.7	6972.3	*	1	1730	211	41.	52.4	6971.1			
1	0055	12	0.	.0	6956.0	*	1	0915	112	43.	63.7	6972.3	*	1	1735	212	41.	52.2	6971.1			
1	0100	13	0.	.0	6956.0	*	1	0920	113	43.	63.6	6972.3	*	1	1740	213	41.	52.1	6971.1			
1	0105	14	0.	.0	6956.0	*	1	0925	114	43.	63.6	6972.3	*	1	1745	214	41.	51.9	6971.0			
1	0110	15	0.	.0	6956.0	*	1	0930	115	43.	63.6	6972.3	*	1	1750	215	41.	51.8	6971.0			
1	0115	16	0.	.0	6956.0	*	1	0935	116	43.	63.5	6972.3	*	1	1755	216	41.	51.6	6971.0			
1	0120	17	0.	.0	6956.0	*	1	0940	117	43.	63.5	6972.3	*	1	1800	217	41.	51.5	6971.0			
1	0125	18	0.	.0	6956.0	*	1	0945	118	43.	63.4	6972.3	*	1	1805	218	41.	51.3	6971.0			
1	0130	19	0.	.0	6956.0	*	1	0950	119	43.	63.4	6972.3	*	1	1810	219	41.	51.2	6971.0			
1	0135	20	0.	.0	6956.0	*	1	0955	120	43.	63.4	6972.3	*	1	1815	220	41.	51.1	6971.0			
1	0140	21	0.	.0	6956.0	*	1	1000	121	43.	63.3	6972.3	*	1	1820	221	41.	50.9	6970.9			
1	0145	22	0.	.0	6956.0	*	1	1005	122	43.	63.2	6972.3	*	1	1825	222	41.	50.8	6970.9			
1	0150	23	0.	.0	6956.0	*	1	1010	123	43.	63.2	6972.3	*	1	1830	223	41.	50.6	6970.9			
1	0155	24	0.	.0	6956.0	*	1	1015	124	43.	63.1	6972.3	*	1	1835	224	41.	50.5	6970.9			

1	0200	25	0.	.0	6956.0 *	1	1020	125	43.	63.0	6972.2 *	1	1840	225	40.	50.3	6970.9
1	0205	26	0.	.0	6956.0 *	1	1025	126	43.	62.9	6972.2 *	1	1845	226	40.	50.2	6970.9
1	0210	27	0.	.0	6956.0 *	1	1030	127	43.	62.8	6972.2 *	1	1850	227	40.	50.0	6970.8
1	0215	28	0.	.0	6956.0 *	1	1035	128	43.	62.7	6972.2 *	1	1855	228	40.	49.9	6970.8
1	0220	29	0.	.0	6956.0 *	1	1040	129	43.	62.6	6972.2 *	1	1900	229	40.	49.7	6970.8
1	0225	30	0.	.0	6956.0 *	1	1045	130	42.	62.5	6972.2 *	1	1905	230	40.	49.6	6970.8
1	0230	31	0.	.0	6956.0 *	1	1050	131	42.	62.4	6972.2 *	1	1910	231	40.	49.4	6970.8
1	0235	32	0.	.0	6956.0 *	1	1055	132	42.	62.3	6972.2 *	1	1915	232	40.	49.3	6970.8
1	0240	33	0.	.0	6956.0 *	1	1100	133	42.	62.2	6972.2 *	1	1920	233	40.	49.2	6970.7
1	0245	34	0.	.0	6956.0 *	1	1105	134	42.	62.1	6972.2 *	1	1925	234	40.	49.0	6970.7
1	0250	35	0.	.0	6956.0 *	1	1110	135	42.	62.0	6972.1 *	1	1930	235	40.	48.9	6970.7
1	0255	36	0.	.0	6956.0 *	1	1115	136	42.	61.9	6972.1 *	1	1935	236	40.	48.7	6970.7
1	0300	37	0.	.0	6956.0 *	1	1120	137	42.	61.8	6972.1 *	1	1940	237	40.	48.6	6970.7
1	0305	38	0.	.0	6956.0 *	1	1125	138	42.	61.7	6972.1 *	1	1945	238	40.	48.4	6970.7
1	0310	39	0.	.0	6956.0 *	1	1130	139	42.	61.6	6972.1 *	1	1950	239	40.	48.3	6970.7
1	0315	40	0.	.0	6956.0 *	1	1135	140	42.	61.5	6972.1 *	1	1955	240	40.	48.1	6970.6
1	0320	41	0.	.0	6956.0 *	1	1140	141	42.	61.4	6972.1 *	1	2000	241	40.	48.0	6970.6
1	0325	42	0.	.0	6956.0 *	1	1145	142	42.	61.3	6972.1 *	1	2005	242	40.	47.8	6970.6
1	0330	43	0.	.0	6956.0 *	1	1150	143	42.	61.2	6972.1 *	1	2010	243	40.	47.6	6970.6
1	0335	44	0.	.0	6956.0 *	1	1155	144	42.	61.1	6972.0 *	1	2015	244	40.	47.4	6970.6
1	0340	45	0.	.0	6956.0 *	1	1200	145	42.	61.0	6972.0 *	1	2020	245	40.	47.2	6970.5
1	0345	46	0.	.0	6956.0 *	1	1205	146	42.	60.9	6972.0 *	1	2025	246	40.	47.0	6970.5
1	0350	47	0.	.0	6956.0 *	1	1210	147	42.	60.8	6972.0 *	1	2030	247	40.	46.8	6970.5
1	0355	48	0.	.0	6956.0 *	1	1215	148	42.	60.7	6972.0 *	1	2035	248	40.	46.6	6970.5
1	0400	49	0.	.0	6956.0 *	1	1220	149	42.	60.6	6972.0 *	1	2040	249	40.	46.4	6970.4
1	0405	50	0.	.0	6956.0 *	1	1225	150	42.	60.5	6972.0 *	1	2045	250	40.	46.2	6970.4
1	0410	51	0.	.0	6956.0 *	1	1230	151	42.	60.4	6972.0 *	1	2050	251	40.	46.0	6970.4
1	0415	52	0.	.0	6956.0 *	1	1235	152	42.	60.3	6972.0 *	1	2055	252	40.	45.8	6970.4
1	0420	53	0.	.0	6956.0 *	1	1240	153	42.	60.3	6972.0 *	1	2100	253	40.	45.6	6970.4
1	0425	54	0.	.0	6956.0 *	1	1245	154	42.	60.2	6971.9 *	1	2105	254	40.	45.4	6970.3
1	0430	55	0.	.0	6956.0 *	1	1250	155	42.	60.1	6971.9 *	1	2110	255	40.	45.2	6970.3
1	0435	56	0.	.0	6956.0 *	1	1255	156	42.	60.0	6971.9 *	1	2115	256	40.	45.0	6970.3
1	0440	57	0.	.0	6956.0 *	1	1300	157	42.	59.9	6971.9 *	1	2120	257	40.	44.8	6970.3
1	0445	58	0.	.0	6956.0 *	1	1305	158	42.	59.8	6971.9 *	1	2125	258	40.	44.6	6970.2
1	0450	59	0.	.0	6956.0 *	1	1310	159	42.	59.6	6971.9 *	1	2130	259	40.	44.3	6970.2
1	0455	60	0.	.0	6956.0 *	1	1315	160	42.	59.5	6971.9 *	1	2135	260	39.	44.1	6970.2
1	0500	61	0.	.0	6956.0 *	1	1320	161	42.	59.4	6971.9 *	1	2140	261	39.	43.9	6970.2
1	0505	62	0.	.0	6956.0 *	1	1325	162	42.	59.3	6971.8 *	1	2145	262	39.	43.7	6970.2
1	0510	63	0.	.0	6956.0 *	1	1330	163	42.	59.2	6971.8 *	1	2150	263	39.	43.5	6970.1
1	0515	64	0.	.0	6956.0 *	1	1335	164	42.	59.1	6971.8 *	1	2155	264	39.	43.3	6970.1
1	0520	65	0.	.0	6956.8 *	1	1340	165	42.	58.9	6971.8 *	1	2200	265	39.	43.1	6970.1
1	0525	66	3.	.3	6958.3 *	1	1345	166	42.	58.8	6971.8 *	1	2205	266	39.	42.9	6970.1
1	0530	67	14.	1.4	6959.6 *	1	1350	167	42.	58.7	6971.8 *	1	2210	267	39.	42.7	6970.0
1	0535	68	19.	4.2	6960.8 *	1	1355	168	42.	58.6	6971.8 *	1	2215	268	39.	42.5	6970.0
1	0540	69	24.	9.2	6962.6 *	1	1400	169	42.	58.5	6971.8 *	1	2220	269	39.	42.3	6970.0
1	0545	70	30.	16.6	6965.3 *	1	1405	170	42.	58.3	6971.7 *	1	2225	270	39.	42.1	6970.0
1	0550	71	34.	23.8	6967.2 *	1	1410	171	42.	58.2	6971.7 *	1	2230	271	39.	41.9	6969.9
1	0555	72	37.	35.1	6968.8 *	1	1415	172	42.	58.1	6971.7 *	1	2235	272	39.	41.7	6969.9
1	0600	73	39.	42.7	6970.0 *	1	1420	173	42.	57.9	6971.7 *	1	2240	273	39.	41.5	6969.9
1	0605	74	40.	48.0	6970.6 *	1	1425	174	42.	57.8	6971.7 *	1	2245	274	39.	41.3	6969.8
1	0610	75	41.	51.5	6971.0 *	1	1430	175	42.	57.7	6971.7 *	1	2250	275	39.	41.1	6969.8
1	0615	76	41.	53.8	6971.3 *	1	1435	176	42.	57.6	6971.7 *	1	2255	276	39.	40.9	6969.8
1	0620	77	41.	55.6	6971.4 *	1	1440	177	42.	57.4	6971.6 *	1	2300	277	39.	40.7	6969.7
1	0625	78	42.	56.9	6971.6 *	1	1445	178	42.	57.3	6971.6 *	1	2305	278	39.	40.5	6969.7
1	0630	79	42.	57.9	6971.7 *	1	1450	179	42.	57.2	6971.6 *	1	2310	279	39.	40.3	6969.7
1	0635	80	42.	58.7	6971.8 *	1	1455	180	42.	57.0	6971.6 *	1	2315	280	39.	40.1	6969.6
1	0640	81	42.	59.4	6971.9 *	1	1500	181	42.	56.9	6971.6 *	1	2320	281	38.	39.9	6969.6
1	0645	82	42.	60.0	6971.9 *	1	1505	182	42.	56.8	6971.6 *	1	2325	282	38.	39.7	6969.6
1	0650	83	42.	60.5	6972.0 *	1	1510	183	42.	56.6	6971.6 *	1	2330	283	38.	39.5	6969.5
1	0655	84	42.	60.9	6972.0 *	1	1515	184	42.	56.5	6971.5 *	1	2335	284	38.	39.4	6969.5
1	0700	85	42.	61.3	6972.1 *	1	1520	185	41.	56.3	6971.5 *	1	2340	285	38.	39.2	6969.5
1	0705	86	42.	61.6	6972.1 *	1	1525	186	41.	56.2	6971.5 *	1	2345	286	38.	39.0	6969.4
1	0710	87	42.	61.9	6972.1 *	1	1530	187	41.	56.0	6971.5 *	1	2350	287	38.	38.8	6969.4
1	0715	88	42.	62.2	6972.2 *	1	1535	188	41.	55.9	6971.5 *	1	2355	288	38.	38.6	6969.4
1	0720	89	42.	62.4	6972.2 *	1	1540	189	41.	55.7	6971.5 *	2	0000	289	38.	38.4	6969.4
1	0725	90	43.	62.6	6972.2 *	1	1545	190	41.	55.6	6971.4 *	2	0000	290	38.	38.2	6969.4

*

284 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND

HYDROGRAPH ROUTING DATA

286 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

287 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2

288 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

289 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COOL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

290 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWD .00 SPILLWAY WIDTH
 CURW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00

STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	130.48	133.65			
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	33.	.0	6790.0	*	1	0820	101	110.	40.6	6809.6	*	1	1640	201	90.	13.1	6800.0			
1	0005	2	32.	-1.1	6790.0	*	1	0825	102	110.	40.4	6809.5	*	1	1645	202	89.	12.9	6800.0			
1	0010	3	32.	-1.1	6790.0	*	1	0830	103	109.	40.1	6809.3	*	1	1650	203	89.	12.7	6800.0			
1	0015	4	32.	-1.1	6790.0	*	1	0835	104	109.	39.9	6809.4	*	1	1655	204	87.	12.4	6800.0			
1	0020	5	32.	-1.1	6790.0	*	1	0840	105	109.	39.6	6809.3	*	1	1700	205	85.	12.0	6800.0			

1	0025	6	32.	-1	6790.0	*	1	0845	106	109.	39.3	6809.3	*	1	1705	206	88.	11.9	6802.0
1	0030	7	32.	-1	6790.0	*	1	0850	107	109.	39.0	6809.2	*	1	1710	207	88.	11.7	6801.9
1	0035	8	32.	-1	6790.0	*	1	0855	108	109.	38.7	6809.2	*	1	1715	208	88.	11.5	6801.8
1	0040	9	32.	-1	6790.0	*	1	0900	109	109.	38.5	6809.1	*	1	1720	209	87.	11.2	6801.7
1	0045	10	32.	-1	6790.0	*	1	0905	110	108.	38.2	6809.1	*	1	1725	210	87.	11.0	6801.7
1	0050	11	32.	-1	6790.0	*	1	0910	111	108.	37.9	6809.0	*	1	1730	211	87.	10.8	6801.6
1	0055	12	32.	-1	6790.0	*	1	0915	112	108.	37.6	6808.9	*	1	1735	212	87.	10.6	6801.5
1	0100	13	32.	-1	6790.0	*	1	0920	113	108.	37.4	6808.9	*	1	1740	213	86.	10.3	6801.4
1	0105	14	32.	-1	6790.0	*	1	0925	114	108.	37.1	6808.8	*	1	1745	214	86.	10.1	6801.3
1	0110	15	32.	-1	6790.0	*	1	0930	115	108.	36.8	6808.8	*	1	1750	215	86.	9.9	6801.3
1	0115	16	32.	-1	6790.0	*	1	0935	116	108.	36.5	6808.7	*	1	1755	216	86.	9.7	6801.2
1	0120	17	32.	-1	6790.0	*	1	0940	117	107.	36.3	6808.7	*	1	1800	217	85.	9.4	6801.1
1	0125	18	32.	-1	6790.0	*	1	0945	118	107.	36.0	6808.6	*	1	1805	218	85.	9.2	6801.0
1	0130	19	32.	-1	6790.0	*	1	0950	119	107.	35.7	6808.6	*	1	1810	219	85.	9.0	6800.9
1	0135	20	32.	-1	6790.0	*	1	0955	120	107.	35.5	6808.5	*	1	1815	220	85.	8.8	6800.9
1	0140	21	32.	-1	6790.0	*	1	1000	121	107.	35.2	6808.4	*	1	1820	221	84.	8.6	6800.8
1	0145	22	32.	-1	6790.0	*	1	1005	122	107.	34.9	6808.4	*	1	1825	222	84.	8.4	6800.7
1	0150	23	32.	-1	6790.0	*	1	1010	123	107.	34.6	6808.3	*	1	1830	223	84.	8.2	6800.6
1	0155	24	32.	-1	6790.0	*	1	1015	124	106.	34.3	6808.3	*	1	1835	224	84.	8.0	6800.5
1	0200	25	32.	-1	6790.0	*	1	1020	125	106.	34.0	6808.2	*	1	1840	225	83.	7.8	6800.5
1	0205	26	32.	-1	6790.0	*	1	1025	126	106.	33.7	6808.1	*	1	1845	226	83.	7.6	6800.4
1	0210	27	32.	-1	6790.0	*	1	1030	127	106.	33.4	6808.1	*	1	1850	227	83.	7.4	6800.3
1	0215	28	32.	-1	6790.0	*	1	1035	128	106.	33.1	6808.0	*	1	1855	228	83.	7.1	6800.2
1	0220	29	32.	-1	6790.0	*	1	1040	129	106.	32.8	6808.0	*	1	1900	229	82.	7.0	6800.2
1	0225	30	32.	-1	6790.0	*	1	1045	130	105.	32.5	6807.9	*	1	1905	230	82.	6.8	6800.1
1	0230	31	32.	-1	6790.0	*	1	1050	131	105.	32.2	6807.8	*	1	1910	231	82.	6.6	6800.0
1	0235	32	32.	-1	6790.0	*	1	1055	132	105.	31.9	6807.7	*	1	1915	232	81.	6.4	6799.8
1	0240	33	32.	-1	6790.0	*	1	1100	133	105.	31.6	6807.7	*	1	1920	233	80.	6.2	6799.5
1	0245	34	32.	-1	6790.0	*	1	1105	134	105.	31.3	6807.6	*	1	1925	234	79.	6.0	6799.2
1	0250	35	32.	-1	6790.0	*	1	1110	135	104.	31.0	6807.5	*	1	1930	235	78.	5.8	6799.0
1	0255	36	32.	-1	6790.0	*	1	1115	136	104.	30.8	6807.4	*	1	1935	236	77.	5.7	6798.7
1	0300	37	32.	-1	6790.0	*	1	1120	137	104.	30.5	6807.4	*	1	1940	237	76.	5.5	6798.5
1	0305	38	32.	-1	6790.0	*	1	1125	138	104.	30.2	6807.3	*	1	1945	238	75.	5.3	6798.2
1	0310	39	32.	-1	6790.0	*	1	1130	139	104.	29.9	6807.2	*	1	1950	239	74.	5.2	6798.0
1	0315	40	32.	-1	6790.0	*	1	1135	140	103.	29.6	6807.1	*	1	1955	240	74.	5.0	6797.8
1	0320	41	32.	-1	6790.0	*	1	1140	141	103.	29.3	6807.1	*	1	2000	241	73.	4.9	6797.5
1	0325	42	32.	-1	6790.0	*	1	1145	142	103.	29.0	6807.0	*	1	2005	242	72.	4.8	6797.3
1	0330	43	32.	-1	6790.0	*	1	1150	143	103.	28.7	6806.9	*	1	2010	243	71.	4.6	6797.1
1	0335	44	32.	-1	6790.0	*	1	1155	144	103.	28.5	6806.8	*	1	2015	244	70.	4.5	6796.9
1	0340	45	32.	-1	6790.0	*	1	1200	145	102.	28.2	6806.8	*	1	2020	245	69.	4.3	6796.7
1	0345	46	32.	-1	6790.0	*	1	1205	146	102.	27.9	6806.7	*	1	2025	246	68.	4.2	6796.4
1	0350	47	32.	-1	6790.0	*	1	1210	147	102.	27.6	6806.6	*	1	2030	247	68.	4.0	6796.2
1	0355	48	32.	-1	6790.0	*	1	1215	148	102.	27.3	6806.6	*	1	2035	248	67.	3.9	6796.0
1	0400	49	32.	-1	6790.0	*	1	1220	149	102.	27.1	6806.5	*	1	2040	249	66.	3.8	6795.8
1	0405	50	32.	-1	6790.0	*	1	1225	150	101.	26.8	6806.4	*	1	2045	250	65.	3.7	6795.6
1	0410	51	32.	-1	6790.0	*	1	1230	151	101.	26.5	6806.4	*	1	2050	251	64.	3.5	6795.4
1	0415	52	32.	-1	6790.0	*	1	1235	152	101.	26.2	6806.3	*	1	2055	252	63.	3.4	6795.3
1	0420	53	32.	-1	6790.0	*	1	1240	153	101.	26.0	6806.2	*	1	2100	253	63.	3.3	6795.1
1	0425	54	32.	-1	6790.0	*	1	1245	154	101.	25.7	6806.1	*	1	2105	254	62.	3.2	6794.9
1	0430	55	32.	-1	6790.0	*	1	1250	155	100.	25.4	6806.1	*	1	2110	255	61.	3.1	6794.8
1	0435	56	32.	-1	6790.0	*	1	1255	156	100.	25.1	6806.0	*	1	2115	256	61.	3.0	6794.6
1	0440	57	32.	-1	6790.0	*	1	1300	157	100.	24.9	6805.9	*	1	2120	257	60.	2.9	6794.5
1	0445	58	32.	-1	6790.0	*	1	1305	158	100.	24.6	6805.9	*	1	2125	258	59.	2.8	6794.3
1	0450	59	32.	-1	6790.0	*	1	1310	159	100.	24.3	6805.8	*	1	2130	259	59.	2.7	6794.1
1	0455	60	32.	-1	6790.0	*	1	1315	160	99.	24.1	6805.7	*	1	2135	260	58.	2.6	6794.0
1	0500	61	32.	-1	6790.0	*	1	1320	161	99.	23.8	6805.7	*	1	2140	261	58.	2.6	6793.9
1	0505	62	32.	-1	6790.0	*	1	1325	162	99.	23.5	6805.6	*	1	2145	262	57.	2.5	6793.8
1	0510	63	32.	-1	6790.0	*	1	1330	163	99.	23.2	6805.5	*	1	2150	263	56.	2.4	6793.7
1	0515	64	32.	-1	6790.0	*	1	1335	164	99.	23.0	6805.5	*	1	2155	264	56.	2.3	6793.6
1	0520	65	32.	-1	6790.0	*	1	1340	165	99.	22.7	6805.4	*	1	2200	265	55.	2.3	6793.4
1	0525	66	32.	-1	6790.0	*	1	1345	166	98.	22.4	6805.3	*	1	2205	266	55.	2.2	6793.4
1	0530	67	35.	-1	6790.2	*	1	1350	167	98.	22.1	6805.3	*	1	2210	267	54.	2.2	6793.2
1	0535	68	48.	1.4	6792.2	*	1	1355	168	98.	21.9	6805.2	*	1	2215	268	54.	2.1	6793.0
1	0540	69	72.	4.7	6797.3	*	1	1400	169	98.	21.6	6805.1	*	1	2220	269	53.	2.0	6792.8
1	0545	70	86.	10.1	6801.4	*	1	1405	170	98.	21.3	6805.0	*	1	2225	270	53.	1.9	6792.6
1	0550	71	94.	15.6	6803.8	*	1	1410	171	97.	21.1	6805.0	*	1	2230	271	52.	1.8	6792.4

+	HYDROGRAPH AT	SBEU-1	272.	5.75	29.	9.	9.	.15
+	ROUTED TO	DP-1EU	265.	5.83	29.	9.	9.	.15
+	HYDROGRAPH AT	SBEU-2	375.	5.83	43.	13.	13.	.19
+	2 COMBINED AT	DP-1EU	641.	5.83	72.	22.	21.	.33
+	HYDROGRAPH AT	SBEU-3	219.	5.83	24.	7.	7.	.11
+	ROUTED TO	DP-1EU	217.	5.83	24.	7.	7.	.11
+	2 COMBINED AT	DP-1EU	858.	5.83	96.	29.	28.	.44
+	HYDROGRAPH AT	SBEU-4	338.	5.83	40.	12.	12.	.20
+	2 COMBINED AT	DP-1EU	1196.	5.83	136.	42.	40.	.64
+	HYDROGRAPH AT	SBEU-5	90.	5.83	9.	3.	3.	.07
+	2 COMBINED AT	DP-1EU	1287.	5.83	145.	45.	43.	.72
+	HYDROGRAPH AT	SBEU-6	174.	5.83	20.	6.	6.	.11
+	ROUTED TO	DP-1EU	171.	5.83	20.	6.	6.	.11
+	2 COMBINED AT	DP-1EU	1457.	5.83	165.	51.	49.	.83
+	ROUTED TO	DF/UP	43.	8.17	43.	33.	32.	.83
+	ROUTED TO	DP-1EL	43.	8.25	43.	33.	32.	.83
+	HYDROGRAPH AT	SBEL-6	178.	5.75	19.	6.	5.	.06
+	2 COMBINED AT	DP-1EL	206.	5.75	59.	39.	37.	.89
+	HYDROGRAPH AT	SBEL-1	46.	5.75	5.	1.	1.	.03
+	ROUTED TO	DP-1EL	46.	5.83	5.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	247.	5.75	63.	40.	39.	.91
+	HYDROGRAPH AT							

6972.37

8.25

+		SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	294.	5.75	69.	42.	40.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	385.	5.75	78.	44.	43.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	456.	5.75	86.	47.	45.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	542.	5.75	95.	49.	48.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	617.	5.75	103.	52.	50.	1.06
+	ROUTED TO	DP-2EL	607.	5.92	107.	52.	51.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-2EL	51.	6.00	6.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	656.	5.92	112.	54.	52.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	117.	5.83	13.	4.	4.	.07
+	2 COMBINED AT	DP-2EL	769.	5.92	125.	58.	56.	1.16
+	HYDROGRAPH AT							

+		SBEL10	78.	5.75	8.	2.	2.	.04		
+	2 COMBINED AT	DP-2EL	811.	5.92	133.	61.	58.	1.21		
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05		
+	ROUTED TO	DP-2EL	115.	5.92	14.	4.	4.	.05		
+	2 COMBINED AT	DP-2EL	925.	5.92	146.	65.	62.	1.25		
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11		
+	2 COMBINED AT	DP-2EL	1064.	5.92	166.	71.	68.	1.36		
+	ROUTED TO	DF/LP	111.	7.00	108.	76.	75.	1.36		
+									6809.99	7.00
+	ROUTED TO	DP-1EC	111.	7.00	108.	76.	75.	1.36		
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01		
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03		
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05		

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

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND WITH 75% OUTLET									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC49.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IQ	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	78.8								
28	UD	0.15									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.016	0	TRAP	8	10			
32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	PR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	83.1								
40	UD	0.21									
41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									

9

44 KK SBEU-3
 45 KM RUNOFF FROM SBEU-3
 46 BA 0.1117
 47 PR 1
 48 PW 1
 49 PT 2

HEC-1 INPUT

1

LINE	ID	1	2	3	4	5	6	7	8	9	10
50	PW	1									
51	LS	0	80.5								
52	UD	0.16									
53	KK	DP-1EU									
54	KM	ROUTE SBEU-3 TO DP-1EU									
55	RK	3400	0.0290	0.016	0	TRAP	B		10		
56	KK	DP-1EU									
57	KM	COMBINE FLOWS AT DP-1EU									
58	HC	2									
59	KK	SBEU-4									
60	KM	RUNOFF FROM SBEU-4									
61	BA	0.2019									
62	PR	1									
63	PW	1									
64	PT	2									
65	PW	1									
66	LS	0	78.7								
67	UD	0.22									
68	KK	DP-1EU									
69	KM	COMBINE FLOWS AT DP-1EU									
70	HC	2									
71	KK	SBEU-5									
72	KM	RUNOFF FROM SBEU-5									
73	BA	0.0741									
74	PR	1									
75	PW	1									
76	PT	2									
77	PW	1									
78	LS	0	69.0								
79	UD	0.16									
80	KK	DP-1EU									
81	KM	COMBINE FLOWS AT DP-1EU									
82	HC	2									
83	KK	SBEU-6									
84	KM	RUNOFF FROM SBEU-6									
85	BA	0.1064									
86	PR	1									
87	PW	1									
88	PT	2									
89	PW	1									
90	LS	0	77.1								
91	UD	0.20									

HEC-1 INPUT

1

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

92 KK DP-1EU

93	KM	ROUTE SBEL-6 TO DP-1EU						
94	RK	1000	0.0400	0.016	0	TRAP	8	10
95	KK	DP-1EU						
96	KM	COMBINE FLOWS AT DP-1EU						
97	HC	2						
98	KK	DF/UP						
99	KD	2						
100	KM	ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)						
101	RS	1	STOR	0				
102	SV	0.0	0.1	1.8	18.6	42.3	79.1	103.3
103	SE	6956.0	6958.0	6960.0	6966.0	6970.0	6974.0	6976.0
104	SL	6958.0	3.14	0.60	0.50			
105	SS	6976.0						
106	KK	DP-1EL						
107	KM	ROUTE DP-1EU TO DP-1EL						
108	RK	2000	0.0200	0.015	0	CIRC	2	
109	KK	SBEL-6						
110	KM	RUNOFF FROM SBEL-6						
111	BA	0.0597						
112	PR	1						
113	PW	1						
114	PT	2						
115	PW	1						
116	LS	0	92.0					
117	UD	0.13						
118	KK	DP-1EL						
119	KM	COMBINE FLOWS AT DP-1EL						
120	HC	2						
121	KK	SBEL-1						
122	KM	RUNOFF FROM SBEL-1						
123	BA	0.0282						
124	PR	1						
125	PW	1						
126	PT	2						
127	PW	1						
128	LS	0	75.0					
129	UD	0.14						
130	KK	DP-1EL						
131	KM	ROUTE SBEL-1 TO DP-1EL						
132	RK	1600	0.0380	0.016	0	TRAP	8	10

PAGE 4

1

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

133	KK	DP-1EL						
134	KM	COMBINE FLOWS AT DP-1EL						
135	HC	2						
136	KK	SBEL-2						
137	KM	RUNOFF FROM SBEL-2						
138	BA	0.0251						
139	PR	1						
140	PW	1						
141	PT	2						
142	PW	1						
143	LS	0	80.2					
144	UD	0.13						

301 PW 1
 302 LS 0 80.0
 303 UD 0.11

304 KK SBEC-2
 305 KM RUNOFF FROM BASIN SBEC-2
 306 BA 0.0263
 307 FR 1
 308 PW 1
 309 PT 2
 310 PW 1
 311 LS 0 69.0

HEC-1 INPUT

1

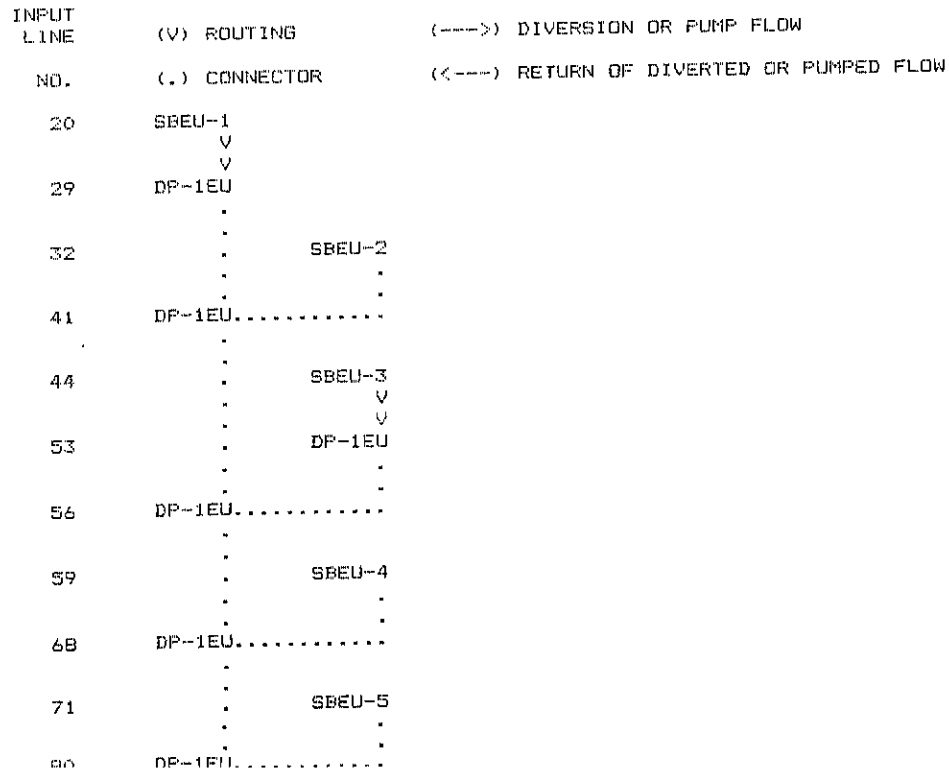
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

312 UD 0.13

313 KK SBEC-3
 314 KM RUNOFF FROM SBEC-3
 315 BA 0.0470
 316 FR 1
 317 PW 1
 318 PT 2
 319 PW 1
 320 LS 0 72.0
 321 UD 0.15
 322 ZZ

1

SCHMATIC DIAGRAM OF STREAM NETWORK



83	.	SBEL-6
	.	∨
	.	∨
92	.	DP-1EU
	.	.
95	DP-1EU.....	.
	∨	
	∨	
98	DF/LJP	
	∨	
	∨	
106	DP-1EL	
	.	
109	.	SBEL-6
	.	.
118	DP-1EL.....	.
	.	
121	.	SBEL-1
	.	∨
	.	∨
130	.	DP-1EL
	.	.
133	DP-1EL.....	.
	.	
136	.	SBEL-2
	.	∨
	.	∨
145	.	DP-1EL
	.	.
148	DP-1EL.....	.
	.	
151	.	SBEL-3
	.	∨
	.	∨
160	.	DP-1EL
	.	.
163	DP-1EL.....	.
	.	
166	.	SBEL-4
	.	∨
	.	∨
175	.	DP-1EL
	.	.
178	DP-1EL.....	.
	.	
181	.	SBEL-5
	.	∨
	.	∨
190	.	DP-1EL
	.	.
193	DP-1EL	.

196	.	SBEL-7	
	.	∨	
	.	∨	
205	.	DF-1EL	
	.	.	
208	.	DF-1EL.....	
	.	∨	
	.	∨	
211	.	DF-2EL	
	.	.	
214	.	SBEL-8	
	.	∨	
	.	∨	
223	.	DF-2EL	
	.	.	
226	.	DF-2EL.....	
	.	.	
229	.	SBEL-9	
	.	∨	
	.	∨	
238	.	DF-2EL	
	.	.	
241	.	DF-2EL.....	
	.	.	
244	.	SBEL10	
	.	.	
253	.	DF-2EL.....	
	.	.	
256	.	SBEL11	
	.	∨	
	.	∨	
265	.	DF-2EL	
	.	.	
268	.	DF-2EL.....	
	.	.	
271	.	SBEL12	
	.	.	
	.	.	
280	.	DF-2EL.....	
	.	∨	
	.	∨	
283	.	DF/LP	
	.	∨	
	.	∨	
291	.	DF-1EC	
	.	.	
295	.	SBEC-1	
	.	.	
304	.	.	SBEC-2
	.	.	.
	.	.	.
717	.	.	SBEC-3

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND
DEVELOPED LOWER POND AREA WITH LOWER POND WITH 75% OUTLET
HEC1 (SCS) 100-YEAR RUNOFF (FC49.DAT)

6 IO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLGT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 5 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NQ 300 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

98 KK *****
* *
* DF/UP *
* *

99 KD OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLGT 1 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)

HYDROGRAPH ROUTING DATA

101 RS STORAGE ROUTING
MOTFS 1 NUMBER OF SURFACES

ITYP	STOR	TYPE OF INITIAL CONDITION							
RSVRIC	.00	INITIAL CONDITION							
X	.00	WORKING R AND D COEFFICIENT							
102 SV	STORAGE	.0	.1	1.8	18.6	42.3	79.1	103.3	132.0
103 SE	ELEVATION	6956.00	6958.00	6960.00	6966.00	6970.00	6974.00	6976.00	6978.00
104 SL	LOW-LEVEL OUTLET								
	ELEV	6958.00	ELEVATION AT CENTER OF OUTLET						
	CAREA	3.14	CROSS-SECTIONAL AREA						
	COOL	.60	COEFFICIENT						
	EXPL	.50	EXPONENT OF HEAD						
105 SS	SPILLWAY								
	CREL	6976.00	SPILLWAY CREST ELEVATION						
	SFWD	.00	SPILLWAY WIDTH						
	COBW	.00	WEIR COEFFICIENT						
	EXPW	1.50	EXPONENT OF HEAD						

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	15.40	17.27	19.67	22.83	27.21	33.67	44.15	64.10
ELEVATION	6956.00	6958.00	6959.04	6959.31	6959.69	6960.28	6961.24	6962.97	6966.54	6976.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.10	.98	1.21	1.54	1.80	2.59	5.28	10.11	18.60
OUTFLOW	.00	.00	15.40	17.27	19.67	21.37	22.83	27.21	33.67	42.74
ELEVATION	6956.00	6958.00	6959.04	6959.31	6959.69	6960.00	6960.28	6961.24	6962.97	6966.00
STORAGE	21.80	42.30	79.10	103.30	132.00					
OUTFLOW	44.15	52.34	60.44	64.10	67.37					
ELEVATION	6966.54	6970.00	6974.00	6976.00	6978.00					

HYDROGRAPH AT STATION DF/UP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	6956.0	*	1	0820	101	56.	61.0	6972.0	*	1	1640	201	52.	42.2	6970.0			
1	0005	2	0.	.0	6956.0	*	1	0825	102	56.	60.9	6972.0	*	1	1645	202	52.	42.0	6969.9			
1	0010	3	0.	.0	6956.0	*	1	0830	103	56.	60.8	6972.0	*	1	1650	203	52.	41.8	6969.9			
1	0015	4	0.	.0	6956.0	*	1	0835	104	56.	60.6	6972.0	*	1	1655	204	52.	41.5	6969.9			
1	0020	5	0.	.0	6956.0	*	1	0840	105	56.	60.5	6972.0	*	1	1700	205	52.	41.3	6969.8			
1	0025	6	0.	.0	6956.0	*	1	0845	106	56.	60.4	6972.0	*	1	1705	206	52.	41.1	6969.8			
1	0030	7	0.	.0	6956.0	*	1	0850	107	56.	60.2	6972.0	*	1	1710	207	52.	40.8	6969.8			
1	0035	8	0.	.0	6956.0	*	1	0855	108	56.	60.1	6971.9	*	1	1715	208	52.	40.6	6969.7			
1	0040	9	0.	.0	6956.0	*	1	0900	109	56.	60.0	6971.9	*	1	1720	209	52.	40.4	6969.7			
1	0045	10	0.	.0	6956.0	*	1	0905	110	56.	59.8	6971.9	*	1	1725	210	51.	40.2	6969.6			
1	0050	11	0.	.0	6956.0	*	1	0910	111	56.	59.7	6971.9	*	1	1730	211	51.	40.0	6969.6			
1	0055	12	0.	.0	6956.0	*	1	0915	112	56.	59.6	6971.9	*	1	1735	212	51.	39.7	6969.6			
1	0100	13	0.	.0	6956.0	*	1	0920	113	56.	59.5	6971.9	*	1	1740	213	51.	39.5	6969.5			
1	0105	14	0.	.0	6956.0	*	1	0925	114	56.	59.3	6971.9	*	1	1745	214	51.	39.3	6969.5			
1	0110	15	0.	.0	6956.0	*	1	0930	115	56.	59.2	6971.8	*	1	1750	215	51.	39.1	6969.5			
1	0115	16	0.	.0	6956.0	*	1	0935	116	56.	59.1	6971.8	*	1	1755	216	51.	38.9	6969.4			
1	0120	17	0.	.0	6956.0	*	1	0940	117	56.	58.9	6971.8	*	1	1800	217	51.	38.6	6969.4			
1	0125	18	0.	.0	6956.0	*	1	0945	118	56.	58.8	6971.8	*	1	1805	218	51.	38.4	6969.4			
1	0130	19	0.	.0	6956.0	*	1	0950	119	56.	58.7	6971.8	*	1	1810	219	51.	38.2	6969.3			
1	0135	20	0.	.0	6956.0	*	1	0955	120	56.	58.5	6971.8	*	1	1815	220	51.	38.0	6969.3			

1	0140	21	0.	.0	6956.0	*	1	1000	121	56.	58.4	6971.7	*	1	1820	221	51.	37.8	6969.2
1	0145	22	0.	.0	6956.0	*	1	1005	122	56.	58.2	6971.7	*	1	1825	222	50.	37.6	6969.2
1	0150	23	0.	.0	6956.0	*	1	1010	123	56.	58.1	6971.7	*	1	1830	223	50.	37.3	6969.2
1	0155	24	0.	.0	6956.0	*	1	1015	124	56.	57.9	6971.7	*	1	1835	224	50.	37.1	6969.1
1	0200	25	0.	.0	6956.0	*	1	1020	125	56.	57.7	6971.7	*	1	1840	225	50.	36.9	6969.1
1	0205	26	0.	.0	6956.0	*	1	1025	126	56.	57.5	6971.7	*	1	1845	226	50.	36.7	6969.1
1	0210	27	0.	.0	6956.0	*	1	1030	127	56.	57.3	6971.6	*	1	1850	227	50.	36.5	6969.0
1	0215	28	0.	.0	6956.0	*	1	1035	128	56.	57.1	6971.6	*	1	1855	228	50.	36.3	6969.0
1	0220	29	0.	.0	6956.0	*	1	1040	129	56.	56.9	6971.6	*	1	1900	229	50.	36.1	6968.9
1	0225	30	0.	.0	6956.0	*	1	1045	130	56.	56.8	6971.6	*	1	1905	230	50.	35.9	6968.9
1	0230	31	0.	.0	6956.0	*	1	1050	131	55.	56.6	6971.6	*	1	1910	231	50.	35.6	6968.9
1	0235	32	0.	.0	6956.0	*	1	1055	132	55.	56.4	6971.5	*	1	1915	232	50.	35.4	6968.8
1	0240	33	0.	.0	6956.0	*	1	1100	133	55.	56.2	6971.5	*	1	1920	233	50.	35.2	6968.8
1	0245	34	0.	.0	6956.0	*	1	1105	134	55.	56.0	6971.5	*	1	1925	234	49.	35.0	6968.8
1	0250	35	0.	.0	6956.0	*	1	1110	135	55.	55.8	6971.5	*	1	1930	235	49.	34.8	6968.7
1	0255	36	0.	.0	6956.0	*	1	1115	136	55.	55.6	6971.4	*	1	1935	236	49.	34.6	6968.7
1	0300	37	0.	.0	6956.0	*	1	1120	137	55.	55.4	6971.4	*	1	1940	237	49.	34.4	6968.7
1	0305	38	0.	.0	6956.0	*	1	1125	138	55.	55.2	6971.4	*	1	1945	238	49.	34.2	6968.6
1	0310	39	0.	.0	6956.0	*	1	1130	139	55.	55.1	6971.4	*	1	1950	239	49.	34.0	6968.6
1	0315	40	0.	.0	6956.0	*	1	1135	140	55.	54.9	6971.4	*	1	1955	240	49.	33.8	6968.6
1	0320	41	0.	.0	6956.0	*	1	1140	141	55.	54.7	6971.3	*	1	2000	241	49.	33.6	6968.5
1	0325	42	0.	.0	6956.0	*	1	1145	142	55.	54.5	6971.3	*	1	2005	242	49.	33.3	6968.5
1	0330	43	0.	.0	6956.0	*	1	1150	143	55.	54.3	6971.3	*	1	2010	243	49.	33.1	6968.4
1	0335	44	0.	.0	6956.0	*	1	1155	144	55.	54.1	6971.3	*	1	2015	244	49.	32.8	6968.4
1	0340	45	0.	.0	6956.0	*	1	1200	145	55.	54.0	6971.3	*	1	2020	245	48.	32.6	6968.4
1	0345	46	0.	.0	6956.0	*	1	1205	146	55.	53.8	6971.2	*	1	2025	246	48.	32.3	6968.3
1	0350	47	0.	.0	6956.0	*	1	1210	147	55.	53.6	6971.2	*	1	2030	247	48.	32.1	6968.3
1	0355	48	0.	.0	6956.0	*	1	1215	148	55.	53.4	6971.2	*	1	2035	248	48.	31.8	6968.2
1	0400	49	0.	.0	6956.0	*	1	1220	149	55.	53.2	6971.2	*	1	2040	249	48.	31.5	6968.2
1	0405	50	0.	.0	6956.0	*	1	1225	150	55.	53.0	6971.2	*	1	2045	250	48.	31.3	6968.1
1	0410	51	0.	.0	6956.0	*	1	1230	151	55.	52.9	6971.1	*	1	2050	251	48.	31.0	6968.1
1	0415	52	0.	.0	6956.0	*	1	1235	152	55.	52.7	6971.1	*	1	2055	252	48.	30.7	6968.0
1	0420	53	0.	.0	6956.0	*	1	1240	153	55.	52.5	6971.1	*	1	2100	253	48.	30.5	6968.0
1	0425	54	0.	.0	6956.0	*	1	1245	154	55.	52.3	6971.1	*	1	2105	254	48.	30.2	6968.0
1	0430	55	0.	.0	6956.0	*	1	1250	155	55.	52.1	6971.1	*	1	2110	255	47.	30.0	6967.9
1	0435	56	0.	.0	6956.0	*	1	1255	156	54.	51.9	6971.0	*	1	2115	256	47.	29.7	6967.9
1	0440	57	0.	.0	6956.0	*	1	1300	157	54.	51.8	6971.0	*	1	2120	257	47.	29.4	6967.8
1	0445	58	0.	.0	6956.0	*	1	1305	158	54.	51.6	6971.0	*	1	2125	258	47.	29.2	6967.8
1	0450	59	0.	.0	6956.0	*	1	1310	159	54.	51.4	6971.0	*	1	2130	259	47.	28.9	6967.7
1	0455	60	0.	.0	6956.0	*	1	1315	160	54.	51.2	6971.0	*	1	2135	260	47.	28.7	6967.7
1	0500	61	0.	.0	6956.0	*	1	1320	161	54.	51.0	6970.9	*	1	2140	261	47.	28.4	6967.7
1	0505	62	0.	.0	6956.0	*	1	1325	162	54.	50.8	6970.9	*	1	2145	262	47.	28.2	6967.6
1	0510	63	0.	.0	6956.0	*	1	1330	163	54.	50.6	6970.9	*	1	2150	263	47.	27.9	6967.6
1	0515	64	0.	.0	6956.0	*	1	1335	164	54.	50.4	6970.9	*	1	2155	264	46.	27.6	6967.5
1	0520	65	0.	.0	6956.8	*	1	1340	165	54.	50.2	6970.9	*	1	2200	265	46.	27.4	6967.5
1	0525	66	4.	.3	6958.3	*	1	1345	166	54.	50.0	6970.8	*	1	2205	266	46.	27.1	6967.4
1	0530	67	19.	1.4	6959.5	*	1	1350	167	54.	49.8	6970.8	*	1	2210	267	46.	26.9	6967.4
1	0535	68	25.	4.1	6960.8	*	1	1355	168	54.	49.6	6970.8	*	1	2215	268	46.	26.6	6967.4
1	0540	69	32.	9.1	6962.6	*	1	1400	169	54.	49.4	6970.8	*	1	2220	269	46.	26.4	6967.3
1	0545	70	40.	16.5	6965.2	*	1	1405	170	54.	49.1	6970.7	*	1	2225	270	46.	26.1	6967.3
1	0550	71	46.	25.6	6967.2	*	1	1410	171	54.	48.9	6970.7	*	1	2230	271	46.	25.9	6967.2
1	0555	72	49.	34.8	6968.7	*	1	1415	172	54.	48.7	6970.7	*	1	2235	272	46.	25.6	6967.2
1	0600	73	52.	42.3	6970.0	*	1	1420	173	54.	48.5	6970.7	*	1	2240	273	46.	25.4	6967.1
1	0605	74	53.	47.5	6970.6	*	1	1425	174	54.	48.3	6970.7	*	1	2245	274	45.	25.2	6967.1
1	0610	75	54.	50.9	6970.9	*	1	1430	175	54.	48.1	6970.6	*	1	2250	275	45.	24.9	6967.1
1	0615	76	55.	53.1	6971.2	*	1	1435	176	54.	47.9	6970.6	*	1	2255	276	45.	24.7	6967.0
1	0620	77	55.	54.8	6971.4	*	1	1440	177	54.	47.7	6970.6	*	1	2300	277	45.	24.4	6967.0
1	0625	78	55.	56.0	6971.5	*	1	1445	178	53.	47.5	6970.6	*	1	2305	278	45.	24.2	6966.9
1	0630	79	56.	57.0	6971.6	*	1	1450	179	53.	47.2	6970.5	*	1	2310	279	45.	23.9	6966.9
1	0635	80	56.	57.7	6971.7	*	1	1455	180	53.	47.0	6970.5	*	1	2315	280	45.	23.7	6966.9
1	0640	81	56.	58.2	6971.7	*	1	1500	181	53.	46.8	6970.5	*	1	2320	281	45.	23.4	6966.8
1	0645	82	56.	58.7	6971.8	*	1	1505	182	53.	46.6	6970.5	*	1	2325	282	45.	23.2	6966.8
1	0650	83	56.	59.1	6971.8	*	1	1510	183	53.	46.4	6970.4	*	1	2330	283	45.	23.0	6966.8
1	0655	84	56.	59.5	6971.9	*	1	1515	184	53.	46.1	6970.4	*	1	2335	284	45.	22.8	6966.7
1	0700	85	56.	59.8	6971.9	*	1	1520	185	53.	45.9	6970.4	*	1	2340	285	44.	22.6	6966.7
1	0705	86	56.	60.0	6971.9	*	1	1525	186	53.	45.7	6970.4	*	1	2345	286	44.	22.4	6966.7

1	0710	87	56.	60.2	6971.9	*	1	1530	187	53.	45.4	6970.3	*	1	2350	287	44.	22.1	6966.6
1	0715	88	56.	60.3	6972.0	*	1	1535	188	53.	45.2	6970.3	*	1	2355	288	44.	21.8	6966.5
1	0720	89	56.	60.5	6972.0	*	1	1540	189	53.	45.0	6970.3	*	2	0000	289	44.	21.6	6966.5
1	0725	90	56.	60.6	6972.0	*	1	1545	190	53.	44.7	6970.3	*	2	0005	290	44.	21.3	6966.5
1	0730	91	56.	60.7	6972.0	*	1	1550	191	53.	44.5	6970.2	*	2	0010	291	44.	21.0	6966.4
1	0735	92	56.	60.8	6972.0	*	1	1555	192	53.	44.3	6970.2	*	2	0015	292	44.	20.7	6966.4
1	0740	93	56.	60.9	6972.0	*	1	1600	193	53.	44.0	6970.2	*	2	0020	293	44.	20.4	6966.3
1	0745	94	56.	61.1	6972.0	*	1	1605	194	53.	43.8	6970.2	*	2	0025	294	43.	20.1	6966.3
1	0750	95	56.	61.2	6972.1	*	1	1610	195	53.	43.6	6970.1	*	2	0030	295	43.	19.8	6966.2
1	0755	96	57.	61.3	6972.1	*	1	1615	196	53.	43.4	6970.1	*	2	0035	296	43.	19.5	6966.2
1	0800	97	57.	61.3	6972.1	*	1	1620	197	53.	43.1	6970.1	*	2	0040	297	43.	19.2	6966.1
1	0805	98	57.	61.3	6972.1	*	1	1625	198	52.	42.9	6970.1	*	2	0045	298	43.	18.9	6966.1
1	0810	99	57.	61.2	6972.1	*	1	1630	199	52.	42.7	6970.0	*	2	0050	299	43.	18.6	6966.0
1	0815	100	56.	61.1	6972.0	*	1	1635	200	52.	42.4	6970.0	*	2	0055	300	42.	18.3	6965.9

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)					
+ 57.	8.00		56.	42.	40.	40.	40.
		(INCHES)	.629	1.876	1.876	1.876	1.876
		(AC-FT)	28.	83.	83.	83.	83.

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)						
+ 61.	8.00		58.	35.	34.	34.	34.

PEAK STAGE	TIME		6-HR	MAXIMUM AVERAGE STAGE	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)						
+ 6972.06	8.00		6971.73	6967.13	6966.72	6966.72	6966.72

CUMULATIVE AREA = .83 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 * DF/LP *
 *

284 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER FOND

HYDROGRAPH ROUTING DATA

286 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

287 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2

288 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

289 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 3.68 CROSS-SECTIONAL AREA
 COQL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

290 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SFWID .00 SPILLWAY WIDTH
 COQW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	27.30	30.00	33.30	37.41	42.68	49.68	59.43	73.93	97.80
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	25.04	27.30	30.00	33.30	37.41	42.68	49.68	59.43	61.34	70.83
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00
STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	73.93	79.19	83.06	86.75	93.70	96.99	97.80	100.17		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HR	HRN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HR	HRN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HR	HRN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	25.	.0	6790.0	*	1	0820	101	85.	49.2	6811.1	*	1	1640	201	83.	11.8	6800.0				

1	0005	2	24.	-1	6790.0	*	1	0825	102	85.	49.2	6811.1	*	1	1645	202	83.	41.7	6809.6
1	0010	3	24.	-1	6790.0	*	1	0830	103	85.	49.2	6811.1	*	1	1650	203	83.	41.6	6809.7
1	0015	4	24.	-1	6790.0	*	1	0835	104	85.	49.2	6811.1	*	1	1655	204	83.	41.5	6809.7
1	0020	5	24.	-1	6790.0	*	1	0840	105	85.	49.2	6811.1	*	1	1700	205	82.	41.3	6809.7
1	0025	6	24.	-1	6790.0	*	1	0845	106	85.	49.2	6811.1	*	1	1705	206	82.	41.2	6809.7
1	0030	7	24.	-1	6790.0	*	1	0850	107	85.	49.1	6811.1	*	1	1710	207	82.	41.1	6809.7
1	0035	8	24.	-1	6790.0	*	1	0855	108	85.	49.1	6811.1	*	1	1715	208	82.	41.0	6809.6
1	0040	9	24.	-1	6790.0	*	1	0900	109	85.	49.1	6811.1	*	1	1720	209	82.	40.9	6809.6
1	0045	10	24.	-1	6790.0	*	1	0905	110	85.	49.1	6811.1	*	1	1725	210	82.	40.7	6809.6
1	0050	11	24.	-1	6790.0	*	1	0910	111	85.	49.0	6811.1	*	1	1730	211	82.	40.6	6809.6
1	0055	12	24.	-1	6790.0	*	1	0915	112	85.	49.0	6811.1	*	1	1735	212	82.	40.5	6809.5
1	0100	13	24.	-1	6790.0	*	1	0920	113	85.	49.0	6811.1	*	1	1740	213	82.	40.4	6809.5
1	0105	14	24.	-1	6790.0	*	1	0925	114	85.	49.0	6811.1	*	1	1745	214	82.	40.2	6809.5
1	0110	15	24.	-1	6790.0	*	1	0930	115	85.	48.9	6811.1	*	1	1750	215	82.	40.1	6809.5
1	0115	16	24.	-1	6790.0	*	1	0935	116	85.	48.9	6811.1	*	1	1755	216	82.	40.0	6809.4
1	0120	17	24.	-1	6790.0	*	1	0940	117	85.	48.9	6811.1	*	1	1800	217	82.	39.9	6809.4
1	0125	18	24.	-1	6790.0	*	1	0945	118	85.	48.9	6811.1	*	1	1805	218	82.	39.8	6809.4
1	0130	19	24.	-1	6790.0	*	1	0950	119	85.	48.8	6811.1	*	1	1810	219	82.	39.6	6809.4
1	0135	20	24.	-1	6790.0	*	1	0955	120	85.	48.8	6811.1	*	1	1815	220	82.	39.5	6809.3
1	0140	21	24.	-1	6790.0	*	1	1000	121	85.	48.8	6811.1	*	1	1820	221	82.	39.4	6809.3
1	0145	22	24.	-1	6790.0	*	1	1005	122	85.	48.7	6811.1	*	1	1825	222	82.	39.3	6809.3
1	0150	23	24.	-1	6790.0	*	1	1010	123	85.	48.7	6811.1	*	1	1830	223	82.	39.1	6809.3
1	0155	24	24.	-1	6790.0	*	1	1015	124	85.	48.6	6811.0	*	1	1835	224	82.	39.0	6809.2
1	0200	25	24.	-1	6790.0	*	1	1020	125	85.	48.6	6811.0	*	1	1840	225	82.	38.9	6809.2
1	0205	26	24.	-1	6790.0	*	1	1025	126	85.	48.5	6811.0	*	1	1845	226	81.	38.8	6809.2
1	0210	27	24.	-1	6790.0	*	1	1030	127	85.	48.5	6811.0	*	1	1850	227	81.	38.6	6809.2
1	0215	28	24.	-1	6790.0	*	1	1035	128	85.	48.4	6811.0	*	1	1855	228	81.	38.5	6809.1
1	0220	29	24.	-1	6790.0	*	1	1040	129	85.	48.3	6811.0	*	1	1900	229	81.	38.4	6809.1
1	0225	30	24.	-1	6790.0	*	1	1045	130	85.	48.3	6811.0	*	1	1905	230	81.	38.3	6809.1
1	0230	31	24.	-1	6790.0	*	1	1050	131	85.	48.2	6811.0	*	1	1910	231	81.	38.1	6809.1
1	0235	32	24.	-1	6790.0	*	1	1055	132	85.	48.1	6810.9	*	1	1915	232	81.	38.0	6809.0
1	0240	33	24.	-1	6790.0	*	1	1100	133	85.	48.1	6810.9	*	1	1920	233	81.	37.9	6809.0
1	0245	34	24.	-1	6790.0	*	1	1105	134	85.	48.0	6810.9	*	1	1925	234	81.	37.8	6809.0
1	0250	35	24.	-1	6790.0	*	1	1110	135	85.	47.9	6810.9	*	1	1930	235	81.	37.6	6808.9
1	0255	36	24.	-1	6790.0	*	1	1115	136	85.	47.8	6810.9	*	1	1935	236	81.	37.5	6808.9
1	0300	37	24.	-1	6790.0	*	1	1120	137	85.	47.8	6810.9	*	1	1940	237	81.	37.4	6808.9
1	0305	38	24.	-1	6790.0	*	1	1125	138	85.	47.7	6810.9	*	1	1945	238	81.	37.3	6808.9
1	0310	39	24.	-1	6790.0	*	1	1130	139	85.	47.6	6810.9	*	1	1950	239	81.	37.1	6808.8
1	0315	40	24.	-1	6790.0	*	1	1135	140	85.	47.6	6810.9	*	1	1955	240	81.	37.0	6808.8
1	0320	41	24.	-1	6790.0	*	1	1140	141	85.	47.5	6810.8	*	1	2000	241	81.	36.9	6808.8
1	0325	42	24.	-1	6790.0	*	1	1145	142	85.	47.4	6810.8	*	1	2005	242	81.	36.7	6808.8
1	0330	43	24.	-1	6790.0	*	1	1150	143	85.	47.3	6810.8	*	1	2010	243	81.	36.6	6808.7
1	0335	44	24.	-1	6790.0	*	1	1155	144	85.	47.3	6810.8	*	1	2015	244	81.	36.4	6808.7
1	0340	45	24.	-1	6790.0	*	1	1200	145	85.	47.2	6810.8	*	1	2020	245	80.	36.3	6808.7
1	0345	46	24.	-1	6790.0	*	1	1205	146	84.	47.1	6810.8	*	1	2025	246	80.	36.1	6808.6
1	0350	47	24.	-1	6790.0	*	1	1210	147	84.	47.1	6810.8	*	1	2030	247	80.	35.9	6808.6
1	0355	48	24.	-1	6790.0	*	1	1215	148	84.	47.0	6810.7	*	1	2035	248	80.	35.8	6808.6
1	0400	49	24.	-1	6790.0	*	1	1220	149	84.	46.9	6810.7	*	1	2040	249	80.	35.6	6808.5
1	0405	50	24.	-1	6790.0	*	1	1225	150	84.	46.8	6810.7	*	1	2045	250	80.	35.4	6808.5
1	0410	51	24.	-1	6790.0	*	1	1230	151	84.	46.8	6810.7	*	1	2050	251	80.	35.3	6808.5
1	0415	52	24.	-1	6790.0	*	1	1235	152	84.	46.7	6810.7	*	1	2055	252	80.	35.1	6808.4
1	0420	53	24.	-1	6790.0	*	1	1240	153	84.	46.6	6810.7	*	1	2100	253	80.	34.9	6808.4
1	0425	54	24.	-1	6790.0	*	1	1245	154	84.	46.6	6810.7	*	1	2105	254	80.	34.7	6808.4
1	0430	55	24.	-1	6790.0	*	1	1250	155	84.	46.5	6810.7	*	1	2110	255	80.	34.6	6808.3
1	0435	56	24.	-1	6790.0	*	1	1255	156	84.	46.4	6810.6	*	1	2115	256	80.	34.4	6808.3
1	0440	57	24.	-1	6790.0	*	1	1300	157	84.	46.3	6810.6	*	1	2120	257	80.	34.2	6808.3
1	0445	58	24.	-1	6790.0	*	1	1305	158	84.	46.3	6810.6	*	1	2125	258	80.	34.1	6808.2
1	0450	59	24.	-1	6790.0	*	1	1310	159	84.	46.2	6810.6	*	1	2130	259	80.	33.9	6808.2
1	0455	60	24.	-1	6790.0	*	1	1315	160	84.	46.1	6810.6	*	1	2135	260	79.	33.7	6808.1
1	0500	61	24.	-1	6790.0	*	1	1320	161	84.	46.0	6810.6	*	1	2140	261	79.	33.5	6808.1
1	0505	62	24.	-1	6790.0	*	1	1325	162	84.	45.9	6810.6	*	1	2145	262	79.	33.3	6808.1
1	0510	63	24.	-1	6790.0	*	1	1330	163	84.	45.8	6810.5	*	1	2150	263	79.	33.2	6808.0
1	0515	64	24.	-1	6790.0	*	1	1335	164	84.	45.8	6810.5	*	1	2155	264	79.	33.0	6808.0
1	0520	65	24.	-1	6790.0	*	1	1340	165	84.	45.7	6810.5	*	1	2200	265	79.	32.8	6808.0
1	0525	66	24.	-1	6790.0	*	1	1345	166	84.	45.6	6810.5	*	1	2205	266	79.	32.6	6807.9
1	0530	67	24.	-1	6790.0	*	1	1350	167	84.	45.5	6810.5	*	1	2210	267	79.	32.5	6807.9

1	0535	68	37.	1.6	6792.4	*	1	1355	168	84.	45.4	6810.5	*	1	2215	268	79.	32.3	6807.8
1	0540	69	55.	5.0	6797.7	*	1	1400	169	84.	45.3	6810.4	*	1	2220	269	79.	32.1	6807.8
1	0545	70	65.	10.6	6801.5	*	1	1405	170	84.	45.2	6810.4	*	1	2225	270	79.	31.9	6807.7
1	0550	71	71.	17.3	6804.0	*	1	1410	171	84.	45.1	6810.4	*	1	2230	271	79.	31.7	6807.7
1	0555	72	75.	24.1	6805.8	*	1	1415	172	84.	45.0	6810.4	*	1	2235	272	78.	31.6	6807.6
1	0600	73	78.	30.5	6807.4	*	1	1420	173	84.	44.9	6810.4	*	1	2240	273	78.	31.4	6807.6
1	0605	74	80.	35.5	6808.5	*	1	1425	174	84.	44.8	6810.4	*	1	2245	274	78.	31.2	6807.5
1	0610	75	82.	39.1	6809.2	*	1	1430	175	84.	44.7	6810.3	*	1	2250	275	78.	31.0	6807.5
1	0615	76	82.	41.2	6809.7	*	1	1435	176	84.	44.6	6810.3	*	1	2255	276	78.	30.9	6807.5
1	0620	77	83.	42.6	6810.0	*	1	1440	177	84.	44.5	6810.3	*	1	2300	277	78.	30.7	6807.4
1	0625	78	83.	43.7	6810.2	*	1	1445	178	84.	44.4	6810.3	*	1	2305	278	78.	30.5	6807.4
1	0630	79	84.	44.4	6810.3	*	1	1450	179	84.	44.3	6810.3	*	1	2310	279	78.	30.3	6807.3
1	0635	80	84.	45.1	6810.4	*	1	1455	180	84.	44.2	6810.3	*	1	2315	280	78.	30.1	6807.3
1	0640	81	84.	45.6	6810.5	*	1	1500	181	83.	44.1	6810.2	*	1	2320	281	78.	30.0	6807.2
1	0645	82	84.	46.0	6810.6	*	1	1505	182	83.	44.0	6810.2	*	1	2325	282	78.	29.8	6807.2
1	0650	83	84.	46.4	6810.6	*	1	1510	183	83.	43.9	6810.2	*	1	2330	283	77.	29.6	6807.1
1	0655	84	84.	46.7	6810.7	*	1	1515	184	83.	43.8	6810.2	*	1	2335	284	77.	29.5	6807.1
1	0700	85	84.	47.0	6810.7	*	1	1520	185	83.	43.7	6810.2	*	1	2340	285	77.	29.3	6807.1
1	0705	86	85.	47.2	6810.8	*	1	1525	186	83.	43.6	6810.1	*	1	2345	286	77.	29.1	6807.0
1	0710	87	85.	47.5	6810.8	*	1	1530	187	83.	43.5	6810.1	*	1	2350	287	77.	28.9	6807.0
1	0715	88	85.	47.7	6810.9	*	1	1535	188	83.	43.3	6810.1	*	1	2355	288	77.	28.8	6806.9
1	0720	89	85.	47.8	6810.9	*	1	1540	189	83.	43.2	6810.1	*	2	0000	289	77.	28.6	6806.9
1	0725	90	85.	48.0	6810.9	*	1	1545	190	83.	43.1	6810.1	*	2	0005	290	77.	28.4	6806.8
1	0730	91	85.	48.2	6811.0	*	1	1550	191	83.	43.0	6810.0	*	2	0010	291	77.	28.2	6806.8
1	0735	92	85.	48.3	6811.0	*	1	1555	192	83.	42.9	6810.0	*	2	0015	292	77.	28.0	6806.7
1	0740	93	85.	48.5	6811.0	*	1	1600	193	83.	42.8	6810.0	*	2	0020	293	76.	27.7	6806.7
1	0745	94	85.	48.6	6811.0	*	1	1605	194	83.	42.6	6810.0	*	2	0025	294	76.	27.5	6806.6
1	0750	95	85.	48.8	6811.1	*	1	1610	195	83.	42.5	6809.9	*	2	0030	295	76.	27.3	6806.6
1	0755	96	85.	48.9	6811.1	*	1	1615	196	83.	42.4	6809.9	*	2	0035	296	76.	27.1	6806.5
1	0800	97	85.	49.0	6811.1	*	1	1620	197	83.	42.3	6809.9	*	2	0040	297	76.	26.9	6806.5
1	0805	98	85.	49.1	6811.1	*	1	1625	198	83.	42.2	6809.9	*	2	0045	298	76.	26.7	6806.4
1	0810	99	85.	49.2	6811.1	*	1	1630	199	83.	42.0	6809.8	*	2	0050	299	76.	26.4	6806.3
1	0815	100	85.	49.2	6811.1	*	1	1635	200	83.	41.9	6809.8	*	2	0055	300	76.	26.2	6806.3

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(CFS)			
+	85.	85.	71.	69.	69.
		(INCHES)			
		(AC-FT)	.580	1.933	1.958
			42.	140.	142.
PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+	(AC-FT)				
+	49.	48.	33.	32.	32.
PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+	(FEET)				
+	6811.14	6810.96	6805.68	6805.10	6805.10

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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

+	2 COMBINED AT	DP-1EL	256.	5.75	76.	49.	47.	.91
+	HYDROGRAPH AT	SBEL-2	52.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	50.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	304.	5.75	82.	50.	48.	.94
+	HYDROGRAPH AT	SBEL-3	92.	5.75	10.	3.	3.	.03
+	ROUTED TO	DP-1EL	91.	5.75	10.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	394.	5.75	91.	53.	51.	.97
+	HYDROGRAPH AT	SBEL-4	72.	5.75	7.	2.	2.	.03
+	ROUTED TO	DP-1EL	70.	5.75	7.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	465.	5.75	98.	55.	53.	1.00
+	HYDROGRAPH AT	SBEL-5	91.	5.75	9.	3.	3.	.03
+	ROUTED TO	DP-1EL	87.	5.75	9.	3.	3.	.03
+	2 COMBINED AT	DP-1EL	552.	5.75	108.	58.	56.	1.03
+	HYDROGRAPH AT	SBEL-7	76.	5.75	8.	2.	2.	.03
+	ROUTED TO	DP-1EL	75.	5.75	8.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	627.	5.75	115.	60.	58.	1.06
+	ROUTED TO	DP-2EL	617.	5.92	119.	61.	59.	1.06
+	HYDROGRAPH AT	SBEL-8	51.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-2EL	51.	6.00	6.	2.	2.	.03
+	2 COMBINED AT	DP-2EL	665.	5.92	125.	63.	60.	1.09
+	HYDROGRAPH AT	SBEL-9	124.	5.75	13.	4.	4.	.07
+	ROUTED TO	DP-2EL	117.	5.83	13.	4.	4.	.07

+	2 COMBINED AT	DP-2EL	778.	5.92	138.	67.	64.	1.16		
+	HYDROGRAPH AT	SBEL10	78.	5.75	8.	2.	2.	.04		
+	2 COMBINED AT	DP-2EL	820.	5.92	145.	69.	67.	1.21		
+	HYDROGRAPH AT	SBEL11	123.	5.75	12.	4.	4.	.05		
+	ROUTED TO	DP-2EL	115.	5.92	14.	4.	4.	.05		
+	2 COMBINED AT	DP-2EL	935.	5.92	159.	73.	71.	1.25		
+	HYDROGRAPH AT	SBEL12	187.	5.83	20.	6.	6.	.11		
+	2 COMBINED AT	DP-2EL	1073.	5.92	178.	80.	77.	1.36		
+	ROUTED TO	DF/LP	85.	8.42	85.	71.	69.	1.36	6811.14	8.42
+	ROUTED TO	DP-1EC	85.	8.42	85.	71.	69.	1.36		
+	HYDROGRAPH AT	SBEC-1	30.	5.75	3.	1.	1.	.01		
+	HYDROGRAPH AT	SBEC-2	33.	5.75	3.	1.	1.	.03		
+	HYDROGRAPH AT	SBEC-3	67.	5.83	7.	2.	2.	.05		

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

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR UNDEVELOPED COTTONWOOD CREEK BASIN "C"									
3	ID	EAST OF FAIRFAX CREEK BASIN									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC30.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBCC-1									
21	KM	RUNOFF FROM SBCC-1									
22	BA	0.0568									
23	PR	1									
24	PW	1									
25	..	..							

10

```

25      PT      2
26      PW      1
27      LS      0      76.0
28      UD      0.39

29      KK      DP-1CC
30      KM      ROUTE SBCC-1 TO DP-1CC
31      RK      3400 0.0320 0.045 0 TRAP      B      10

32      KK      SBCC-2
33      KM      RUNOFF FROM SBCC-2
34      BA      0.0902
35      PR      1
36      PW      1
37      PT      2
38      PW      1
39      LS      0      76.0
40      UD      0.41

41      KK      DP-1CC
42      KM      COMBINE FLOWS AT DP-1CC
43      HC      2

44      KK      DP-2CC
45      KM      ROUTE DP-1CC TO DP-2CC
46      RK      4400 0.0340 0.045 0 TRAP      B      10

```

HEC-1 INPUT

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

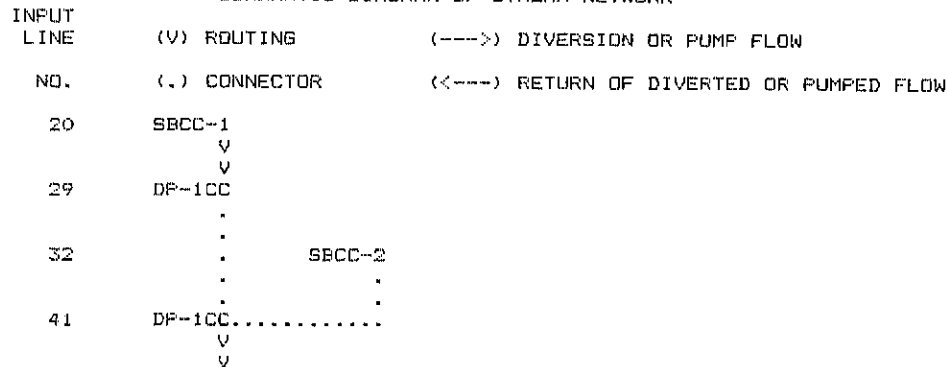
```

47      KK      SBCC-3
48      KM      RUNOFF FROM SBCC-3
49      BA      0.1316
50      PR      1
51      PW      1
52      PT      2
53      PW      1
54      LS      0      76.0
55      UD      0.45

56      KK      DP-2CC
57      KO      2
58      KM      COMBINE FLOWS AT DP-2CC
59      HC      2
60      KM      COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK
61      ZZ

```

SCHEMATIC DIAGRAM OF STREAM NETWORK



```

44 DP-2CC
   .
47 . SBCC-3
   .
56 DP-2CC.....

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

```

****
FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616
****

```

```

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR UNDEVELOPED COTTONWOOD CREEK BASIN "C"
EAST OF FAIRFAX CREEK BASIN
HEC1 (SCS) 100-YEAR RUNOFF (FC30.DAT)

```

```

6 IO OUTPUT CONTROL VARIABLES
    IPRNT      5 PRINT CONTROL
    IFLOT      1 PLOT CONTROL
    QSCAL      0. HYDROGRAPH PLOT SCALE

```

```

IT HYDROGRAPH TIME DATA
    NMIN      5 MINUTES IN COMPUTATION INTERVAL
    IDATE      1 0 STARTING DATE
    ITIME      0000 STARTING TIME
    NQ        300 NUMBER OF HYDROGRAPH ORDINATES
    NDDATE     2 0 ENDING DATE
    NDTIME     0055 ENDING TIME

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

```

ENGLISH UNITS

*** **

```

*****
* DP-2CC *
*****

```

```

57 KO OUTPUT CONTROL VARIABLES
    IPRNT      2 PRINT CONTROL
    IFLOT      1 PLOT CONTROL
    QSCAL      0. HYDROGRAPH PLOT SCALE
    COMBINE FLOWS AT DP-2CC
    COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK

```

```

59 HC HYDROGRAPH COMBINATION
    ICOMP      2 NUMBER OF HYDROGRAPHS TO COMBINE

```

HYDROGRAPH AT STATION DP-2CC

```

44 DP-2CC
   .
47 . SBCC-3
   .
56 DP-2CC.....

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1
      ****
      FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
      U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616
      ****

```

```

      FAIRFAX CREEK DRAINAGE BASIN
      HYDROLOGIC MODEL FOR UNDEVELOPED COTTONWOOD CREEK BASIN "C"
      EAST OF FAIRFAX CREEK BASIN
      HEC1 (SCS) 100-YEAR RUNOFF (FC30.DAT)

```

```

6 ID OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IFLOT      1 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
      NMIN      5 MINUTES IN COMPUTATION INTERVAL
      IDATE     1 0 STARTING DATE
      ITIME     0000 STARTING TIME
      NQ        300 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE    2 0 ENDING DATE
      NDTIME    0055 ENDING TIME

      COMPUTATION INTERVAL .08 HOURS
      TOTAL TIME BASE 24.92 HOURS

```

ENGLISH UNITS

*** **

```

*****
* DP-2CC *
*****

```

```

57 KD OUTPUT CONTROL VARIABLES
      IPRNT      2 PRINT CONTROL
      IFLOT      1 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
      COMBINE FLOWS AT DP-2CC
      COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK

59 HC HYDROGRAPH COMBINATION
      ICOMP      2 NUMBER OF HYDROGRAPHS TO COMBINE

```

HYDROGRAPH AT STATION DP-2CC

SUM UP 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	0.	*	1		0615	76	252.	*	1		1230	151	9.	*	1		1845	226	6.	*
1		0005	2	0.	*	1		0620	77	219.	*	1		1235	152	9.	*	1		1850	227	6.	*
1		0010	3	0.	*	1		0625	78	183.	*	1		1240	153	9.	*	1		1855	228	6.	*
1		0015	4	0.	*	1		0630	79	152.	*	1		1245	154	9.	*	1		1900	229	6.	*
1		0020	5	0.	*	1		0635	80	128.	*	1		1250	155	9.	*	1		1905	230	6.	*
1		0025	6	0.	*	1		0640	81	109.	*	1		1255	156	9.	*	1		1910	231	6.	*
1		0030	7	0.	*	1		0645	82	93.	*	1		1300	157	9.	*	1		1915	232	6.	*
1		0035	8	0.	*	1		0650	83	80.	*	1		1305	158	9.	*	1		1920	233	6.	*
1		0040	9	0.	*	1		0655	84	70.	*	1		1310	159	9.	*	1		1925	234	6.	*
1		0045	10	0.	*	1		0700	85	61.	*	1		1315	160	9.	*	1		1930	235	6.	*
1		0050	11	0.	*	1		0705	86	54.	*	1		1320	161	9.	*	1		1935	236	6.	*
1		0055	12	0.	*	1		0710	87	48.	*	1		1325	162	9.	*	1		1940	237	6.	*
1		0100	13	0.	*	1		0715	88	44.	*	1		1330	163	8.	*	1		1945	238	6.	*
1		0105	14	0.	*	1		0720	89	39.	*	1		1335	164	8.	*	1		1950	239	6.	*
1		0110	15	0.	*	1		0725	90	36.	*	1		1340	165	8.	*	1		1955	240	6.	*
1		0115	16	0.	*	1		0730	91	33.	*	1		1345	166	8.	*	1		2000	241	6.	*
1		0120	17	0.	*	1		0735	92	31.	*	1		1350	167	8.	*	1		2005	242	6.	*
1		0125	18	0.	*	1		0740	93	29.	*	1		1355	168	8.	*	1		2010	243	6.	*
1		0130	19	0.	*	1		0745	94	28.	*	1		1400	169	8.	*	1		2015	244	5.	*
1		0135	20	0.	*	1		0750	95	27.	*	1		1405	170	8.	*	1		2020	245	5.	*
1		0140	21	0.	*	1		0755	96	26.	*	1		1410	171	8.	*	1		2025	246	5.	*
1		0145	22	0.	*	1		0800	97	24.	*	1		1415	172	8.	*	1		2030	247	5.	*
1		0150	23	0.	*	1		0805	98	23.	*	1		1420	173	8.	*	1		2035	248	4.	*
1		0155	24	0.	*	1		0810	99	22.	*	1		1425	174	8.	*	1		2040	249	4.	*
1		0200	25	0.	*	1		0815	100	21.	*	1		1430	175	8.	*	1		2045	250	4.	*
1		0205	26	0.	*	1		0820	101	19.	*	1		1435	176	8.	*	1		2050	251	4.	*
1		0210	27	0.	*	1		0825	102	18.	*	1		1440	177	8.	*	1		2055	252	4.	*
1		0215	28	0.	*	1		0830	103	17.	*	1		1445	178	7.	*	1		2100	253	4.	*
1		0220	29	0.	*	1		0835	104	16.	*	1		1450	179	7.	*	1		2105	254	4.	*
1		0225	30	0.	*	1		0840	105	15.	*	1		1455	180	7.	*	1		2110	255	4.	*
1		0230	31	0.	*	1		0845	106	14.	*	1		1500	181	7.	*	1		2115	256	3.	*
1		0235	32	0.	*	1		0850	107	14.	*	1		1505	182	7.	*	1		2120	257	3.	*
1		0240	33	0.	*	1		0855	108	13.	*	1		1510	183	7.	*	1		2125	258	3.	*
1		0245	34	0.	*	1		0900	109	13.	*	1		1515	184	7.	*	1		2130	259	3.	*
1		0250	35	0.	*	1		0905	110	13.	*	1		1520	185	7.	*	1		2135	260	3.	*
1		0255	36	0.	*	1		0910	111	13.	*	1		1525	186	7.	*	1		2140	261	3.	*
1		0300	37	0.	*	1		0915	112	12.	*	1		1530	187	7.	*	1		2145	262	3.	*
1		0305	38	0.	*	1		0920	113	12.	*	1		1535	188	7.	*	1		2150	263	3.	*
1		0310	39	0.	*	1		0925	114	12.	*	1		1540	189	7.	*	1		2155	264	3.	*
1		0315	40	0.	*	1		0930	115	12.	*	1		1545	190	7.	*	1		2200	265	3.	*
1		0320	41	0.	*	1		0935	116	12.	*	1		1550	191	6.	*	1		2205	266	3.	*
1		0325	42	0.	*	1		0940	117	12.	*	1		1555	192	6.	*	1		2210	267	3.	*
1		0330	43	0.	*	1		0945	118	12.	*	1		1600	193	6.	*	1		2215	268	3.	*
1		0335	44	0.	*	1		0950	119	12.	*	1		1605	194	6.	*	1		2220	269	3.	*
1		0340	45	0.	*	1		0955	120	12.	*	1		1610	195	6.	*	1		2225	270	3.	*
1		0345	46	0.	*	1		1000	121	12.	*	1		1615	196	6.	*	1		2230	271	3.	*
1		0350	47	0.	*	1		1005	122	12.	*	1		1620	197	6.	*	1		2235	272	3.	*
1		0355	48	0.	*	1		1010	123	11.	*	1		1625	198	6.	*	1		2240	273	3.	*
1		0400	49	0.	*	1		1015	124	11.	*	1		1630	199	6.	*	1		2245	274	3.	*
1		0405	50	0.	*	1		1020	125	11.	*	1		1635	200	6.	*	1		2250	275	3.	*
1		0410	51	0.	*	1		1025	126	11.	*	1		1640	201	6.	*	1		2255	276	3.	*
1		0415	52	0.	*	1		1030	127	10.	*	1		1645	202	6.	*	1		2300	277	3.	*
1		0420	53	0.	*	1		1035	128	10.	*	1		1650	203	6.	*	1		2305	278	3.	*
1		0425	54	0.	*	1		1040	129	10.	*	1		1655	204	6.	*	1		2310	279	3.	*
1		0430	55	0.	*	1		1045	130	10.	*	1		1700	205	6.	*	1		2315	280	3.	*
1		0435	56	0.	*	1		1050	131	10.	*	1		1705	206	6.	*	1		2320	281	3.	*
1		0440	57	0.	*	1		1055	132	9.	*	1		1710	207	6.	*	1		2325	282	3.	*
1		0445	58	0.	*	1		1100	133	9.	*	1		1715	208	6.	*	1		2330	283	3.	*
1		0450	59	0.	*	1		1105	134	9.	*	1		1720	209	6.	*	1		2335	284	3.	*
1		0455	60	0.	*	1		1110	135	9.	*	1		1725	210	6.	*	1		2340	285	3.	*

1	0500	61	0.	*	1	1115	136	9.	*	1	1730	211	6.	*	1	2345	286	4.
1	0505	62	0.	*	1	1120	137	9.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	0.	*	1	1125	138	9.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	0.	*	1	1130	139	9.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	0.	*	1	1135	140	9.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	2.	*	1	1140	141	9.	*	1	1755	216	6.	*	2	0010	291	2.
1	0530	67	6.	*	1	1145	142	9.	*	1	1800	217	6.	*	2	0015	292	2.
1	0535	68	16.	*	1	1150	143	9.	*	1	1805	218	6.	*	2	0020	293	2.
1	0540	69	35.	*	1	1155	144	9.	*	1	1810	219	6.	*	2	0025	294	2.
1	0545	70	66.	*	1	1200	145	9.	*	1	1815	220	6.	*	2	0030	295	2.
1	0550	71	112.	*	1	1205	146	9.	*	1	1820	221	6.	*	2	0035	296	1.
1	0555	72	173.	*	1	1210	147	9.	*	1	1825	222	6.	*	2	0040	297	1.
1	0600	73	236.	*	1	1215	148	9.	*	1	1830	223	6.	*	2	0045	298	1.
1	0605	74	275.	*	1	1220	149	9.	*	1	1835	224	6.	*	2	0050	299	1.
1	0610	75	276.	*	1	1225	150	9.	*	1	1840	225	6.	*	2	0055	300	1.

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	MAXIMUM AVERAGE FLOW 24-HR (INCHES)	72-HR (AC-FT)	24.92-HR (CFS)
276.	6.17	48.	1.615	2.048	15.
		24.	30.	30.	30.
CUMULATIVE AREA =		.28 SQ MI			

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBCC-1	62.	6.00	10.	3.	3.	.06		
ROUTED TO	DP-1CC	61.	6.08	10.	3.	3.	.06		
HYDROGRAPH AT	SBCC-2	95.	6.00	16.	5.	5.	.09		
2 COMBINED AT	DP-1CC	154.	6.08	26.	8.	8.	.15		
ROUTED TO	DP-2CC	154.	6.17	25.	8.	8.	.15		
HYDROGRAPH AT	SBCC-3	130.	6.08	23.	7.	7.	.13		
2 COMBINED AT	DP-2CC	276.	6.17	48.	15.	15.	.28		

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

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) --FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

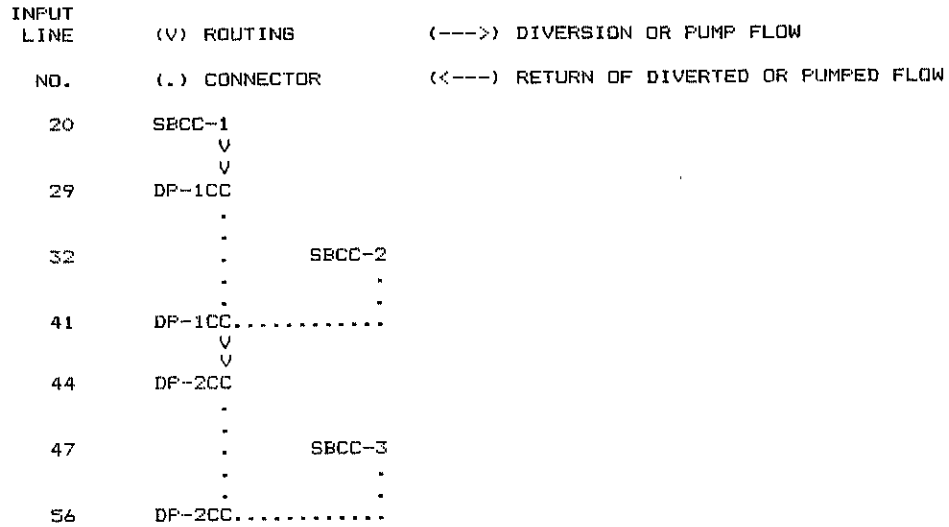
1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED COTTONWOOD CREEK BASIN "C"									
3	ID	EAST OF FAIRFAX CREEK BASIN									
4	ID	HEC1 (SCS) 100-YEAR RUNOFF (FC31.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	4.4								

11

1

SCHEMATIC DIAGRAM OF STREAM NETWORK



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR DEVELOPED COTTONWOOD CREEK BASIN "C"
 EAST OF FAIRFAX CREEK BASIN
 HEC1 (SCS) 100-YEAR RUNOFF (FC31.DAT)

6 IO

OUTPUT CONTROL VARIABLES

IPRINT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT

HYDROGRAPH TIME DATA

NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 * *
 56 KK * DP-2CC *
 * *

57 KD OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLDT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

58 KD OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLDT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 COMBINE FLOWS AT DP-2CC
 COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK

60 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION DP-2CC
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	96.	*	1		1230	151	9.	*	1		1845	226	6.
1		0005	2	0.	*	1		0620	77	78.	*	1		1235	152	10.	*	1		1850	227	6.
1		0010	3	0.	*	1		0625	78	64.	*	1		1240	153	9.	*	1		1855	228	6.
1		0015	4	0.	*	1		0630	79	54.	*	1		1245	154	9.	*	1		1900	229	6.
1		0020	5	0.	*	1		0635	80	44.	*	1		1250	155	9.	*	1		1905	230	6.
1		0025	6	0.	*	1		0640	81	41.	*	1		1255	156	9.	*	1		1910	231	6.
1		0030	7	0.	*	1		0645	82	38.	*	1		1300	157	9.	*	1		1915	232	6.
1		0035	8	0.	*	1		0650	83	37.	*	1		1305	158	9.	*	1		1920	233	6.
1		0040	9	0.	*	1		0655	84	34.	*	1		1310	159	9.	*	1		1925	234	6.
1		0045	10	0.	*	1		0700	85	31.	*	1		1315	160	8.	*	1		1930	235	6.
1		0050	11	0.	*	1		0705	86	28.	*	1		1320	161	8.	*	1		1935	236	6.
1		0055	12	0.	*	1		0710	87	27.	*	1		1325	162	8.	*	1		1940	237	6.
1		0100	13	0.	*	1		0715	88	26.	*	1		1330	163	8.	*	1		1945	238	6.
1		0105	14	0.	*	1		0720	89	25.	*	1		1335	164	8.	*	1		1950	239	6.
1		0110	15	0.	*	1		0725	90	25.	*	1		1340	165	8.	*	1		1955	240	6.
1		0115	16	0.	*	1		0730	91	24.	*	1		1345	166	8.	*	1		2000	241	5.
1		0120	17	0.	*	1		0735	92	24.	*	1		1350	167	8.	*	1		2005	242	5.
1		0125	18	0.	*	1		0740	93	24.	*	1		1355	168	8.	*	1		2010	243	4.
1		0130	19	0.	*	1		0745	94	24.	*	1		1400	169	8.	*	1		2015	244	4.
1		0135	20	0.	*	1		0750	95	24.	*	1		1405	170	8.	*	1		2020	245	4.
1		0140	21	0.	*	1		0755	96	22.	*	1		1410	171	8.	*	1		2025	246	4.
1		0145	22	0.	*	1		0800	97	19.	*	1		1415	172	8.	*	1		2030	247	3.
1		0150	23	0.	*	1		0805	98	17.	*	1		1420	173	8.	*	1		2035	248	3.
1		0155	24	0.	*	1		0810	99	15.	*	1		1425	174	8.	*	1		2040	249	3.
1		0200	25	0.	*	1		0815	100	14.	*	1		1430	175	8.	*	1		2045	250	3.
1		0205	26	0.	*	1		0820	101	13.	*	1		1435	176	8.	*	1		2050	251	3.
1		0210	27	0.	*	1		0825	102	13.	*	1		1440	177	8.	*	1		2055	252	3.
1		0215	28	0.	*	1		0830	103	13.	*	1		1445	178	8.	*	1		2100	253	3.
1		0220	29	0.	*	1		0835	104	12.	*	1		1450	179	8.	*	1		2105	254	3.
1		0225	30	0.	*	1		0840	105	12.	*	1		1455	180	8.	*	1		2110	255	3.

1	0230	31	0.	*	1	0845	106	12.	*	1	1500	181	7.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	12.	*	1	1505	182	7.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	12.	*	1	1510	183	7.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	12.	*	1	1515	184	7.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	12.	*	1	1520	185	7.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	12.	*	1	1525	186	6.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	12.	*	1	1530	187	6.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	12.	*	1	1535	188	6.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	12.	*	1	1540	189	6.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	12.	*	1	1545	190	6.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	12.	*	1	1550	191	6.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	12.	*	1	1555	192	6.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	12.	*	1	1600	193	6.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	12.	*	1	1605	194	6.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	12.	*	1	1610	195	6.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	11.	*	1	1615	196	6.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	11.	*	1	1620	197	6.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	10.	*	1	1625	198	6.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	10.	*	1	1630	199	6.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	10.	*	1	1635	200	6.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	10.	*	1	1640	201	6.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	9.	*	1	1645	202	6.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	9.	*	1	1650	203	6.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	9.	*	1	1655	204	6.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	9.	*	1	1700	205	6.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	9.	*	1	1705	206	6.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	9.	*	1	1710	207	6.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	9.	*	1	1715	208	6.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	9.	*	1	1720	209	6.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	9.	*	1	1725	210	6.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	9.	*	1	1730	211	6.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	9.	*	1	1735	212	6.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	9.	*	1	1740	213	6.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	9.	*	1	1745	214	6.	*	2	0000	289	0.
1	0520	65	4.	*	1	1135	140	9.	*	1	1750	215	6.	*	2	0005	290	0.
1	0525	66	25.	*	1	1140	141	9.	*	1	1755	216	6.	*	2	0010	291	0.
1	0530	67	82.	*	1	1145	142	9.	*	1	1800	217	6.	*	2	0015	292	0.
1	0535	68	198.	*	1	1150	143	9.	*	1	1805	218	6.	*	2	0020	293	0.
1	0540	69	341.	*	1	1155	144	9.	*	1	1810	219	6.	*	2	0025	294	0.
1	0545	70	428.	*	1	1200	145	9.	*	1	1815	220	6.	*	2	0030	295	0.
1	0550	71	486.	*	1	1205	146	9.	*	1	1820	221	6.	*	2	0035	296	0.
1	0555	72	447.	*	1	1210	147	9.	*	1	1825	222	6.	*	2	0040	297	0.
1	0600	73	331.	*	1	1215	148	9.	*	1	1830	223	6.	*	2	0045	298	0.
1	0605	74	217.	*	1	1220	149	9.	*	1	1835	224	6.	*	2	0050	299	0.
1	0610	75	134.	*	1	1225	150	9.	*	1	1840	225	6.	*	2	0055	300	0.

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
486.	5.83	55.	17.	16.	16.
		(INCHES)	2.269	2.269	2.269
		(AC-FT)	27.	34.	34.
CUMULATIVE AREA =		.28 SQ MI			

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX FLOW
				6-HOUR	24-HOUR	72-HOUR			

+	HYDROGRAPH AT	SBCC-1	99.	5.83	10.	3.	3.	.06
+	ROUTED TO	DP-1CC	98.	5.83	11.	3.	3.	.06
+	HYDROGRAPH AT	SBCC-2	156.	5.83	16.	5.	5.	.09
+	2 COMBINED AT	DP-1CC	254.	5.83	27.	8.	8.	.15
+	ROUTED TO	DP-2CC	247.	5.92	28.	9.	8.	.15
+	HYDROGRAPH AT	SBCC-3	249.	5.83	27.	8.	8.	.13
+	2 COMBINED AT	DP-2CC	486.	5.83	53.	17.	16.	.28

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

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED FAIRFAX CREEK BASIN									
3	ID	HEC1 (SCS) 10-YEAR RUNOFF (FCS2.DAT)									
	*DIAGRAM										
4	IT	5	0	0	300						
5	IO	5	1								
6	PG	2	3.0								
7	PG	1	0								
8	IN	15									
9	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
10	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
11	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
12	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
13	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
14	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
15	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
16	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
17	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
18	PC	.9938	.9950	.9963	.9975	1.0000					
19	KK	SBEU-1									
20	KM	RUNOFF FROM SBEU-1									

24

74 PW 1
 75 PT 2
 76 PW 1
 77 LS 0 69.0
 78 UD 0.16

79 KK DP-1EU
 80 KM COMBINE FLOWS AT DP-1EU
 81 HC 2

82 KK SBEU-6
 83 KM RUNOFF FROM SBEU-6
 84 BA 0.1064
 85 PR 1
 86 PW 1
 87 PT 2
 88 PW 1
 89 LS 0 77.1
 90 UD 0.20

91 KK DP-1EU
 92 KM ROUTE SBEU-6 TO DP-1EU
 93 RK 1000 0.0400 0.016 0 TRAP 8 10
 HEC-1 INPUT

1

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

94 KK DP-1EU
 95 KM COMBINE FLOWS AT DP-1EU
 96 HC 2

97 KK DP-1EL
 98 KM ROUTE DP-1EU TO DP-1EL
 99 RK 2000 0.0300 0.016 0 TRAP 8 10

100 KK SBEL-6
 101 KM RUNOFF FROM SBEL-6
 102 BA 0.0597
 103 PR 1
 104 PW 1
 105 PT 2
 106 PW 1
 107 LS 0 92.0
 108 UD 0.13

109 KK DP-1EL
 110 KM COMBINE FLOWS AT DP-1EL
 111 HC 2

112 KK SBEL-1
 113 KM RUNOFF FROM SBEL-1
 114 BA 0.0282
 115 PR 1
 116 PW 1
 117 PT 2
 118 PW 1
 119 LS 0 75.0
 120 UD 0.14

121 KK DP-1EL
 122 KM ROUTE SBEL-1 TO DP-1EL
 123 RK 1600 0.0380 0.016 0 TRAP 8 10

124 KK DP-1EL
 125 KM COMBINE FLOWS AT DP-1EL

126 HC 2
 127 KK SBEL-2
 128 KM RUNOFF FROM SBEL-2
 129 BA 0.0251
 130 PR 1
 131 PW 1
 132 PT 2
 133 PW 1
 134 LS 0 80.2
 135 UD 0.13

HEC-1 INPUT

1

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

136 KK DP-1EL
 137 KM ROUTE SBEL-2 TO DP-1EL
 138 RK 2000 0.0400 0.016 0 TRAP 8 10

 139 KK DP-1EL
 140 KM COMBINE FLOWS AT DP-1EL
 141 HC 2

 142 KK SBEL-3
 143 KM RUNOFF FROM SBEL-3
 144 BA 0.0320
 145 PR 1
 146 PW 1
 147 PT 2
 148 PW 1
 149 LS 0 90.0
 150 UD 0.12

 151 KK DP-1EL
 152 KM ROUTE SBEL-3 TO DP-1EL
 153 RK 1000 0.0500 0.016 0 TRAP 8 10

 154 KK DP-1EL
 155 KM COMBINE FLOWS AT DP-1EL
 156 HC 2

 157 KK SBEL-4
 158 KM RUNOFF FROM SBEL-4
 159 BA 0.0289
 160 PR 1
 161 PW 1
 162 PT 2
 163 PW 1
 164 LS 0 85.0
 165 UD 0.12

 166 KK DP-1EL
 167 KM ROUTE SBEL-4 TO DP-1EL
 168 RK 1000 0.0500 0.016 0 TRAP 8 10

 169 KK DP-1EL
 170 KM COMBINE FLOWS AT DP-1EL
 171 HC 2

 172 KK SBEL-5
 173 KM RUNOFF FROM SBEL-5
 174 BA 0.0334
 175 PR 1
 176 PW 1
 177 PT 2

178 PW 1
 179 LS 0 88.0
 180 UD 0.12

HEC-1 INPUT

1

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

181 KK DP-1EL
 182 KM ROUTE SBEL-5 TO DP-1EL
 183 RK 2200 0.0360 0.016 0 TRAP B 10

184 KK DP-1EL
 185 KM COMBINE FLOWS AT DP-1EL
 186 HC 2

187 KK SBEL-7
 188 KM RUNOFF FROM SBEL-7
 189 BA 0.0294
 190 PR 1
 191 PW 1
 192 PT 2
 193 PW 1
 194 LS 0 86.1
 195 UD 0.12

196 KK DP-1EL
 197 KM ROUTE SBEL-7 TO DP-1EL
 198 RK 700 0.0710 0.016 0 TRAP B 10

199 KK DP-1EL
 200 KM COMBINE FLOWS AT DP-1EL
 201 HC 2

202 KK DP-2EL
 203 KM ROUTE DP-1EL TO DP-2EL
 204 RK 3900 0.0240 0.045 0 TRAP 10 3

205 KK SBEL-8
 206 KM RUNOFF FROM SBEL-8
 207 BA 0.0302
 208 PR 1
 209 PW 1
 210 PT 2
 211 PW 1
 212 LS 0 75.0
 213 UD 0.13

214 KK DP-2EL
 215 KM ROUTE SBEL-8 TO DP-2EL
 216 RK 2900 0.0250 0.045 0 TRAP 10 3

217 KK DP-2EL
 218 KM COMBINE FLOWS AT DP-2EL
 219 HC 2

220 KK SBEL-9
 221 KM RUNOFF FROM SBEL-9
 222 BA 0.0694
 223 PR 1
 224 PW 1
 225 PT 2

HEC-1 INPUT

1

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

226	PW	1								
227	LS	0	77.1							
228	UD	0.14								
229	KK	DP-2EL								
230	KM	ROUTE SBEL-9 TO DP-2EL								
231	RK	1300	0.0180	0.045	0	TRAP	10		3	
232	KK	DP-2EL								
233	KM	COMBINE FLOWS AT DP-2EL								
234	HC	2								
235	KK	SBEL10								
236	KM	RUNOFF FROM SBEL-10								
237	BA	0.0434								
238	FR	1								
239	PW	1								
240	PT	2								
241	PW	1								
242	LS	0	76.0							
243	UD	0.12								
244	KK	DP-2EL								
245	KM	COMBINE FLOWS AT DP-2EL								
246	HC	2								
247	KK	SBEL11								
248	KM	RUNOFF FROM SBEL-11								
249	BA	0.0494								
250	FR	1								
251	PW	1								
252	PT	2								
253	PW	1								
254	LS	0	84.9							
255	UD	0.12								
256	KK	DP-2EL								
257	KM	ROUTE SBEL-11 TO DP-2EL								
258	RK	2900	0.0250	0.045	0	TRAP	10		3	
259	KK	DP-2EL								
260	KM	COMBINE FLOWS AT DP-2EL								
261	HC	2								
262	KK	SBEL12								
263	KM	RUNOFF FROM SBEL-12								
264	BA	0.1063								
265	FR	1								
266	PW	1								
267	PT	2								
268	PW	1								
269	LS	0	77.4							
270	UD	0.16								

HEC-1 INPUT

PAGE 7

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

271	KK	DP-2EL								
272	KM	COMBINE FLOWS AT DP-2EL								
273	HC	2								
274	KK	DP-1EC								
275	KM	ROUTE DP-2EL TO DP-1EC								
276	RK	350	0.0460	0.045	0	TRAP	10		3	

277 KK SBEC-1
 278 KM RUNOFF FROM SBEC-1
 279 BA 0.0138
 280 PR 1
 281 PW 1
 282 PT 2
 283 PW 1
 284 LS 0 80.0
 285 UD 0.11

 286 KK DP-1EC
 287 KM ROUTE SBEC-1 TO DP-1EC
 288 RK 1100 0.0180 0.016 0 TRAP 8 10

 289 KK DP-1EC
 290 KM COMBINE FLOWS AT DP-1EC
 291 HC 2

 292 KK SBEC-2
 293 KM RUNOFF FROM BASIN SBEC-2
 294 BA 0.0263
 295 PR 1
 296 PW 1
 297 PT 2
 298 PW 1
 299 LS 0 69.0
 300 UD 0.13

 301 KK DP-1EC
 302 KM COMBINE FLOWS AT DP-1EC
 303 HC 2

 304 KK SBEC-3
 305 KM RUNOFF FROM SBEC-3
 306 BA 0.0470
 307 PR 1
 308 PW 1
 309 PT 2
 310 PW 1
 311 LS 0 72.0
 312 UD 0.15

HEC-1 INPUT

PAGE 8

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

313 KK DP-1EC
 314 KO 2
 315 KM COMBINE FLOWS AT DP-1EC
 316 HC 2
 317 KM FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK
 318 ZZ

1
 SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW
 19 SBEC-1
 V
 V
 28 DP-1EC
 .
 .
 31 SBEC-2

40	DP-1EU.....	.
	.	.
43	.	SBEU-3
	.	V
	.	V
52	.	DP-1EU
	.	.
55	DP-1EU.....	.
	.	.
58	.	SBEU-4
	.	.
67	DP-1EU.....	.
	.	.
70	.	SBEU-5
	.	.
79	DP-1EU.....	.
	.	.
82	.	SBEU-6
	.	V
	.	V
91	.	DP-1EU
	.	.
94	DP-1EU.....	.
	V	.
	V	.
97	DP-1EL	.
	.	.
100	.	SBEL-6
	.	.
109	DP-1EL.....	.
	.	.
112	.	SBEL-1
	.	V
	.	V
121	.	DP-1EL
	.	.
124	DP-1EL.....	.
	.	.
127	.	SBEL-2
	.	V
	.	V
136	.	DP-1EL
	.	.
139	DP-1EL.....	.
	.	.
142	.	SBEL-3
	.	V
	.	V
151	.	DP-1EL

154	DP-1EL.....	.
	.	.
157		SBEL-4
	.	V
	.	V
166		DP-1EL
	.	.
169	DP-1EL.....	.
	.	.
172		SBEL-5
	.	V
	.	V
181		DP-1EL
	.	.
184	DP-1EL.....	.
	.	.
187		SBEL-7
	.	V
	.	V
196		DP-1EL
	.	.
199	DP-1EL.....	.
	V	.
	V	.
202	DP-2EL	.
	.	.
205		SBEL-8
	.	V
	.	V
214		DP-2EL
	.	.
217	DP-2EL.....	.
	.	.
220		SBEL-9
	.	V
	.	V
229		DP-2EL
	.	.
232	DP-2EL.....	.
	.	.
235		SBEL10
	.	.
244	DP-2EL.....	.
	.	.
247		SBEL11
	.	V
	.	V
256		DP-2EL
	.	.
259	DP-2EL.....	.

```

262      .      SBEL12
      .      .
271      DP-2EL.....
      .      .
      .      .
      .      .
274      DP-1EC
      .      .
      .      .
277      .      SBEC-1
      .      .
      .      .
      .      .
286      .      DP-1EC
      .      .
      .      .
289      DP-1EC.....
      .      .
      .      .
292      .      SBEC-2
      .      .
      .      .
301      DP-1EC.....
      .      .
      .      .
304      .      SBEC-3
      .      .
      .      .
313      DP-1EC.....

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR DEVELOPED FAIRFAX CREEK BASIN
 HEC1 (SCS) 10-YEAR RUNOFF (FCS2.DAT)

5 IO OUTPUT CONTROL VARIABLES
 IFRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 * *
 313 KK * DF-1EC *
 * *

314 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 COMBINE FLOWS AT DF-1EC
 FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

316 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION DF-1EC
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	394.	*	1		1230	151	30.	*	1		1845	226	20.
1		0005	2	0.	*	1		0620	77	306.	*	1		1235	152	30.	*	1		1850	227	20.
1		0010	3	0.	*	1		0625	78	248.	*	1		1240	153	30.	*	1		1855	228	20.
1		0015	4	0.	*	1		0630	79	206.	*	1		1245	154	30.	*	1		1900	229	20.
1		0020	5	0.	*	1		0635	80	175.	*	1		1250	155	30.	*	1		1905	230	20.
1		0025	6	0.	*	1		0640	81	153.	*	1		1255	156	29.	*	1		1910	231	20.
1		0030	7	0.	*	1		0645	82	137.	*	1		1300	157	29.	*	1		1915	232	20.
1		0035	8	0.	*	1		0650	83	126.	*	1		1305	158	29.	*	1		1920	233	20.
1		0040	9	0.	*	1		0655	84	116.	*	1		1310	159	28.	*	1		1925	234	20.
1		0045	10	0.	*	1		0700	85	107.	*	1		1315	160	28.	*	1		1930	235	20.
1		0050	11	0.	*	1		0705	86	99.	*	1		1320	161	27.	*	1		1935	236	20.
1		0055	12	0.	*	1		0710	87	92.	*	1		1325	162	27.	*	1		1940	237	20.
1		0100	13	0.	*	1		0715	88	86.	*	1		1330	163	27.	*	1		1945	238	20.
1		0105	14	0.	*	1		0720	89	82.	*	1		1335	164	26.	*	1		1950	239	20.
1		0110	15	0.	*	1		0725	90	79.	*	1		1340	165	26.	*	1		1955	240	20.
1		0115	16	0.	*	1		0730	91	77.	*	1		1345	166	26.	*	1		2000	241	19.
1		0120	17	0.	*	1		0735	92	76.	*	1		1350	167	26.	*	1		2005	242	18.
1		0125	18	0.	*	1		0740	93	76.	*	1		1355	168	26.	*	1		2010	243	17.
1		0130	19	0.	*	1		0745	94	75.	*	1		1400	169	26.	*	1		2015	244	16.
1		0135	20	0.	*	1		0750	95	75.	*	1		1405	170	25.	*	1		2020	245	15.
1		0140	21	0.	*	1		0755	96	72.	*	1		1410	171	25.	*	1		2025	246	14.
1		0145	22	0.	*	1		0800	97	68.	*	1		1415	172	25.	*	1		2030	247	13.
1		0150	23	0.	*	1		0805	98	65.	*	1		1420	173	25.	*	1		2035	248	12.
1		0155	24	0.	*	1		0810	99	57.	*	1		1425	174	24.	*	1		2040	249	12.
1		0200	25	0.	*	1		0815	100	52.	*	1		1430	175	24.	*	1		2045	250	11.
1		0205	26	0.	*	1		0820	101	48.	*	1		1435	176	24.	*	1		2050	251	11.
1		0210	27	0.	*	1		0825	102	45.	*	1		1440	177	24.	*	1		2055	252	11.
1		0215	28	0.	*	1		0830	103	43.	*	1		1445	178	24.	*	1		2100	253	11.
1		0220	29	0.	*	1		0835	104	41.	*	1		1450	179	24.	*	1		2105	254	11.
1		0225	30	0.	*	1		0840	105	40.	*	1		1455	180	24.	*	1		2110	255	10.
1		0230	31	0.	*	1		0845	106	39.	*	1		1500	181	23.	*	1		2115	256	10.
1		0235	32	0.	*	1		0850	107	39.	*	1		1505	182	23.	*	1		2120	257	10.
1		0240	33	0.	*	1		0855	108	39.	*	1		1510	183	23.	*	1		2125	258	10.
1		0245	34	0.	*	1		0900	109	38.	*	1		1515	184	22.	*	1		2130	259	10.
1		0250	35	0.	*	1		0905	110	38.	*	1		1520	185	22.	*	1		2135	260	10.
1		0255	36	0.	*	1		0910	111	38.	*	1		1525	186	21.	*	1		2140	261	10.
1		0300	37	0.	*	1		0915	112	38.	*	1		1530	187	21.	*	1		2145	262	10.
1		0305	38	0.	*	1		0920	113	38.	*	1		1535	188	21.	*	1		2150	263	10.
1		0310	39	0.	*	1		0925	114	38.	*	1		1540	189	21.	*	1		2155	264	10.
1		0315	40	0.	*	1		0930	115	38.	*	1		1545	190	20.	*	1		2200	265	10.
1		0320	41	0.	*	1		0935	116	38.	*	1		1550	191	20.	*	1		2205	266	10.
1		0325	42	0.	*	1		0940	117	38.	*	1		1555	192	20.	*	1		2210	267	10.
1		0330	43	0.	*	1		0945	118	39.	*	1		1600	193	20.	*	1		2215	268	10.
1		0335	44	0.	*	1		0950	119	38.	*	1		1605	194	20.	*	1		2220	269	10.
1		0340	45	0.	*	1		0955	120	39.	*	1		1610	195	20.	*	1		2225	270	10.
1		0345	46	0.	*	1		1000	121	37.	*	1		1615	196	20.	*	1		2230	271	10.
1		0350	47	0.	*	1		1005	122	36.	*	1		1620	197	20.	*	1		2235	272	10.
1		0355	48	0.	*	1		1010	123	35.	*	1		1625	198	20.	*	1		2240	273	10.
1		0400	49	0.	*	1		1015	124	33.	*	1		1630	199	20.	*	1		2245	274	10.
1		0405	50	0.	*	1		1020	125	32.	*	1		1635	200	20.	*	1		2250	275	10.
1		0410	51	0.	*	1		1025	126	31.	*	1		1640	201	20.	*	1		2255	276	10.
1		0415	52	0.	*	1		1030	127	31.	*	1		1645	202	20.	*	1		2300	277	10.
1		0420	53	0.	*	1		1035	128	30.	*	1		1650	203	20.	*	1		2305	278	10.
1		0425	54	0.	*	1		1040	129	30.	*	1		1655	204	20.	*	1		2310	279	10.
1		0430	55	0.	*	1		1045	130	30.	*	1		1700	205	20.	*	1		2315	280	10.
1		0435	56	0.	*	1		1050	131	29.	*	1		1705	206	20.	*	1		2320	281	10.
1		0440	57	0.	*	1		1055	132	29.	*	1		1710	207	20.	*	1		2325	282	11.
1		0445	58	0.	*	1		1100	133	29.	*	1		1715	208	20.	*	1		2330	283	12.
1		0450	59	0.	*	1		1105	134	29.	*	1		1720	209	20.	*	1		2335	284	12.
1		0455	60	0.	*	1		1110	135	29.	*	1		1725	210	20.	*	1		2340	285	12.
1		0500	61	0.	*	1		1115	136	29.	*	1		1730	211	20.	*	1		2345	286	12.
1		0505	62	0.	*	1		1120	137	29.	*	1		1735	212	20.	*	1		2350	287	12.

+		DP-1EU	643.	5.83	74.	23.	23.	.72
+	HYDROGRAPH AT	SBEU-6	84.	5.83	10.	3.	3.	.11
+	ROUTED TO	DP-1EU	80.	5.83	10.	3.	3.	.11
+	2 COMBINED AT	DP-1EU	724.	5.83	83.	27.	26.	.83
+	ROUTED TO	DP-1EL	704.	5.92	83.	27.	26.	.83
+	HYDROGRAPH AT	SBEL-6	112.	5.75	12.	3.	3.	.06
+	2 COMBINED AT	DP-1EL	777.	5.83	95.	30.	29.	.89
+	HYDROGRAPH AT	SBEL-1	22.	5.83	2.	1.	1.	.03
+	ROUTED TO	DP-1EL	21.	5.83	2.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	798.	5.83	97.	31.	30.	.91
+	HYDROGRAPH AT	SBEL-2	27.	5.75	3.	1.	1.	.03
+	ROUTED TO	DP-1EL	26.	5.83	3.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	825.	5.83	100.	32.	30.	.94
+	HYDROGRAPH AT	SBEL-3	56.	5.75	6.	2.	2.	.03
+	ROUTED TO	DP-1EL	55.	5.75	6.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	875.	5.83	105.	33.	32.	.97
+	HYDROGRAPH AT	SBEL-4	41.	5.75	4.	1.	1.	.03
+	ROUTED TO	DP-1EL	39.	5.75	4.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	913.	5.83	109.	35.	33.	1.00
+	HYDROGRAPH AT	SBEL-5	54.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	52.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	964.	5.83	115.	36.	35.	1.03
+	HYDROGRAPH AT							

+		SBEL-7	44.	5.75	4.	1.	1.	.03
+	ROUTED TO	DP-1EL	43.	5.75	4.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	1004.	5.83	119.	38.	36.	1.06
+	ROUTED TO	DP-2EL	1000.	5.92	122.	38.	37.	1.06
+	HYDROGRAPH AT	SBEL-8	23.	5.83	2.	1.	1.	.03
+	ROUTED TO	DP-2EL	23.	5.92	2.	1.	1.	.03
+	2 COMBINED AT	DP-2EL	1023.	5.92	124.	39.	38.	1.09
+	HYDROGRAPH AT	SBEL-9	61.	5.83	6.	2.	2.	.07
+	ROUTED TO	DP-2EL	59.	5.83	6.	2.	2.	.07
+	2 COMBINED AT	DP-2EL	1080.	5.92	130.	41.	40.	1.16
+	HYDROGRAPH AT	SBEL10	37.	5.75	4.	1.	1.	.04
+	2 COMBINED AT	DP-2EL	1101.	5.92	134.	42.	41.	1.21
+	HYDROGRAPH AT	SBEL11	69.	5.75	7.	2.	2.	.05
+	ROUTED TO	DP-2EL	65.	5.92	7.	2.	2.	.05
+	2 COMBINED AT	DP-2EL	1167.	5.92	141.	45.	43.	1.25
+	HYDROGRAPH AT	SBEL12	93.	5.83	10.	3.	3.	.11
+	2 COMBINED AT	DP-2EL	1237.	5.92	151.	48.	46.	1.36
+	ROUTED TO	DP-1EC	1234.	5.92	151.	48.	46.	1.36
+	HYDRUGRAPH AT	SBEC-1	16.	5.75	1.	0.	0.	.01
+	ROUTED TO	DP-1EC	15.	5.83	1.	0.	0.	.01
+	2 COMBINED AT	DP-1EC	1246.	5.92	152.	48.	46.	1.37
+	HYDROGRAPH AT	SBEC-2	14.	5.83	1.	0.	0.	.03
+	2 COMBINED AT							

+		DP-1EC	1255.	5.92	154.	49.	47.	1.40
	HYDROGRAPH AT							
+		SBEC-3	30.	5.83	3.	1.	1.	.05
	2 COMBINED AT							
+		DP-1EC	1276.	5.92	157.	50.	48.	1.45

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

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR UNDEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 10-YEAR RUNOFF (FC53.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	3.0								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	FR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	76.0								
28	UD	0.33									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.045	0	TRAP	B	10			
32	KK	SBEU-2									

86 PR 1
 87 PW 1
 88 PT 2
 89 PW 1
 90 LS 0 76.0
 91 UD 0.48

HEC-1 INPUT

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

92 KK DP-1EU
 93 KM ROUTE SBEL-6 TO DP-1EU
 94 RK 1000 0.0400 0.045 0 TRAP 8 10

95 KK DP-1EU
 96 KM COMBINE FLOWS AT DP-1EU
 97 HC 2

98 KK DP-1EL
 99 KM ROUTE DP-1EU TO DP-1EL
 100 RK 2000 0.0300 0.016 0 TRAP 8 10

101 KK SBEL-6
 102 KM RUNOFF FROM SBEL-6
 103 BA 0.0597
 104 PR 1
 105 PW 1
 106 PT 2
 107 PW 1
 108 LS 0 92.0
 109 UD 0.13

110 KK DP-1EL
 111 KM COMBINE FLOWS AT DP-1EL
 112 HC 2

113 KK SBEL-1
 114 KM RUNOFF FROM SBEL-1
 115 BA 0.0282
 116 PR 1
 117 PW 1
 118 PT 2
 119 PW 1
 120 LS 0 75.0
 121 UD 0.14

122 KK DP-1EL
 123 KM ROUTE SBEL-1 TO DP-1EL
 124 RK 1600 0.0380 0.016 0 TRAP 10 3

125 KK DP-1EL
 126 KM COMBINE FLOWS AT DP-1EL
 127 HC 2

128 KK SBEL-2
 129 KM RUNOFF FROM SBEL-2
 130 BA 0.0251
 131 PR 1
 132 PW 1
 133 PT 2
 134 PW 1
 135 LS 0 80.2
 136 UD 0.13

HEC-1 INPUT

186	KM	COMBINE FLOWS AT DP-1EL						
187	HC	2						
188	KK	SBEL-7						
189	KM	RUNOFF FROM SBEL-7						
190	BA	0.0294						
191	PR	1						
192	PW	1						
193	PT	2						
194	PW	1						
195	LS	0 86.1						
196	UD	0.12						
197	KK	DP-1EL						
198	KM	ROUTE SBEL-7 TO DP-1EL						
199	RK	700	0.0710	0.016	0	TRAP	8	10
200	KK	DP-1EL						
201	KM	COMBINE FLOWS AT DP-1EL						
202	HC	2						
203	KK	DP-2EL						
204	KM	ROUTE DP-1EL TO DP-2EL						
205	RK	3900	0.0240	0.045	0	TRAP	10	3
206	KK	SBEL-8						
207	KM	RUNOFF FROM SBEL-8						
208	BA	0.0302						
209	PR	1						
210	PW	1						
211	PT	2						
212	PW	1						
213	LS	0 75.0						
214	UD	0.13						
215	KK	DP-2EL						
216	KM	ROUTE SBEL-8 TO DP-2EL						
217	RK	2900	0.0250	0.045	0	TRAP	10	3
218	KK	DP-2EL						
219	KM	COMBINE FLOWS AT DP-2EL						
220	HC	2						
221	KK	SBEL-9						
222	KM	RUNOFF FROM SBEL-9						
223	BA	0.0694						
224	PR	1						
225	PW	1						
226	PT	2						

HEC-1 INPUT

1

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
227	FW 1
228	LS 0 77.1
229	UD 0.14
230	KK DP-2EL
231	KM ROUTE SBEL-9 TO DP-2EL
232	RK 1300 0.0180 0.045 0 TRAP 10 3
233	KK DP-2EL
234	KM COMBINE FLOWS AT DP-2EL
235	HC 2
236	KK SBEL 10

237 KM RUNOFF FROM SBEL-10
 238 BA 0.0434
 239 PR 1
 240 PW 1
 241 PT 2
 242 PW 1
 243 LS 0 76.0
 244 UD 0.12

245 KK DP-2EL
 246 KM COMBINE FLOWS AT DP-2EL
 247 HC 2

248 KK SBEL11
 249 KM RUNOFF FROM SBEL-11
 250 BA 0.0494
 251 PR 1
 252 PW 1
 253 PT 2
 254 PW 1
 255 LS 0 84.9
 256 UD 0.12

257 KK DP-2EL
 258 KM ROUTE SBEL-11 TO DP-2EL
 259 RK 2900 0.0250 0.045 0 TRAF 10 3

260 KK DP-2EL
 261 KM COMBINE FLOWS AT DP-2EL
 262 HC 2

263 KK SBEL12
 264 KM RUNOFF FROM SBEL-12
 265 BA 0.1063
 266 PR 1
 267 PW 1
 268 PT 2
 269 PW 1
 270 LS 0 77.4
 271 UD 0.16

HEC-1 INPUT

PAGE 7

1

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

272 KK DP-2EL
 273 KM COMBINE FLOWS AT DP-2EL
 274 HC 2

275 KK DF/LP
 276 KD 2
 277 KM ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)
 278 RS 1 STOR 0
 279 SV 0.0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2
 280 SE 6790.0 6800.0 6804.0 6808.0 6810.0 6812.0 6816.0 6818.0 6818.5 6820.0
 281 SL 6788.0 4.91 0.60 0.50
 282 SS 6818.5

283 KK DP-1EC
 284 KM ROUTE DF/LP TO DP-1EC
 285 RK 415 0.0250 0.015 0 CIRC 2.5
 286 KM FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK

287 KK SBEC-1
 288 KM RUNOFF FROM SBEC-1
 289 BA 0.0138

290	PR	1	
291	PW	1	
292	PT	2	
293	PW	1	
294	LS	0	80.0
295	UD	0.11	
296	KK	SBEC-2	
297	KM		RUNOFF FROM BASIN SBEC-2
298	BA	0.0263	
299	PR	1	
300	PW	1	
301	PT	2	
302	PW	1	
303	LS	0	69.0
304	UD	0.13	
305	KK	SBEC-3	
306	KM		RUNOFF FROM SBEC-3
307	BA	0.0470	
308	PR	1	
309	PW	1	
310	PT	2	
311	PW	1	
312	LS	0	72.0
313	UD	0.15	
314	ZZ		

1

SCHMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

20	SBEU-1	
	V	
	V	
29	DP-1EU	
	.	
32		SBEU-2
	.	
41	DP-1EU.....	
	.	
44		SBEU-3
	.	V
	.	V
53		DP-1EU
	.	
56	DP-1EU.....	
	.	
59		SBEU-4
	.	
68	DP-1EU.....	
	.	
71		SBEU-5
	.	
80	DP-1EU.....	

83	.	SBEL-6
	.	V
	.	V
92	.	DP-1EL
	.	.
	.	.
95	DP-1EL.....	.
	.	V
	.	V
98	DP-1EL	.
	.	.
101	.	SBEL-6
	.	.
	.	.
110	DP-1EL.....	.
	.	.
	.	.
113	.	SBEL-1
	.	V
	.	V
122	.	DP-1EL
	.	.
	.	.
125	DP-1EL.....	.
	.	.
	.	.
128	.	SBEL-2
	.	V
	.	V
137	.	DP-1EL
	.	.
	.	.
140	DP-1EL.....	.
	.	.
	.	.
143	.	SBEL-3
	.	V
	.	V
152	.	DP-1EL
	.	.
	.	.
155	DP-1EL.....	.
	.	.
	.	.
158	.	SBEL-4
	.	V
	.	V
167	.	DP-1EL
	.	.
	.	.
170	DP-1EL.....	.
	.	.
	.	.
173	.	SBEL-5
	.	V
	.	V
182	.	DP-1EL
	.	.
	.	.
185	DP-1EL.....	.
	.	.
	.	.
188	.	SBEL-7
	.	V

197	.	DP-1EL	V		
	.		.		
200	DP-1EL	.....	.
	.		V		
	.		V		
203	DP-2EL		.		
	.		.		
206		SBEL-8	.		
	.		V		
	.		V		
215		DP-2EL	.		
	.		.		
218	DP-2EL	.....	.
	.		.		
221		SBEL-9	.		
	.		V		
	.		V		
230		DP-2EL	.		
	.		.		
233	DP-2EL	.....	.
	.		.		
236		SBEL10	.		
	.		.		
245	DP-2EL	.....	.
	.		.		
248		SBEL11	.		
	.		V		
	.		V		
257		DP-2EL	.		
	.		.		
260	DP-2EL	.....	.
	.		.		
263		SBEL12	.		
	.		.		
272	DP-2EL	.....	.
	.		V		
	.		V		
275	DF/LP		.		
	.		V		
	.		V		
283	DP-1EC		.		
	.		.		
287		SBEC-1	.		
	.		.		
296			SBEC-2		
	.		.		
305				SBEC-3	

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR UNDEVELOPED UPPER POND AREA WITHOUT UPPER POND AND
DEVELOPED LOWER POND AREA WITH LOWER POND
HED1 (SCS) 10-YEAR RUNOFF (FCS3.DAT)

6 IO OUTPUT CONTROL VARIABLES
 IFRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NNIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* *
275 KK * DF/LP *
* *

276 KD OUTPUT CONTROL VARIABLES
 IFRNT 2 PRINT CONTROL

IPLU: 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

278 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

279 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2

280 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

281 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COQL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

282 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COCW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00
STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	33.	.0	6790.0	*	1	0820	101	106.	33.5	6808.1	*	1	1640	201	32.	-1.1	6790.0			
1	0005	2	32.	-1.1	6790.0	*	1	0825	102	106.	33.1	6808.0	*	1	1645	202	32.	-1.1	6790.0			
1	0010	3	32.	-1.1	6790.0	*	1	0830	103	105.	32.7	6807.9	*	1	1650	203	32.	-1.1	6790.0			
1	0015	4	32.	-1.1	6790.0	*	1	0835	104	105.	32.3	6807.8	*	1	1655	204	32.	-1.1	6790.0			
1	0020	5	32.	-1.1	6790.0	*	1	0840	105	105.	31.9	6807.7	*	1	1700	205	32.	-1.1	6790.0			
1	0025	6	32.	-1.1	6790.0	*	1	0845	106	105.	31.5	6807.6	*	1	1705	206	32.	-1.1	6790.0			
1	0030	7	32.	-1.1	6790.0	*	1	0850	107	104.	31.0	6807.5	*	1	1710	207	32.	-1.1	6790.0			
1	0035	8	32.	-1.1	6790.0	*	1	0855	108	104.	30.6	6807.4	*	1	1715	208	32.	-1.1	6790.0			
1	0040	9	32.	-1.1	6790.0	*	1	0900	109	104.	30.2	6807.3	*	1	1720	209	32.	-1.1	6790.0			
1	0045	10	32.	-1.1	6790.0	*	1	0905	110	103.	29.7	6807.2	*	1	1725	210	32.	-1.1	6790.0			

1	0050	11	32.	-1	6790.0	*	1	0910	111	103.	29.3	6807.1	*	1	1730	211	32.	-1	6790.0
1	0055	12	32.	-1	6790.0	*	1	0915	112	103.	28.8	6806.9	*	1	1735	212	32.	-1	6790.0
1	0100	13	32.	-1	6790.0	*	1	0920	113	102.	28.3	6806.8	*	1	1740	213	32.	-1	6790.0
1	0105	14	32.	-1	6790.0	*	1	0925	114	102.	27.9	6806.7	*	1	1745	214	32.	-1	6790.0
1	0110	15	32.	-1	6790.0	*	1	0930	115	102.	27.4	6806.6	*	1	1750	215	32.	-1	6790.0
1	0115	16	32.	-1	6790.0	*	1	0935	116	101.	27.0	6806.5	*	1	1755	216	32.	-1	6790.0
1	0120	17	32.	-1	6790.0	*	1	0940	117	101.	26.5	6806.4	*	1	1800	217	32.	-1	6790.0
1	0125	18	32.	-1	6790.0	*	1	0945	118	101.	26.1	6806.2	*	1	1805	218	32.	-1	6790.0
1	0130	19	32.	-1	6790.0	*	1	0950	119	101.	25.6	6806.1	*	1	1810	219	32.	-1	6790.0
1	0135	20	32.	-1	6790.0	*	1	0955	120	100.	25.2	6806.0	*	1	1815	220	32.	-1	6790.0
1	0140	21	32.	-1	6790.0	*	1	1000	121	100.	24.7	6805.9	*	1	1820	221	32.	-1	6790.0
1	0145	22	32.	-1	6790.0	*	1	1005	122	100.	24.2	6805.8	*	1	1825	222	32.	-1	6790.0
1	0150	23	32.	-1	6790.0	*	1	1010	123	99.	23.8	6805.7	*	1	1830	223	32.	-1	6790.0
1	0155	24	32.	-1	6790.0	*	1	1015	124	99.	23.3	6805.5	*	1	1835	224	32.	-1	6790.0
1	0200	25	32.	-1	6790.0	*	1	1020	125	99.	22.9	6805.4	*	1	1840	225	32.	-1	6790.0
1	0205	26	32.	-1	6790.0	*	1	1025	126	98.	22.4	6805.3	*	1	1845	226	32.	-1	6790.0
1	0210	27	32.	-1	6790.0	*	1	1030	127	98.	21.9	6805.2	*	1	1850	227	32.	-1	6790.0
1	0215	28	32.	-1	6790.0	*	1	1035	128	98.	21.5	6805.1	*	1	1855	228	32.	-1	6790.0
1	0220	29	32.	-1	6790.0	*	1	1040	129	97.	21.0	6805.0	*	1	1900	229	32.	-1	6790.0
1	0225	30	32.	-1	6790.0	*	1	1045	130	97.	20.5	6804.8	*	1	1905	230	32.	-1	6790.0
1	0230	31	32.	-1	6790.0	*	1	1050	131	97.	20.0	6804.7	*	1	1910	231	32.	-1	6790.0
1	0235	32	32.	-1	6790.0	*	1	1055	132	96.	19.6	6804.6	*	1	1915	232	32.	-1	6790.0
1	0240	33	32.	-1	6790.0	*	1	1100	133	96.	19.1	6804.5	*	1	1920	233	32.	-1	6790.0
1	0245	34	32.	-1	6790.0	*	1	1105	134	96.	18.6	6804.4	*	1	1925	234	32.	-1	6790.0
1	0250	35	32.	-1	6790.0	*	1	1110	135	95.	18.2	6804.2	*	1	1930	235	32.	-1	6790.0
1	0255	36	32.	-1	6790.0	*	1	1115	136	95.	17.7	6804.1	*	1	1935	236	32.	-1	6790.0
1	0300	37	32.	-1	6790.0	*	1	1120	137	95.	17.2	6804.0	*	1	1940	237	32.	-1	6790.0
1	0305	38	32.	-1	6790.0	*	1	1125	138	94.	16.8	6803.8	*	1	1945	238	32.	-1	6790.0
1	0310	39	32.	-1	6790.0	*	1	1130	139	93.	16.3	6803.7	*	1	1950	239	32.	-1	6790.0
1	0315	40	32.	-1	6790.0	*	1	1135	140	93.	15.8	6803.5	*	1	1955	240	32.	-1	6790.0
1	0320	41	32.	-1	6790.0	*	1	1140	141	92.	15.4	6803.3	*	1	2000	241	32.	-1	6790.0
1	0325	42	32.	-1	6790.0	*	1	1145	142	92.	14.9	6803.2	*	1	2005	242	32.	-1	6790.0
1	0330	43	32.	-1	6790.0	*	1	1150	143	91.	14.5	6803.0	*	1	2010	243	32.	-1	6790.0
1	0335	44	32.	-1	6790.0	*	1	1155	144	91.	14.0	6802.8	*	1	2015	244	32.	-1	6790.0
1	0340	45	32.	-1	6790.0	*	1	1200	145	90.	13.6	6802.7	*	1	2020	245	32.	-1	6790.0
1	0345	46	32.	-1	6790.0	*	1	1205	146	90.	13.2	6802.5	*	1	2025	246	32.	-1	6790.0
1	0350	47	32.	-1	6790.0	*	1	1210	147	89.	12.7	6802.3	*	1	2030	247	32.	-1	6790.0
1	0355	48	32.	-1	6790.0	*	1	1215	148	89.	12.3	6802.2	*	1	2035	248	32.	-1	6790.0
1	0400	49	32.	-1	6790.0	*	1	1220	149	88.	11.9	6802.0	*	1	2040	249	32.	-1	6790.0
1	0405	50	32.	-1	6790.0	*	1	1225	150	88.	11.5	6801.9	*	1	2045	250	32.	-1	6790.0
1	0410	51	32.	-1	6790.0	*	1	1230	151	87.	11.0	6801.7	*	1	2050	251	32.	-1	6790.0
1	0415	52	32.	-1	6790.0	*	1	1235	152	87.	10.6	6801.5	*	1	2055	252	32.	-1	6790.0
1	0420	53	32.	-1	6790.0	*	1	1240	153	86.	10.2	6801.4	*	1	2100	253	32.	-1	6790.0
1	0425	54	32.	-1	6790.0	*	1	1245	154	86.	9.8	6801.2	*	1	2105	254	32.	-1	6790.0
1	0430	55	32.	-1	6790.0	*	1	1250	155	85.	9.4	6801.1	*	1	2110	255	32.	-1	6790.0
1	0435	56	32.	-1	6790.0	*	1	1255	156	85.	9.0	6800.9	*	1	2115	256	32.	-1	6790.0
1	0440	57	32.	-1	6790.0	*	1	1300	157	84.	8.6	6800.8	*	1	2120	257	32.	-1	6790.0
1	0445	58	32.	-1	6790.0	*	1	1305	158	84.	8.2	6800.6	*	1	2125	258	32.	-1	6790.0
1	0450	59	32.	-1	6790.0	*	1	1310	159	83.	7.8	6800.5	*	1	2130	259	32.	-1	6790.0
1	0455	60	32.	-1	6790.0	*	1	1315	160	83.	7.4	6800.3	*	1	2135	260	32.	-1	6790.0
1	0500	61	32.	-1	6790.0	*	1	1320	161	82.	7.0	6800.2	*	1	2140	261	32.	-1	6790.0
1	0505	62	32.	-1	6790.0	*	1	1325	162	82.	6.6	6800.0	*	1	2145	262	32.	-1	6790.0
1	0510	63	32.	-1	6790.0	*	1	1330	163	80.	6.2	6799.6	*	1	2150	263	32.	-1	6790.0
1	0515	64	32.	-1	6790.0	*	1	1335	164	78.	5.9	6799.0	*	1	2155	264	32.	-1	6790.0
1	0520	65	32.	-1	6790.0	*	1	1340	165	76.	5.5	6798.5	*	1	2200	265	32.	-1	6790.0
1	0525	66	32.	-1	6790.0	*	1	1345	166	74.	5.1	6797.9	*	1	2205	266	32.	-1	6790.0
1	0530	67	32.	-1	6790.0	*	1	1350	167	72.	4.8	6797.4	*	1	2210	267	32.	-1	6790.0
1	0535	68	39.	.5	6790.7	*	1	1355	168	70.	4.5	6796.9	*	1	2215	268	32.	-1	6790.0
1	0540	69	54.	2.1	6793.3	*	1	1400	169	68.	4.2	6796.4	*	1	2220	269	32.	-1	6790.0
1	0545	70	73.	4.9	6797.6	*	1	1405	170	67.	3.9	6796.0	*	1	2225	270	32.	-1	6790.0
1	0550	71	84.	8.5	6800.8	*	1	1410	171	65.	3.6	6795.5	*	1	2230	271	32.	-1	6790.0
1	0555	72	89.	12.5	6802.2	*	1	1415	172	63.	3.3	6795.1	*	1	2235	272	32.	-1	6790.0
1	0600	73	93.	16.1	6803.6	*	1	1420	173	61.	3.0	6794.7	*	1	2240	273	32.	-1	6790.0
1	0605	74	96.	19.0	6804.5	*	1	1425	174	59.	2.8	6794.3	*	1	2245	274	32.	-1	6790.0
1	0610	75	98.	21.7	6805.1	*	1	1430	175	57.	2.5	6793.9	*	1	2250	275	32.	-1	6790.0
1	0615	76	100.	24.2	6805.8	*	1	1435	176	56.	2.3	6793.5	*	1					

		DP-1EU	71.	6.25	12.	4.	4.	.15
	HYDROGRAPH AT							
+		SBEU-2	76.	6.17	15.	5.	5.	.19
	2 COMBINED AT							
+		DP-1EU	144.	6.25	27.	9.	9.	.33
	HYDROGRAPH AT							
+		SBEU-3	58.	6.00	9.	3.	3.	.11
	ROUTED TO							
+		DP-1EU	57.	6.08	9.	3.	3.	.11
	2 COMBINED AT							
+		DP-1EU	196.	6.17	37.	12.	12.	.44
	HYDROGRAPH AT							
+		SBEU-4	84.	6.17	17.	6.	5.	.20
	2 COMBINED AT							
+		DP-1EU	280.	6.17	53.	18.	17.	.64
	HYDROGRAPH AT							
+		SBEU-5	35.	6.08	6.	2.	2.	.07
	2 COMBINED AT							
+		DP-1EU	312.	6.17	60.	20.	19.	.72
	HYDROGRAPH AT							
+		SBEU-6	45.	6.08	9.	3.	3.	.11
	ROUTED TO							
+		DP-1EU	45.	6.17	9.	3.	3.	.11
	2 COMBINED AT							
+		DP-1EU	357.	6.17	68.	23.	22.	.83
	ROUTED TO							
+		DP-1EL	349.	6.17	68.	23.	22.	.83
	HYDROGRAPH AT							
+		SBEL-6	112.	5.75	12.	3.	3.	.06
	2 COMBINED AT							
+		DP-1EL	364.	6.17	79.	26.	25.	.89
	HYDROGRAPH AT							
+		SBEL-1	22.	5.83	2.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	21.	5.83	2.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	370.	6.17	82.	27.	26.	.91
	HYDROGRAPH AT							
+		SBEL-2	27.	5.75	3.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	26.	5.83	3.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	375.	6.17	84.	28.	27.	.94
	HYDROGRAPH AT							

+		SBEL-3	56.	5.75	6.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	55.	5.75	6.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	384.	6.17	90.	29.	28.	.97
	HYDROGRAPH AT							
+		SBEL-4	41.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	39.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	390.	6.17	94.	31.	29.	1.00
	HYDROGRAPH AT							
+		SBEL-5	54.	5.75	5.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	52.	5.83	5.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	399.	6.17	99.	32.	31.	1.03
	HYDROGRAPH AT							
+		SBEL-7	44.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	43.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	430.	5.83	104.	33.	32.	1.06
	ROUTED TO							
+		DP-2EL	418.	5.92	103.	33.	32.	1.06
	HYDROGRAPH AT							
+		SBEL-8	23.	5.83	2.	1.	1.	.03
	ROUTED TO							
+		DP-2EL	23.	5.92	2.	1.	1.	.03
	2 COMBINED AT							
+		DP-2EL	441.	5.92	106.	34.	33.	1.09
	HYDROGRAPH AT							
+		SBEL-9	61.	5.83	6.	2.	2.	.07
	ROUTED TO							
+		DP-2EL	59.	5.83	6.	2.	2.	.07
	2 COMBINED AT							
+		DP-2EL	498.	5.92	112.	36.	35.	1.16
	HYDROGRAPH AT							
+		SBEL10	37.	5.75	4.	1.	1.	.04
	2 COMBINED AT							
+		DP-2EL	519.	5.92	115.	37.	36.	1.21
	HYDROGRAPH AT							
+		SBEL11	69.	5.75	7.	2.	2.	.05
	ROUTED TO							

+		DP-2EL	65.	5.92	7.	2.	2.	.05		
	2 COMBINED AT									
+		DP-2EL	585.	5.92	123.	40.	38.	1.25		
	HYDROGRAPH AT									
+		SBEL12	93.	5.83	10.	3.	3.	.11		
	2 COMBINED AT									
+		DP-2EL	667.	5.83	132.	43.	41.	1.36		
	ROUTED TO									
+		DF/LP	107.	7.33	101.	56.	55.	1.36		
+									6808.61	7.33
	ROUTED TO									
+		DP-1EC	107.	7.33	101.	56.	55.	1.36		
	HYDROGRAPH AT									
+		SBEC-1	16.	5.75	1.	0.	0.	.01		
	HYDROGRAPH AT									
+		SBEC-2	14.	5.83	1.	0.	0.	.03		
	HYDROGRAPH AT									
+		SBEC-3	30.	5.83	3.	1.	1.	.05		

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

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 10-YEAR RUNOFF (FCS4.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	3.0								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550

4A

17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					

20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0 78.8									
28	UD	0.15									

29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.016	0	TRAP	8	10			

32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	PR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0 83.1									
40	UD	0.21									

41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									

44	KK	SBEU-3									
45	KM	RUNOFF FROM SBEU-3									
46	BA	0.1117									
47	PR	1									
48	PW	1									
49	PT	2									

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
50	PW	1									
51	LS	0 80.5									
52	UD	0.16									
53	KK	DP-1EU									
54	KM	ROUTE SBEU-3 TO DP-1EU									
55	RK	3400	0.0290	0.016	0	TRAP	8	10			
56	KK	DP-1EU									
57	KM	COMBINE FLOWS AT DP-1EU									
58	HC	2									
59	KK	SBEU-4									
60	KM	RUNOFF FROM SBEU-4									
61	BA	0.2019									
62	PR	1									
63	PW	1									
64	PT	2									
65	PW	1									
66	LS	0 78.7									
67	UD	0.22									
68	KK	DP-1EU									
69	LM	COMBINE FLOWS AT DP-1EU									

122 KK DP-1EL
 123 KM ROUTE SBEL-1 TO DP-1EL
 124 RK 1600 0.0380 0.016 0 TRAP 10 3

 125 KK DP-1EL
 126 KM COMBINE FLOWS AT DP-1EL
 127 HC 2

 128 KK SBEL-2
 129 KM RUNOFF FROM SBEL-2
 130 BA 0.0251
 131 PR 1
 132 PW 1
 133 PT 2
 134 PW 1
 135 LS 0 80.2
 136 UD 0.13

HEC-1 INPUT

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

 137 KK DP-1EL
 138 KM ROUTE SBEL-2 TO DP-1EL
 139 RK 2000 0.0400 0.016 0 TRAP 8 10

 140 KK DP-1EL
 141 KM COMBINE FLOWS AT DP-1EL
 142 HC 2

 143 KK SBEL-3
 144 KM RUNOFF FROM SBEL-3
 145 BA 0.0320
 146 PR 1
 147 PW 1
 148 PT 2
 149 PW 1
 150 LS 0 90.0
 151 UD 0.12

 152 KK DP-1EL
 153 KM ROUTE SBEL-3 TO DP-1EL
 154 RK 1000 0.0500 0.016 0 TRAP 8 10

 155 KK DP-1EL
 156 KM COMBINE FLOWS AT DP-1EL
 157 HC 2

 158 KK SBEL-4
 159 KM RUNOFF FROM SBEL-4
 160 BA 0.0289
 161 PR 1
 162 PW 1
 163 PT 2
 164 PW 1
 165 LS 0 85.0
 166 UD 0.12

 167 KK DP-1EL
 168 KM ROUTE SBEL-4 TO DP-1EL
 169 RK 1000 0.0500 0.016 0 TRAP 8 10

 170 KK DP-1EL
 171 KM COMBINE FLOWS AT DP-1EL
 172 HC 2

173 KK SBEL-5
 174 KM RUNOFF FROM SBEL-5
 175 BA 0.0334
 176 PR 1
 177 PW 1
 178 PT 2
 179 PW 1
 180 LS 0 88.0
 181 UD 0.12

HEC-1 INPUT

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

182 KK DP-1EL
 183 KM ROUTE SBEL-5 TO DP-1EL
 184 RK 2200 0.0360 0.016 0 TRAP 8 10

185 KK DP-1EL
 186 KM COMBINE FLOWS AT DP-1EL
 187 HC 2

188 KK SBEL-7
 189 KM RUNOFF FROM SBEL-7
 190 BA 0.0294
 191 PR 1
 192 PW 1
 193 PT 2
 194 PW 1
 195 LS 0 86.1
 196 UD 0.12

197 KK DP-1EL
 198 KM ROUTE SBEL-7 TO DP-1EL
 199 RK 700 0.0710 0.016 0 TRAP 8 10

200 KK DP-1EL
 201 KM COMBINE FLOWS AT DP-1EL
 202 HC 2

203 KK DP-2EL
 204 KM ROUTE DP-1EL TO DP-2EL
 205 RK 3900 0.0240 0.045 0 TRAP 10 3

206 KK SBEL-8
 207 KM RUNOFF FROM SBEL-8
 208 BA 0.0302
 209 PR 1
 210 PW 1
 211 PT 2
 212 PW 1
 213 LS 0 75.0
 214 UD 0.13

215 KK DP-2EL
 216 KM ROUTE SBEL-8 TO DP-2EL
 217 RK 2900 0.0250 0.045 0 TRAP 10 3

218 KK DP-2EL
 219 KM COMBINE FLOWS AT DP-2EL
 220 HC 2

221 KK SBEL-9
 222 KM RUNOFF FROM SBEL-9
 223 BA 0.0694
 224 PR 1

225
226

PW 1
PT 2

HEC-1 INPUT

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

227
228
229

PW 1
LS 0 77.1
UD 0.14

230
231
232

233
234
235

KK DP-2EL
KM ROUTE SBEL-9 TO DP-2EL
RK 1300 0.0180 0.045 0 TRAP 10 3

KK DP-2EL
KM COMBINE FLOWS AT DP-2EL
HC 2

236
237
238
239
240
241
242
243
244

KK SBEL10
KM RUNOFF FROM SBEL-10
BA 0.0434
FR 1
PW 1
PT 2
PW 1
LS 0 76.0
UD 0.12

245
246
247

KK DP-2EL
KM COMBINE FLOWS AT DP-2EL
HC 2

248
249
250
251
252
253
254
255
256

KK SBEL11
KM RUNOFF FROM SBEL-11
BA 0.0494
FR 1
PW 1
PT 2
PW 1
LS 0 84.9
UD 0.12

257
258
259

KK DP-2EL
KM ROUTE SBEL-11 TO DP-2EL
RK 2900 0.0250 0.045 0 TRAP 10 3

260
261
262

KK DP-2EL
KM COMBINE FLOWS AT DP-2EL
HC 2

263
264
265
266
267
268
269
270
271

KK SBEL12
KM RUNOFF FROM SBEL-12
BA 0.1063
FR 1
PW 1
PT 2
PW 1
LS 0 77.4
UD 0.16

HEC-1 INPUT

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

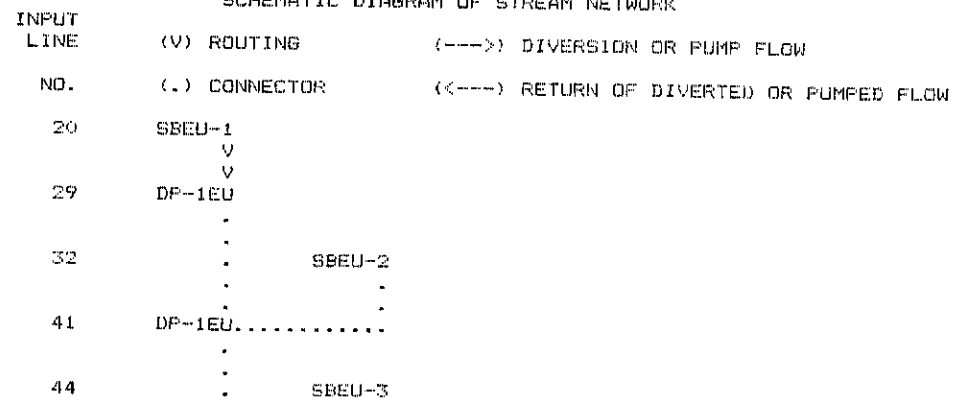
272
273

KK DP-2EL
KM COMBINE FLOWS AT DP-2EL

274	HL	2									
275	KK	DF/LP									
276	KD	2									
277	KM	ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)									
278	RS	1	STOR	0							
279	SV	0.0	6.5	17.2	33.0	42.8	54.0	80.8	96.4	100.9	114.2
280	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
281	SL	6788.0	4.91	0.60	0.50						
282	SS	6818.5									
283	KK	DF-1EC									
284	KM	ROUTE DF/LP TO DF-1EC									
285	RK	415	0.0250	0.015	0	CIRC	2.5				
286	KM	FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK									
287	KK	SBEC-1									
288	KM	RUNOFF FROM SBEC-1									
289	BA	0.0138									
290	PR	1									
291	PW	1									
292	PT	2									
293	PW	1									
294	LS	0	80.0								
295	UD	0.11									
296	KK	SBEC-2									
297	KM	RUNOFF FROM BASIN SBEC-2									
298	BA	0.0263									
299	PR	1									
300	PW	1									
301	PT	2									
302	PW	1									
303	LS	0	69.0								
304	UD	0.13									
305	KK	SBEC-3									
306	KM	RUNOFF FROM SBEC-3									
307	BA	0.0470									
308	PR	1									
309	PW	1									
310	PT	2									
311	PW	1									
312	LS	0	72.0								
313	UD	0.15									
314	ZZ										

1

SCHEMATIC DIAGRAM OF STREAM NETWORK



	.	V
	.	V
53	.	DP-1EU
	.	.
56	DP-1EU.....	.
	.	.
59	.	SBEU-4
	.	.
68	DP-1EU.....	.
	.	.
71	.	SBEU-5
	.	.
80	DP-1EU.....	.
	.	.
83	.	SBEU-6
	.	V
	.	V
92	.	DP-1EU
	.	.
95	DP-1EU.....	.
	V	.
	V	.
98	DP-1EL	.
	.	.
101	.	SBEL-6
	.	.
110	DP-1EL.....	.
	.	.
113	.	SBEL-1
	.	V
	.	V
122	.	DP-1EL
	.	.
125	DP-1EL.....	.
	.	.
128	.	SBEL-2
	.	V
	.	V
137	.	DP-1EL
	.	.
140	DP-1EL.....	.
	.	.
143	.	SBEL-3
	.	V
	.	V
152	.	DP-1EL
	.	.
155	DP-1EL.....	.
	.	.
158	.	SBEL-4

	.	V
	.	V
167	.	DP-1EL
	.	.
170	DP-1EL.....	.
	.	.
173	.	SBEL-5
	.	V
	.	V
182	.	DP-1EL
	.	.
185	DP-1EL.....	.
	.	.
188	.	SBEL-7
	.	V
	.	V
197	.	DP-1EL
	.	.
200	DP-1EL.....	.
	.	V
	.	V
203	DP-2EL	.
	.	.
206	.	SBEL-8
	.	V
	.	V
215	.	DP-2EL
	.	.
218	DP-2EL.....	.
	.	.
221	.	SBEL-9
	.	V
	.	V
230	.	DP-2EL
	.	.
233	DP-2EL.....	.
	.	.
236	.	SBEL10
	.	.
245	DP-2EL.....	.
	.	.
248	.	SBEL11
	.	V
	.	V
257	.	DP-2EL
	.	.
260	DP-2EL.....	.
	.	.
263	.	SBEL12
	.	.
272	DP-2EL.....	.

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 *
 * DF/LP *
 *

276 KD OUTPUT CONTROL VARIABLES
 IFRNT 2 PRINT CONTROL
 IFLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)

HYDROGRAPH ROUTING DATA

278 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

279 SV STORAGE .0 6.5 17.2 33.0 42.8 54.0 80.8 94.4 100.9 114.2

280 SE ELEVATION 6790.00 6800.00 6804.00 6808.00 6810.00 6812.00 6816.00 6818.00 6818.50 6820.00

281 SL LOW-LEVEL OUTLET
 ELEV 6788.00 ELEVATION AT CENTER OF OUTLET
 CAREA 4.91 CROSS-SECTIONAL AREA
 COQL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

282 SS SPILLWAY
 CREL 6818.50 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COQW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW .00 36.42 40.03 44.43 49.92 56.95 64.98 74.98 84.98 94.98

ELEVATION 6790.00 6790.38 6790.87 6791.54 6792.46 6793.81 6795.87 6799.26 6805.43 6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.24	.57	1.00	1.60	2.48	3.82	6.02	6.50	17.20
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00
STORAGE	22.85	33.00	42.80	54.00	80.80	96.40	100.90	114.20		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	33.	.0	6790.0	*	1	0820	101	110.	41.4	6809.7	*	1	1640	201	35.	.2	6790.2			
1	0005	2	32.	-.1	6790.0	*	1	0825	102	110.	41.0	6809.6	*	1	1645	202	34.	.1	6790.1			
1	0010	3	32.	-.1	6790.0	*	1	0830	103	110.	40.5	6809.5	*	1	1650	203	33.	.0	6790.0			
1	0015	4	32.	-.1	6790.0	*	1	0835	104	109.	40.0	6809.4	*	1	1655	204	32.	-.1	6790.0			
1	0020	5	32.	-.1	6790.0	*	1	0840	105	109.	39.5	6809.3	*	1	1700	205	32.	-.1	6790.0			
1	0025	6	32.	-.1	6790.0	*	1	0845	106	109.	39.0	6809.2	*	1	1705	206	32.	-.1	6790.0			
1	0030	7	32.	-.1	6790.0	*	1	0850	107	109.	38.6	6809.1	*	1	1710	207	32.	-.1	6790.0			
1	0035	8	32.	-.1	6790.0	*	1	0855	108	108.	38.1	6809.0	*	1	1715	208	32.	-.1	6790.0			
1	0040	9	32.	-.1	6790.0	*	1	0900	109	108.	37.6	6808.9	*	1	1720	209	32.	-.1	6790.0			
1	0045	10	32.	-.1	6790.0	*	1	0905	110	108.	37.1	6808.8	*	1	1725	210	32.	-.1	6790.0			
1	0050	11	32.	-.1	6790.0	*	1	0910	111	108.	36.6	6808.7	*	1	1730	211	32.	-.1	6790.0			
1	0055	12	32.	-.1	6790.0	*	1	0915	112	107.	36.1	6808.6	*	1	1735	212	32.	-.1	6790.0			
1	0100	13	32.	-.1	6790.0	*	1	0920	113	107.	35.6	6808.5	*	1	1740	213	32.	-.1	6790.0			
1	0105	14	32.	-.1	6790.0	*	1	0925	114	107.	35.1	6808.4	*	1	1745	214	32.	-.1	6790.0			
1	0110	15	32.	-.1	6790.0	*	1	0930	115	107.	34.6	6808.3	*	1	1750	215	32.	-.1	6790.0			
1	0115	16	32.	-.1	6790.0	*	1	0935	116	106.	34.2	6808.2	*	1	1755	216	32.	-.1	6790.0			
1	0120	17	32.	-.1	6790.0	*	1	0940	117	106.	33.7	6808.1	*	1	1800	217	32.	-.1	6790.0			
1	0125	18	32.	-.1	6790.0	*	1	0945	118	106.	33.2	6808.0	*	1	1805	218	32.	-.1	6790.0			
1	0130	19	32.	-.1	6790.0	*	1	0950	119	105.	32.7	6807.9	*	1	1810	219	32.	-.1	6790.0			
1	0135	20	32.	-.1	6790.0	*	1	0955	120	105.	32.3	6807.8	*	1	1815	220	32.	-.1	6790.0			
1	0140	21	32.	-.1	6790.0	*	1	1000	121	105.	31.8	6807.7	*	1	1820	221	32.	-.1	6790.0			
1	0145	22	32.	-.1	6790.0	*	1	1005	122	104.	31.3	6807.6	*	1	1825	222	32.	-.1	6790.0			
1	0150	23	32.	-.1	6790.0	*	1	1010	123	104.	30.8	6807.4	*	1	1830	223	32.	-.1	6790.0			
1	0155	24	32.	-.1	6790.0	*	1	1015	124	104.	30.3	6807.3	*	1	1835	224	32.	-.1	6790.0			
1	0200	25	32.	-.1	6790.0	*	1	1020	125	103.	29.8	6807.2	*	1	1840	225	32.	-.1	6790.0			
1	0205	26	32.	-.1	6790.0	*	1	1025	126	103.	29.3	6807.1	*	1	1845	226	32.	-.1	6790.0			
1	0210	27	32.	-.1	6790.0	*	1	1030	127	103.	28.8	6806.9	*	1	1850	227	32.	-.1	6790.0			
1	0215	28	32.	-.1	6790.0	*	1	1035	128	102.	28.3	6806.8	*	1	1855	228	32.	-.1	6790.0			
1	0220	29	32.	-.1	6790.0	*	1	1040	129	102.	27.8	6806.7	*	1	1900	229	32.	-.1	6790.0			
1	0225	30	32.	-.1	6790.0	*	1	1045	130	102.	27.3	6806.6	*	1	1905	230	32.	-.1	6790.0			
1	0230	31	32.	-.1	6790.0	*	1	1050	131	101.	26.8	6806.4	*	1	1910	231	32.	-.1	6790.0			
1	0235	32	32.	-.1	6790.0	*	1	1055	132	101.	26.3	6806.3	*	1	1915	232	32.	-.1	6790.0			
1	0240	33	32.	-.1	6790.0	*	1	1100	133	101.	25.8	6806.2	*	1	1920	233	32.	-.1	6790.0			
1	0245	34	32.	-.1	6790.0	*	1	1105	134	100.	25.3	6806.0	*	1	1925	234	32.	-.1	6790.0			
1	0250	35	32.	-.1	6790.0	*	1	1110	135	100.	24.8	6805.9	*	1	1930	235	32.	-.1	6790.0			
1	0255	36	32.	-.1	6790.0	*	1	1115	136	100.	24.3	6805.8	*	1	1935	236	32.	-.1	6790.0			
1	0300	37	32.	-.1	6790.0	*	1	1120	137	99.	23.8	6805.7	*	1	1940	237	32.	-.1	6790.0			
1	0305	38	32.	-.1	6790.0	*	1	1125	138	99.	23.3	6805.5	*	1	1945	238	32.	-.1	6790.0			
1	0310	39	32.	-.1	6790.0	*	1	1130	139	99.	22.8	6805.4	*	1	1950	239	32.	-.1	6790.0			
1	0315	40	32.	-.1	6790.0	*	1	1135	140	98.	22.3	6805.3	*	1	1955	240	32.	-.1	6790.0			
1	0320	41	32.	-.1	6790.0	*	1	1140	141	98.	21.9	6805.2	*	1	2000	241	32.	-.1	6790.0			
1	0325	42	32.	-.1	6790.0	*	1	1145	142	98.	21.4	6805.1	*	1	2005	242	32.	-.1	6790.0			
1	0330	43	32.	-.1	6790.0	*	1	1150	143	97.	20.9	6804.9	*	1	2010	243	32.	-.1	6790.0			
1	0335	44	32.	-.1	6790.0	*	1	1155	144	97.	20.4	6804.8	*	1	2015	244	32.	-.1	6790.0			
1	0340	45	32.	-.1	6790.0	*	1	1200	145	97.	19.9	6804.7	*	1	2020	245	32.	-.1	6790.0			

1	0340	46	32.	-1.1	6790.0	* 1	1205	146	96.	19.5	6804.6	* 1	2025	246	32.	-1.1	6790.0
1	0350	47	32.	-1.1	6790.0	* 1	1210	147	96.	19.0	6804.5	* 1	2030	247	32.	-1.1	6790.0
1	0355	48	32.	-1.1	6790.0	* 1	1215	148	95.	18.5	6804.3	* 1	2035	248	32.	-1.1	6790.0
1	0400	49	32.	-1.1	6790.0	* 1	1220	149	95.	18.1	6804.2	* 1	2040	249	32.	-1.1	6790.0
1	0405	50	32.	-1.1	6790.0	* 1	1225	150	95.	17.6	6804.1	* 1	2045	250	32.	-1.1	6790.0
1	0410	51	32.	-1.1	6790.0	* 1	1230	151	94.	17.2	6804.0	* 1	2050	251	32.	-1.1	6790.0
1	0415	52	32.	-1.1	6790.0	* 1	1235	152	94.	16.7	6803.8	* 1	2055	252	32.	-1.1	6790.0
1	0420	53	32.	-1.1	6790.0	* 1	1240	153	93.	16.3	6803.6	* 1	2100	253	32.	-1.1	6790.0
1	0425	54	32.	-1.1	6790.0	* 1	1245	154	93.	15.8	6803.5	* 1	2105	254	32.	-1.1	6790.0
1	0430	55	32.	-1.1	6790.0	* 1	1250	155	92.	15.4	6803.3	* 1	2110	255	32.	-1.1	6790.0
1	0435	56	32.	-1.1	6790.0	* 1	1255	156	92.	14.9	6803.1	* 1	2115	256	32.	-1.1	6790.0
1	0440	57	32.	-1.1	6790.0	* 1	1300	157	91.	14.5	6803.0	* 1	2120	257	32.	-1.1	6790.0
1	0445	58	32.	-1.1	6790.0	* 1	1305	158	91.	14.0	6802.8	* 1	2125	258	32.	-1.1	6790.0
1	0450	59	32.	-1.1	6790.0	* 1	1310	159	90.	13.6	6802.7	* 1	2130	259	32.	-1.1	6790.0
1	0455	60	32.	-1.1	6790.0	* 1	1315	160	90.	13.2	6802.5	* 1	2135	260	32.	-1.1	6790.0
1	0500	61	32.	-1.1	6790.0	* 1	1320	161	89.	12.7	6802.3	* 1	2140	261	32.	-1.1	6790.0
1	0505	62	32.	-1.1	6790.0	* 1	1325	162	89.	12.3	6802.2	* 1	2145	262	32.	-1.1	6790.0
1	0510	63	32.	-1.1	6790.0	* 1	1330	163	88.	11.9	6802.0	* 1	2150	263	32.	-1.1	6790.0
1	0515	64	32.	-1.1	6790.0	* 1	1335	164	88.	11.4	6801.8	* 1	2155	264	32.	-1.1	6790.0
1	0520	65	32.	-1.1	6790.0	* 1	1340	165	87.	11.0	6801.7	* 1	2200	265	32.	-1.1	6790.0
1	0525	66	32.	-1.1	6790.0	* 1	1345	166	87.	10.6	6801.5	* 1	2205	266	32.	-1.1	6790.0
1	0530	67	32.	-1.1	6790.0	* 1	1350	167	86.	10.2	6801.4	* 1	2210	267	32.	-1.1	6790.0
1	0535	68	41.	.7	6791.0	* 1	1355	168	86.	9.7	6801.2	* 1	2215	268	32.	-1.1	6790.0
1	0540	69	61.	3.1	6794.7	* 1	1400	169	85.	9.3	6801.1	* 1	2220	269	32.	-1.1	6790.0
1	0545	70	83.	7.7	6800.4	* 1	1405	170	85.	8.9	6800.9	* 1	2225	270	32.	-1.1	6790.0
1	0550	71	91.	14.4	6803.0	* 1	1410	171	84.	8.5	6800.7	* 1	2230	271	32.	-1.1	6790.0
1	0555	72	98.	22.1	6805.2	* 1	1415	172	84.	8.1	6800.6	* 1	2235	272	32.	-1.1	6790.0
1	0600	73	103.	29.5	6807.1	* 1	1420	173	83.	7.7	6800.4	* 1	2240	273	32.	-1.1	6790.0
1	0605	74	107.	35.3	6808.5	* 1	1425	174	83.	7.2	6800.3	* 1	2245	274	32.	-1.1	6790.0
1	0610	75	109.	39.2	6809.3	* 1	1430	175	82.	6.8	6800.1	* 1	2250	275	32.	-1.1	6790.0
1	0615	76	110.	41.5	6809.7	* 1	1435	176	81.	6.4	6799.9	* 1	2255	276	32.	-1.1	6790.0
1	0620	77	111.	43.0	6810.0	* 1	1440	177	79.	6.0	6799.3	* 1	2300	277	32.	-1.1	6790.0
1	0625	78	111.	44.0	6810.2	* 1	1445	178	77.	5.7	6798.7	* 1	2305	278	32.	-1.1	6790.0
1	0630	79	112.	44.8	6810.3	* 1	1450	179	75.	5.3	6798.1	* 1	2310	279	32.	-1.1	6790.0
1	0635	80	112.	45.2	6810.4	* 1	1455	180	73.	4.9	6797.6	* 1	2315	280	32.	-1.1	6790.0
1	0640	81	112.	45.5	6810.5	* 1	1500	181	71.	4.6	6797.1	* 1	2320	281	32.	-1.1	6790.0
1	0645	82	112.	45.7	6810.5	* 1	1505	182	69.	4.3	6796.6	* 1	2325	282	32.	-1.1	6790.0
1	0650	83	112.	45.8	6810.5	* 1	1510	183	67.	3.9	6796.1	* 1	2330	283	32.	-1.1	6790.0
1	0655	84	112.	45.8	6810.5	* 1	1515	184	65.	3.6	6795.6	* 1	2335	284	32.	-1.1	6790.0
1	0700	85	112.	45.8	6810.5	* 1	1520	185	63.	3.3	6795.1	* 1	2340	285	32.	-1.1	6790.0
1	0705	86	112.	45.7	6810.5	* 1	1525	186	61.	3.1	6794.7	* 1	2345	286	32.	-1.1	6790.0
1	0710	87	112.	45.5	6810.5	* 1	1530	187	59.	2.8	6794.3	* 1	2350	287	32.	-1.1	6790.0
1	0715	88	112.	45.3	6810.5	* 1	1535	188	57.	2.5	6793.9	* 1	2355	288	32.	-1.1	6790.0
1	0720	89	112.	45.1	6810.4	* 1	1540	189	55.	2.3	6793.5	* 2	0000	289	32.	-1.1	6790.0
1	0725	90	112.	44.9	6810.4	* 1	1545	190	53.	2.0	6793.1	* 2	0005	290	32.	-1.1	6790.0
1	0730	91	112.	44.6	6810.3	* 1	1550	191	51.	1.8	6792.8	* 2	0010	291	32.	-1.1	6790.0
1	0735	92	112.	44.4	6810.3	* 1	1555	192	50.	1.6	6792.4	* 2	0015	292	32.	-1.1	6790.0
1	0740	93	111.	44.1	6810.2	* 1	1600	193	48.	1.4	6792.1	* 2	0020	293	32.	-1.1	6790.0
1	0745	94	111.	43.8	6810.2	* 1	1605	194	46.	1.2	6791.8	* 2	0025	294	32.	-1.1	6790.0
1	0750	95	111.	43.6	6810.1	* 1	1610	195	45.	1.0	6791.5	* 2	0030	295	32.	-1.1	6790.0
1	0755	96	111.	43.3	6810.1	* 1	1615	196	43.	.8	6791.3	* 2	0035	296	32.	-1.1	6790.0
1	0800	97	111.	43.0	6810.0	* 1	1620	197	41.	.7	6791.0	* 2	0040	297	32.	-1.1	6790.0
1	0805	98	111.	42.6	6810.0	* 1	1625	198	40.	.5	6790.8	* 2	0045	298	32.	-1.1	6790.0
1	0810	99	111.	42.3	6809.9	* 1	1630	199	38.	.4	6790.6	* 2	0050	299	32.	-1.1	6790.0
1	0815	100	110.	41.9	6809.8	* 1	1635	200	37.	.3	6790.4	* 2	0055	300	32.	-1.1	6790.0

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
112.	6.92	107.	60.	59.	59.	
		(INCHES)	.729	1.638	1.671	1.671
		(AC-FT)	53.	119.	121.	121.

PEAK STORAGE		TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
46.	6.92		36.	11.	10.	10.
PEAK STAGE		TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6810.54	6.92		6808.43	6796.48	6796.25	6796.25

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT									
+		SBEU-1	140.	5.83	15.	5.	4.	.15		
+	ROUTED TO									
+		DP-1EU	139.	5.92	14.	5.	4.	.15		
+	HYDROGRAPH AT									
+		SBEU-2	202.	5.83	23.	7.	7.	.19		
+	2 COMBINED AT									
+		DP-1EU	331.	5.83	38.	12.	11.	.33		
+	HYDROGRAPH AT									
+		SBEU-3	116.	5.83	12.	4.	4.	.11		
+	ROUTED TO									
+		DP-1EU	112.	5.92	12.	4.	4.	.11		
+	2 COMBINED AT									
+		DP-1EU	441.	5.83	50.	16.	15.	.44		
+	HYDROGRAPH AT									
+		SBEU-4	166.	5.83	20.	6.	6.	.20		
+	2 COMBINED AT									
+		DP-1EU	607.	5.83	70.	22.	21.	.64		
+	HYDROGRAPH AT									
+		SBEU-5	36.	5.83	4.	1.	1.	.07		
+	2 COMBINED AT									
+		DP-1EU	643.	5.83	74.	23.	23.	.72		
+	HYDROGRAPH AT									
+		SBEU-6	84.	5.83	10.	3.	3.	.11		
+	ROUTED TO									
+		DP-1EU	80.	5.83	10.	3.	3.	.11		

+	2 COMBINED AT	DP-1EU	724.	5.83	83.	27.	26.	.83
	ROUTED TO							
+		DP-1EL	704.	5.92	83.	27.	26.	.83
	HYDROGRAPH AT							
+		SBEL-6	112.	5.75	12.	3.	3.	.06
	2 COMBINED AT							
+		DP-1EL	777.	5.83	95.	30.	29.	.89
	HYDROGRAPH AT							
+		SBEL-1	22.	5.83	2.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	21.	5.83	2.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	798.	5.83	97.	31.	30.	.91
	HYDROGRAPH AT							
+		SBEL-2	27.	5.75	3.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	26.	5.83	3.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	825.	5.83	100.	32.	30.	.94
	HYDROGRAPH AT							
+		SBEL-3	56.	5.75	6.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	55.	5.75	6.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	875.	5.83	105.	33.	32.	.97
	HYDROGRAPH AT							
+		SBEL-4	41.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	39.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	913.	5.83	109.	35.	33.	1.00
	HYDROGRAPH AT							
+		SBEL-5	54.	5.75	5.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	52.	5.83	5.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	964.	5.83	115.	36.	35.	1.03
	HYDROGRAPH AT							
+		SBEL-7	44.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	43.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	1004.	5.83	119.	38.	36.	1.06

+	ROUTED TO	DP-2EL	1000.	5.92	122.	38.	37.	1.06		
+	HYDROGRAPH AT	SBEL-8	23.	5.83	2.	1.	1.	.03		
+	ROUTED TO	DP-2EL	23.	5.92	2.	1.	1.	.03		
+	2 COMBINED AT	DP-2EL	1023.	5.92	124.	39.	38.	1.09		
+	HYDROGRAPH AT	SBEL-9	61.	5.83	6.	2.	2.	.07		
+	ROUTED TO	DP-2EL	59.	5.83	6.	2.	2.	.07		
+	2 COMBINED AT	DP-2EL	1080.	5.92	130.	41.	40.	1.16		
+	HYDROGRAPH AT	SBEL10	37.	5.75	4.	1.	1.	.04		
+	2 COMBINED AT	DP-2EL	1101.	5.92	134.	42.	41.	1.21		
+	HYDROGRAPH AT	SBEL11	69.	5.75	7.	2.	2.	.05		
+	ROUTED TO	DP-2EL	65.	5.92	7.	2.	2.	.05		
+	2 COMBINED AT	DP-2EL	1167.	5.92	141.	45.	43.	1.25		
+	HYDROGRAPH AT	SBEL12	93.	5.83	10.	3.	3.	.11		
+	2 COMBINED AT	DP-2EL	1237.	5.92	151.	48.	46.	1.36		
+	ROUTED TO	DF/LP	112.	6.92	107.	60.	59.	1.36		
+	ROUTED TO	DP-1EC	112.	6.92	107.	60.	59.	1.36	6810.54	6.92
+	HYDROGRAPH AT	SBEC-1	16.	5.75	1.	0.	0.	.01		
+	HYDROGRAPH AT	SBEC-2	14.	5.83	1.	0.	0.	.03		
+	HYDROGRAPH AT	SBEC-3	30.	5.83	3.	1.	1.	.05		

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

1

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND									
4	ID	HEC1 (SCS) 10-YEAR RUNOFF (FC55.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	3.0								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBEU-1									
21	KM	RUNOFF FROM SBEU-1									
22	BA	0.1461									
23	PR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	78.8								
28	UD	0.15									
29	KK	DP-1EU									
30	KM	ROUTE SBEU-1 TO DP-1EU									
31	RK	6600	0.0300	0.016	0	TRAP	8	10			
32	KK	SBEU-2									
33	KM	RUNOFF FROM SBEU-2									
34	BA	0.1851									
35	PR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	83.1								
40	UD	0.21									
41	KK	DP-1EU									
42	KM	COMBINE FLOWS AT DP-1EU									
43	HC	2									
44	KK	SBEU-3									
45	KM	RUNOFF FROM SBEU-3									
46	BA	0.1117									

5A

96 KM COMBINE FLOWS AT DP-1EU
 97 HC 2

 98 KK DF/UP
 99 KO 2
 100 KM ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)
 101 RS 1 STOR 0
 102 SV 0.0 0.1 1.8 18.6 42.3 79.1 103.3 132.0
 103 SE 6956.0 6958.0 6960.0 6966.0 6970.0 6974.0 6976.0 6978.0
 104 SL 6958.0 3.14 0.60 0.50
 105 SS 6976.0

106 KK DP-1EL
 107 KM ROUTE DP-1EU TO DP-1EL
 108 RK 2000 0.0200 0.015 0 CIRC 2

109 KK SBEL-6
 110 KM RUNOFF FROM SBEL-6
 111 BA 0.0597
 112 PR 1
 113 PW 1
 114 PT 2
 115 PW 1
 116 LS 0 92.0
 117 UD 0.13

118 KK DP-1EL
 119 KM COMBINE FLOWS AT DP-1EL
 120 HC 2

121 KK SBEL-1
 122 KM RUNOFF FROM SBEL-1
 123 BA 0.0282
 124 PR 1
 125 PW 1
 126 PT 2
 127 PW 1
 128 LS 0 75.0
 129 UD 0.14

130 KK DP-1EL
 131 KM ROUTE SBEL-1 TO DP-1EL
 132 RK 1600 0.0380 0.016 0 TRAP 8 10
 HEC-1 INPUT

PAGE 4

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

133 KK DP-1EL
 134 KM COMBINE FLOWS AT DP-1EL
 135 HC 2

136 KK SBEL-2
 137 KM RUNOFF FROM SBEL-2
 138 BA 0.0251
 139 PR 1
 140 PW 1
 141 PT 2
 142 PW 1
 143 LS 0 80.2
 144 UD 0.13

145 KK DP-1EL
 146 KM ROUTE SBEL-2 TO DP-1EL
 147 RK 2000 0.0400 0.016 0 TRAP 8 10


```

148 KK DP-1EL
149 KM COMBINE FLOWS AT DP-1EL
150 HC 2

151 KK SBEL-3
152 KM RUNOFF FROM SBEL-3
153 BA 0.0320
154 PR 1
155 PW 1
156 PT 2
157 FW 1
158 LS 0 90.0
159 UD 0.12

160 KK DP-1EL
161 KM ROUTE SBEL-3 TO DP-1EL
162 RK 1000 0.0500 0.016 0 TRAP 8 10

163 KK DP-1EL
164 KM COMBINE FLOWS AT DP-1EL
165 HC 2

166 KK SBEL-4
167 KM RUNOFF FROM SBEL-4
168 BA 0.0289
169 PR 1
170 FW 1
171 PT 2
172 PW 1
173 LS 0 85.0
174 UD 0.12

```

1

HEC-1 INPUT

```

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

175 KK DP-1EL
176 KM ROUTE SBEL-4 TO DP-1EL
177 RK 1000 0.0500 0.016 0 TRAP 8 10

178 KK DP-1EL
179 KM COMBINE FLOWS AT DP-1EL
180 HC 2

181 KK SBEL-5
182 KM RUNOFF FROM SBEL-5
183 BA 0.0334
184 FR 1
185 PW 1
186 PT 2
187 FW 1
188 LS 0 88.0
189 UD 0.12

190 KK DP-1EL
191 KM ROUTE SBEL-5 TO DP-1EL
192 RK 2200 0.0360 0.016 0 TRAP 8 10

193 KK DP-1EL
194 KM COMBINE FLOWS AT DP-1EL
195 HC 2

196 KK SBEL-7
197 KM RUNOFF FROM SBEL-7
198 BA 0.0294
199 FR 1

```

200	PW	1							
201	PT	2							
202	PW	1							
203	LS	0	86.1						
204	UD	0.12							
205	KK	DP-1EL							
206	KM	ROUTE SBEL-7 TO DP-1EL							
207	RK	700	0.0710	0.016	0	TRAP	8	10	
208	KK	DP-1EL							
209	KM	COMBINE FLOWS AT DP-1EL							
210	HC	2							
211	KK	DP-2EL							
212	KM	ROUTE DP-1EL TO DP-2EL							
213	RK	3900	0.0100	0.045	0	TRAP	40	4	
214	KK	SBEL-8							
215	KM	RUNOFF FROM SBEL-8							
216	BA	0.0302							
217	FR	1							
218	PW	1							
219	PT	2							

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
220	PW	1									
221	LS	0	75.0								
222	UD	0.13									
223	KK	DP-2EL									
224	KM	ROUTE SBEL-8 TO DP-2EL									
225	RK	2900	0.0100	0.045	0	TRAP	40	4			
226	KK	DP-2EL									
227	KM	COMBINE FLOWS AT DP-2EL									
228	HC	2									
229	KK	SBEL-9									
230	KM	RUNOFF FROM SBEL-9									
231	BA	0.0694									
232	FR	1									
233	PW	1									
234	PT	2									
235	PW	1									
236	LS	0	77.1								
237	UD	0.14									
238	KK	DP-2EL									
239	KM	ROUTE SBEL-9 TO DP-2EL									
240	RK	1300	0.0100	0.045	0	TRAP	40	4			
241	KK	DP-2EL									
242	KM	COMBINE FLOWS AT DP-2EL									
243	HC	2									
244	KK	SBEL-10									
245	KM	RUNOFF FROM SBEL-10									
246	BA	0.0434									
247	FR	1									
248	PW	1									
249	PT	2									
250	PW	1									
251	LS	0	76.0								

252 UD 0.12
 253 KK DP-2EL
 254 KM COMBINE FLOWS AT DP-2EL
 255 HC 2
 256 KK SBEL11
 257 KM RUNOFF FROM SBEL-11
 258 BA 0.0494
 259 PR 1
 260 PW 1
 261 PT 2
 262 PW 1
 263 LS 0 84.9
 264 UD 0.12

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
 265 KK DP-2EL
 266 KM ROUTE SBEL-11 TO DP-2EL
 267 RK 2900 0.0100 0.045 0 TRAP 40 4
 268 KK DP-2EL
 269 KM COMBINE FLOWS AT DP-2EL
 270 HC 2
 271 KK SBEL12
 272 KM RUNOFF FROM SBEL-12
 273 BA 0.1063
 274 PR 1
 275 PW 1
 276 PT 2
 277 PW 1
 278 LS 0 77.4
 279 UD 0.16
 280 KK DP-2EL
 281 KM COMBINE FLOWS AT DP-2EL
 282 HC 2
 283 KK DF/LP
 284 KO 2
 285 KM ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND
 286 RS 1 STOR 0
 287 SV 0.0 6.5 17.2 33.0 42.8 54.0 80.8 96.4 100.9 114.2
 288 SE 6790.0 6800.0 6804.0 6808.0 6810.0 6812.0 6816.0 6818.0 6818.5 6820.0
 289 SL 6788.0 4.91 0.60 0.50
 290 SS 6818.5
 291 KK DP-1EC
 292 KM ROUTE DF/LP TO DP-1EC
 293 RK 415 0.0250 0.015 0 CIRC 2.50
 294 KM FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK
 295 KK SBEC-1
 296 KM RUNOFF FROM SBEC-1
 297 BA 0.0138
 298 PR 1
 299 PW 1
 300 PT 2
 301 PW 1
 302 LS 0 80.0
 303 UD 0.11

304 KK SBEC-2
 305 KM RUNOFF FROM BASIN SBEC-2
 306 BA 0.0263
 307 PR 1
 308 PW 1
 309 PT 2
 310 PW 1
 311 LS 0 69.0

HEC-1 INPUT

PAGE 8

1
 LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
 312 UD 0.13
 313 KK SBEC-3
 314 KM RUNOFF FROM SBEC-3
 315 BA 0.0470
 316 PR 1
 317 PW 1
 318 PT 2
 319 PW 1
 320 LS 0 72.0
 321 UD 0.15
 322 ZZ

1
 SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

20 SBEU-1
   V
   V
29 DP-1EU
   .
   .
32 . SBEU-2
   .
   .
41 DP-1EU.....
   .
   .
44 . SBEU-3
   . V
   . V
53 . DP-1EU
   .
   .
56 DP-1EU.....
   .
   .
59 . SBEU-4
   .
   .
68 DP-1EU.....
   .
   .
71 . SBEU-5
   .
   .
80 DP-1EU.....
   .
   .
83 . SBEU-6
   . V
  
```

92	.	DP-1EU	V
	.		.
95	DP-1EU.....		.
	.		V
	.		V
98	DF/UP		V
	.		V
104	DP-1EL		.
	.		.
109		SBEL-6	.
	.		.
118	DP-1EL.....		.
	.		.
121		SBEL-1	V
	.		V
130		DP-1EL	.
	.		.
133	DP-1EL.....		.
	.		.
136		SBEL-2	V
	.		V
145		DP-1EL	.
	.		.
148	DP-1EL.....		.
	.		.
151		SBEL-3	V
	.		V
160		DP-1EL	.
	.		.
163	DP-1EL.....		.
	.		.
166		SBEL-4	V
	.		V
175		DP-1EL	.
	.		.
178	DP-1EL.....		.
	.		.
181		SBEL-5	V
	.		V
190		DP-1EL	.
	.		.
193	DP-1EL.....		.
	.		.
196		SBEL-7	V
	.		.

205	.	.	v
	.	DP-1EL	.
	.	.	.
208	DP-1EL	.....	.
	.	.	.
	.	v	.
	.	v	.
211	DP-2EL	.	.
	.	.	.
214	.	SBEL-8	.
	.	.	v
	.	.	v
223	.	DP-2EL	.
	.	.	.
226	DP-2EL	.....	.
	.	.	.
229	.	SBEL-9	.
	.	.	v
	.	.	v
238	.	DP-2EL	.
	.	.	.
241	DP-2EL	.....	.
	.	.	.
244	.	SBEL10	.
	.	.	.
253	DP-2EL	.....	.
	.	.	.
256	.	SBEL11	.
	.	.	v
	.	.	v
265	.	DP-2EL	.
	.	.	.
268	DP-2EL	.....	.
	.	.	.
271	.	SBEL12	.
	.	.	.
280	DP-2EL	.....	.
	.	.	v
	.	.	v
283	DF/LP	.	.
	.	.	v
	.	.	v
291	DP-1EC	.	.
	.	.	.
295	.	SBEC-1	.
	.	.	.
304	.	.	SBEC-2
	.	.	.
313	.	.	SBEC-3

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

FAIRFAX CREEK DRAINAGE BASIN
HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITH UPPER POND AND
DEVELOPED LOWER POND AREA WITH LOWER POND
HEC1 (SCS) 10-YEAR RUNOFF (FC55.DAT)

6 IO OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* *
98 KK * DF/UP *
* *

99 KD OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 ROUTE FLOW THROUGH DETENTION FACILITY/UPPER POND (DF/UP)

HYDROGRAPH ROUTING DATA

101 RS STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

102 SV	STORAGE	.0	.1	1.8	18.6	42.3	79.1	103.3	132.0
103 SE	ELEVATION	6956.00	6958.00	6960.00	6966.00	6970.00	6974.00	6976.00	6978.00
104 SL	LOW-LEVEL OUTLET								
	ELEV	6958.00	ELEVATION AT CENTER OF OUTLET						
	CAREA	3.14	CROSS-SECTIONAL AREA						
	COEF	.60	COEFFICIENT						
	EXPL	.50	EXPONENT OF HEAD						
105 SS	SPILLWAY								
	CREL	6976.00	SPILLWAY CREST ELEVATION						
	SPWID	.00	SPILLWAY WIDTH						
	CD&W	.00	WEIR COEFFICIENT						
	EXPW	1.50	EXPONENT OF HEAD						

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	15.40	17.27	19.67	22.83	27.21	33.67	44.15	64.10
ELEVATION	6956.00	6958.00	6959.04	6959.31	6959.69	6960.28	6961.24	6962.97	6966.54	6976.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.10	.98	1.21	1.54	1.80	2.59	5.28	10.11	18.60
OUTFLOW	.00	.00	15.40	17.27	19.67	21.37	22.83	27.21	33.67	42.74
ELEVATION	6956.00	6958.00	6959.04	6959.31	6959.69	6960.00	6960.28	6961.24	6962.97	6966.00
STORAGE	21.80	42.30	79.10	103.30	132.00					
OUTFLOW	44.15	52.34	60.44	64.10	67.57					
ELEVATION	6966.54	6970.00	6974.00	6976.00	6978.00					

HYDROGRAPH AT STATION DF/UP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	6956.0	*	1		0820	101	46.	26.5	6967.3	*	1		1640	201	33.	9.4	6962.7
1		0005	2	0.	.0	6956.0	*	1		0825	102	46.	26.3	6967.3	*	1		1645	202	33.	9.3	6962.7
1		0010	3	0.	.0	6956.0	*	1		0830	103	46.	26.1	6967.3	*	1		1650	203	32.	9.1	6962.6
1		0015	4	0.	.0	6956.0	*	1		0835	104	46.	26.0	6967.2	*	1		1655	204	32.	9.0	6962.6
1		0020	5	0.	.0	6956.0	*	1		0840	105	46.	25.8	6967.2	*	1		1700	205	32.	8.8	6962.5
1		0025	6	0.	.0	6956.0	*	1		0845	106	46.	25.6	6967.2	*	1		1705	206	32.	8.7	6962.5
1		0030	7	0.	.0	6956.0	*	1		0850	107	46.	25.5	6967.2	*	1		1710	207	32.	8.6	6962.4
1		0035	8	0.	.0	6956.0	*	1		0855	108	46.	25.3	6967.1	*	1		1715	208	31.	8.4	6962.4
1		0040	9	0.	.0	6956.0	*	1		0900	109	45.	25.1	6967.1	*	1		1720	209	31.	8.3	6962.3
1		0045	10	0.	.0	6956.0	*	1		0905	110	45.	25.0	6967.1	*	1		1725	210	31.	8.2	6962.3
1		0050	11	0.	.0	6956.0	*	1		0910	111	45.	24.8	6967.0	*	1		1730	211	31.	8.0	6962.2
1		0055	12	0.	.0	6956.0	*	1		0915	112	45.	24.7	6967.0	*	1		1735	212	31.	7.9	6962.2
1		0100	13	0.	.0	6956.0	*	1		0920	113	45.	24.5	6967.0	*	1		1740	213	31.	7.8	6962.1
1		0105	14	0.	.0	6956.0	*	1		0925	114	45.	24.3	6967.0	*	1		1745	214	30.	7.6	6962.1
1		0110	15	0.	.0	6956.0	*	1		0930	115	45.	24.2	6966.9	*	1		1750	215	30.	7.5	6962.0
1		0115	16	0.	.0	6956.0	*	1		0935	116	45.	24.0	6966.9	*	1		1755	216	30.	7.4	6962.0
1		0120	17	0.	.0	6956.0	*	1		0940	117	45.	23.8	6966.9	*	1		1800	217	30.	7.2	6961.9
1		0125	18	0.	.0	6956.0	*	1		0945	118	45.	23.7	6966.9	*	1		1805	218	30.	7.1	6961.9
1		0130	19	0.	.0	6956.0	*	1		0950	119	45.	23.5	6966.8	*	1		1810	219	29.	7.0	6961.9
1		0135	20	0.	.0	6956.0	*	1		0955	120	45.	23.4	6966.8	*	1		1815	220	29.	6.9	6961.8
1		0140	21	0.	.0	6956.0	*	1		1000	121	45.	23.2	6966.8	*	1		1820	221	29.	6.7	6961.8
1		0145	22	0.	.0	6956.0	*	1		1005	122	45.	23.0	6966.7	*	1		1825	222	29.	6.6	6961.8
1		0150	23	0.	.0	6956.0	*	1		1010	123	45.	22.8	6966.7	*	1		1830	223	29.	6.5	6961.7
1		0155	24	0.	.0	6956.0	*	1		1015	124	44.	22.6	6966.7	*	1		1835	224	29.	6.4	6961.7

1	0200	25	0.	.0	6956.0	*	1	1020	125	44.	22.5	6966.7	*	1	1840	225	29.	6.3	6961.6
1	0205	26	0.	.0	6956.0	*	1	1025	126	44.	22.3	6966.6	*	1	1845	226	28.	6.1	6961.6
1	0210	27	0.	.0	6956.0	*	1	1030	127	44.	22.1	6966.6	*	1	1850	227	28.	6.0	6961.5
1	0215	28	0.	.0	6956.0	*	1	1035	128	44.	21.9	6966.6	*	1	1855	228	28.	5.9	6961.5
1	0220	29	0.	.0	6956.0	*	1	1040	129	44.	21.7	6966.5	*	1	1900	229	28.	5.8	6961.4
1	0225	30	0.	.0	6956.0	*	1	1045	130	44.	21.5	6966.5	*	1	1905	230	28.	5.7	6961.4
1	0230	31	0.	.0	6956.0	*	1	1050	131	44.	21.3	6966.5	*	1	1910	231	28.	5.6	6961.3
1	0235	32	0.	.0	6956.0	*	1	1055	132	44.	21.1	6966.4	*	1	1915	232	27.	5.5	6961.3
1	0240	33	0.	.0	6956.0	*	1	1100	133	44.	20.9	6966.4	*	1	1920	233	27.	5.4	6961.3
1	0245	34	0.	.0	6956.0	*	1	1105	134	44.	20.7	6966.4	*	1	1925	234	27.	5.2	6961.2
1	0250	35	0.	.0	6956.0	*	1	1110	135	44.	20.6	6966.3	*	1	1930	235	27.	5.1	6961.2
1	0255	36	0.	.0	6956.0	*	1	1115	136	44.	20.4	6966.3	*	1	1935	236	27.	5.0	6961.2
1	0300	37	0.	.0	6956.0	*	1	1120	137	43.	20.2	6966.3	*	1	1940	237	27.	4.9	6961.1
1	0305	38	0.	.0	6956.0	*	1	1125	138	43.	20.0	6966.2	*	1	1945	238	26.	4.8	6961.1
1	0310	39	0.	.0	6956.0	*	1	1130	139	43.	19.8	6966.2	*	1	1950	239	26.	4.7	6961.0
1	0315	40	0.	.0	6956.0	*	1	1135	140	43.	19.6	6966.2	*	1	1955	240	26.	4.6	6961.0
1	0320	41	0.	.0	6956.0	*	1	1140	141	43.	19.4	6966.1	*	1	2000	241	26.	4.5	6961.0
1	0325	42	0.	.0	6956.0	*	1	1145	142	43.	19.3	6966.1	*	1	2005	242	26.	4.4	6960.9
1	0330	43	0.	.0	6956.0	*	1	1150	143	43.	19.1	6966.1	*	1	2010	243	26.	4.3	6960.9
1	0335	44	0.	.0	6956.0	*	1	1155	144	43.	18.9	6966.1	*	1	2015	244	25.	4.1	6960.8
1	0340	45	0.	.0	6956.0	*	1	1200	145	43.	18.7	6966.0	*	1	2020	245	25.	4.0	6960.8
1	0345	46	0.	.0	6956.0	*	1	1205	146	43.	18.5	6966.0	*	1	2025	246	25.	3.9	6960.7
1	0350	47	0.	.0	6956.0	*	1	1210	147	42.	18.4	6965.9	*	1	2030	247	25.	3.8	6960.7
1	0355	48	0.	.0	6956.0	*	1	1215	148	42.	18.2	6965.8	*	1	2035	248	25.	3.6	6960.7
1	0400	49	0.	.0	6956.0	*	1	1220	149	42.	18.0	6965.8	*	1	2040	249	24.	3.5	6960.6
1	0405	50	0.	.0	6956.0	*	1	1225	150	42.	17.8	6965.7	*	1	2045	250	24.	3.4	6960.6
1	0410	51	0.	.0	6956.0	*	1	1230	151	42.	17.7	6965.7	*	1	2050	251	24.	3.3	6960.5
1	0415	52	0.	.0	6956.0	*	1	1235	152	42.	17.5	6965.6	*	1	2055	252	24.	3.1	6960.5
1	0420	53	0.	.0	6956.0	*	1	1240	153	41.	17.3	6965.5	*	1	2100	253	24.	3.0	6960.4
1	0425	54	0.	.0	6956.0	*	1	1245	154	41.	17.1	6965.5	*	1	2105	254	23.	2.9	6960.4
1	0430	55	0.	.0	6956.0	*	1	1250	155	41.	17.0	6965.4	*	1	2110	255	23.	2.8	6960.3
1	0435	56	0.	.0	6956.0	*	1	1255	156	41.	16.8	6965.4	*	1	2115	256	23.	2.6	6960.3
1	0440	57	0.	.0	6956.0	*	1	1300	157	41.	16.6	6965.3	*	1	2120	257	23.	2.5	6960.3
1	0445	58	0.	.0	6956.0	*	1	1305	158	40.	16.5	6965.2	*	1	2125	258	23.	2.4	6960.2
1	0450	59	0.	.0	6956.0	*	1	1310	159	40.	16.3	6965.2	*	1	2130	259	22.	2.3	6960.2
1	0455	60	0.	.0	6956.0	*	1	1315	160	40.	16.1	6965.1	*	1	2135	260	22.	2.2	6960.1
1	0500	61	0.	.0	6956.0	*	1	1320	161	40.	15.9	6965.1	*	1	2140	261	22.	2.1	6960.1
1	0505	62	0.	.0	6956.0	*	1	1325	162	40.	15.8	6965.0	*	1	2145	262	22.	2.0	6960.1
1	0510	63	0.	.0	6956.0	*	1	1330	163	40.	15.6	6964.9	*	1	2150	263	21.	1.9	6960.0
1	0515	64	0.	.0	6956.0	*	1	1335	164	39.	15.4	6964.9	*	1	2155	264	21.	1.8	6959.9
1	0520	65	0.	.0	6956.1	*	1	1340	165	39.	15.3	6964.8	*	1	2200	265	20.	1.6	6959.8
1	0525	66	0.	.1	6957.3	*	1	1345	166	39.	15.1	6964.7	*	1	2205	266	20.	1.5	6959.7
1	0530	67	4.	.3	6958.3	*	1	1350	167	39.	14.9	6964.7	*	1	2210	267	19.	1.5	6959.6
1	0535	68	17.	1.1	6959.2	*	1	1355	168	39.	14.8	6964.6	*	1	2215	268	18.	1.4	6959.5
1	0540	69	23.	2.9	6960.4	*	1	1400	169	38.	14.6	6964.6	*	1	2220	269	18.	1.3	6959.4
1	0545	70	28.	6.0	6961.5	*	1	1405	170	38.	14.4	6964.5	*	1	2225	270	17.	1.2	6959.3
1	0550	71	34.	10.3	6963.0	*	1	1410	171	38.	14.2	6964.4	*	1	2230	271	17.	1.1	6959.2
1	0555	72	39.	14.9	6964.7	*	1	1415	172	38.	14.1	6964.4	*	1	2235	272	16.	1.1	6959.1
1	0600	73	43.	18.8	6966.0	*	1	1420	173	38.	13.9	6964.3	*	1	2240	273	15.	1.0	6959.0
1	0605	74	44.	21.5	6966.5	*	1	1425	174	38.	13.7	6964.3	*	1	2245	274	14.	.9	6959.0
1	0610	75	45.	23.3	6966.8	*	1	1430	175	37.	13.6	6964.2	*	1	2250	275	13.	.9	6958.9
1	0615	76	45.	24.4	6967.0	*	1	1435	176	37.	13.4	6964.1	*	1	2255	276	13.	.8	6958.8
1	0620	77	46.	25.2	6967.1	*	1	1440	177	37.	13.3	6964.1	*	1	2300	277	12.	.8	6958.8
1	0625	78	46.	25.8	6967.2	*	1	1445	178	37.	13.1	6964.0	*	1	2305	278	11.	.7	6958.7
1	0630	79	46.	26.2	6967.3	*	1	1450	179	37.	12.9	6964.0	*	1	2310	279	10.	.7	6958.7
1	0635	80	46.	26.5	6967.3	*	1	1455	180	37.	12.8	6963.9	*	1	2315	280	10.	.7	6958.7
1	0640	81	46.	26.8	6967.4	*	1	1500	181	36.	12.6	6963.9	*	1	2320	281	9.	.6	6958.6
1	0645	82	46.	26.9	6967.4	*	1	1505	182	36.	12.4	6963.8	*	1	2325	282	9.	.6	6958.6
1	0650	83	46.	27.1	6967.4	*	1	1510	183	36.	12.3	6963.7	*	1	2330	283	9.	.6	6958.6
1	0655	84	46.	27.2	6967.4	*	1	1515	184	36.	12.1	6963.7	*	1	2335	284	9.	.6	6958.6
1	0700	85	46.	27.3	6967.5	*	1	1520	185	36.	11.9	6963.6	*	1	2340	285	9.	.6	6958.6
1	0705	86	46.	27.3	6967.5	*	1	1525	186	35.	11.8	6963.6	*	1	2345	286	9.	.6	6958.6
1	0710	87	46.	27.3	6967.5	*	1	1530	187	35.	11.6	6963.5	*	1	2350	287	8.	.6	6958.6
1	0715	88	46.	27.3	6967.5	*	1	1535	188	35.	11.5	6963.4	*	1	2355	288	8.	.6	6958.6
1	0720	89	46.	27.3	6967.5	*	1	1540	189	35.	11.3	6963.4	*	2	0000	289	7.	.5	6958.5
1	0725	90	46.	27.3	6967.5	*	1	1545	190	35.	11.1	6963.3	*	2	0000	290	7.	.5	6958.5

1	0730	91	46.	27.2	6967.5	*	1	1550	191	35.	11.0	6963.3	*	2	0010	291	6.	.4	6958.4
1	0735	92	46.	27.2	6967.5	*	1	1555	192	34.	10.8	6963.2	*	2	0015	292	5.	.4	6958.4
1	0740	93	46.	27.2	6967.4	*	1	1600	193	34.	10.7	6963.2	*	2	0020	293	5.	.4	6958.3
1	0745	94	46.	27.1	6967.4	*	1	1605	194	34.	10.5	6963.1	*	2	0025	294	4.	.4	6958.3
1	0750	95	46.	27.1	6967.4	*	1	1610	195	34.	10.3	6963.0	*	2	0030	295	4.	.3	6958.3
1	0755	96	46.	27.1	6967.4	*	1	1615	196	34.	10.2	6963.0	*	2	0035	296	4.	.3	6958.2
1	0800	97	46.	27.0	6967.4	*	1	1620	197	34.	10.0	6962.9	*	2	0040	297	3.	.3	6958.2
1	0805	98	46.	26.9	6967.4	*	1	1625	198	33.	9.9	6962.9	*	2	0045	298	3.	.3	6958.2
1	0810	99	46.	26.8	6967.4	*	1	1630	199	33.	9.7	6962.8	*	2	0050	299	3.	.2	6958.2
1	0815	100	46.	26.6	6967.4	*	1	1635	200	33.	9.6	6962.8	*	2	0055	300	2.	.2	6958.2

PEAK FLOW		TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.92-HR
46.	7.17	(INCHES)	45.	26.	25.	25.
		(AC-FT)	.508	1.192	1.192	1.192
			22.	52.	52.	52.
PEAK STORAGE		TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	(AC-FT)	6-HR	24-HR	72-HR	24.92-HR
27.	7.17		24.	10.	10.	10.
PEAK STAGE		TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	(FEET)	6-HR	24-HR	72-HR	24.92-HR
6967.47	7.17		6966.93	6961.99	6961.77	6961.77
CUMULATIVE AREA =			.93 SQ MI			

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

* *

283 KK * DF/LP *

1	0555	72	85.	7.2	6801.0	*	1	1415	172	63.	3.3	6795.1	*	1	2235	272	32.	-1	6790.0
1	0600	73	89.	12.2	6802.1	*	1	1420	173	62.	3.2	6795.0	*	1	2240	273	32.	-1	6790.0
1	0605	74	91.	14.4	6803.0	*	1	1425	174	62.	3.2	6794.8	*	1	2245	274	32.	-1	6790.0
1	0610	75	93.	15.9	6803.5	*	1	1430	175	61.	3.1	6794.7	*	1	2250	275	32.	-1	6790.0
1	0615	76	94.	16.9	6803.9	*	1	1435	176	60.	3.0	6794.6	*	1	2255	276	32.	-1	6790.0
1	0620	77	95.	17.5	6804.1	*	1	1440	177	60.	2.9	6794.4	*	1	2300	277	32.	-1	6790.0
1	0625	78	95.	17.9	6804.2	*	1	1445	178	59.	2.8	6794.3	*	1	2305	278	32.	-1	6790.0
1	0630	79	95.	18.2	6804.3	*	1	1450	179	59.	2.7	6794.2	*	1	2310	279	32.	-1	6790.0
1	0635	80	95.	18.4	6804.3	*	1	1455	180	58.	2.6	6794.0	*	1	2315	280	32.	-1	6790.0
1	0640	81	95.	18.5	6804.3	*	1	1500	181	57.	2.5	6793.9	*	1	2320	281	32.	-1	6790.0
1	0645	82	95.	18.5	6804.3	*	1	1505	182	57.	2.5	6793.8	*	1	2325	282	32.	-1	6790.0
1	0650	83	95.	18.5	6804.3	*	1	1510	183	56.	2.4	6793.7	*	1	2330	283	32.	-1	6790.0
1	0655	84	95.	18.5	6804.3	*	1	1515	184	56.	2.3	6793.6	*	1	2335	284	32.	-1	6790.0
1	0700	85	95.	18.5	6804.3	*	1	1520	185	55.	2.2	6793.5	*	1	2340	285	32.	-1	6790.0
1	0705	86	95.	18.4	6804.3	*	1	1525	186	55.	2.2	6793.4	*	1	2345	286	32.	-1	6790.0
1	0710	87	95.	18.4	6804.3	*	1	1530	187	54.	2.1	6793.2	*	1	2350	287	32.	-1	6790.0
1	0715	88	95.	18.3	6804.3	*	1	1535	188	53.	2.0	6793.1	*	1	2355	288	32.	-1	6790.0
1	0720	89	95.	18.2	6804.2	*	1	1540	189	53.	2.0	6793.0	*	2	0000	289	32.	-1	6790.0
1	0725	90	95.	18.0	6804.2	*	1	1545	190	52.	1.9	6792.9	*	2	0005	290	32.	-1	6790.0
1	0730	91	95.	17.9	6804.2	*	1	1550	191	52.	1.9	6792.9	*	2	0010	291	32.	-1	6790.0
1	0735	92	95.	17.8	6804.2	*	1	1555	192	51.	1.8	6792.8	*	2	0015	292	32.	-1	6790.0
1	0740	93	95.	17.7	6804.1	*	1	1600	193	51.	1.7	6792.7	*	2	0020	293	32.	-1	6790.0
1	0745	94	95.	17.6	6804.1	*	1	1605	194	51.	1.7	6792.6	*	2	0025	294	32.	-1	6790.0
1	0750	95	95.	17.4	6804.1	*	1	1610	195	50.	1.6	6792.5	*	2	0030	295	32.	-1	6790.0
1	0755	96	95.	17.3	6804.0	*	1	1615	196	50.	1.6	6792.4	*	2	0035	296	32.	-1	6790.0
1	0800	97	94.	17.1	6804.0	*	1	1620	197	49.	1.5	6792.4	*	2	0040	297	32.	-1	6790.0
1	0805	98	94.	17.0	6803.9	*	1	1625	198	49.	1.5	6792.3	*	2	0045	298	32.	-1	6790.0
1	0810	99	94.	16.8	6803.9	*	1	1630	199	48.	1.4	6792.2	*	2	0050	299	32.	-1	6790.0
1	0815	100	94.	16.6	6803.8	*	1	1635	200	48.	1.4	6792.1	*	2	0055	300	32.	-1	6790.0

PEAK FLOW + (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
95.	6.83	(CFS)	91.	55.	54.	54.
		(INCHES)	.620	1.501	1.535	1.535
		(AC-FT)	45.	109.	111.	111.

PEAK STORAGE + (AC-FT)	TIME (HR)		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
19.	6.83		14.	4.	4.	4.

PEAK STAGE + (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
6804.34	6.83		6802.82	6794.55	6794.38	6794.38

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				HOUR	24-HOUR	72-HOUR			

+		SBEL-2	27.	5.75	3.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	26.	5.83	3.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	178.	5.83	59.	31.	30.	.94
	HYDROGRAPH AT							
+		SBEL-3	56.	5.75	6.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	55.	5.75	6.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	232.	5.75	65.	33.	32.	.97
	HYDROGRAPH AT							
+		SBEL-4	41.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	39.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	271.	5.75	69.	34.	33.	1.00
	HYDROGRAPH AT							
+		SBEL-5	54.	5.75	5.	2.	2.	.03
	ROUTED TO							
+		DP-1EL	52.	5.83	5.	2.	2.	.03
	2 COMBINED AT							
+		DP-1EL	321.	5.75	74.	36.	35.	1.03
	HYDROGRAPH AT							
+		SBEL-7	44.	5.75	4.	1.	1.	.03
	ROUTED TO							
+		DP-1EL	43.	5.75	4.	1.	1.	.03
	2 COMBINED AT							
+		DP-1EL	364.	5.75	78.	37.	36.	1.06
	ROUTED TO							
+		DP-2EL	357.	5.92	77.	37.	36.	1.06
	HYDROGRAPH AT							
+		SBEL-8	23.	5.83	2.	1.	1.	.03
	ROUTED TO							
+		DP-2EL	24.	6.08	3.	1.	1.	.03
	2 COMBINED AT							
+		DP-2EL	357.	5.92	80.	38.	37.	1.09
	HYDROGRAPH AT							
+		SBEL-9	61.	5.83	6.	2.	2.	.07
	ROUTED TO							
+		DP-2EL	58.	5.92	6.	2.	2.	.07
	2 COMBINED AT							
+		DP-2EL	415.	5.92	86.	40.	39.	1.16
	HYDROGRAPH AT							

+		SBEL10	37.	5.75	4.	1.	1.	.04		
	2 COMBINED AT									
+		DP-2EL	436.	5.92	89.	41.	40.	1.21		
	HYDROGRAPH AT									
+		SBEL11	69.	5.75	7.	2.	2.	.05		
	ROUTED TO									
+		DP-2EL	70.	5.92	7.	2.	2.	.05		
	2 COMBINED AT									
+		DP-2EL	506.	5.92	97.	44.	42.	1.25		
	HYDROGRAPH AT									
+		SBEL12	93.	5.83	10.	3.	3.	.11		
	2 COMBINED AT									
+		DP-2EL	587.	5.83	106.	47.	45.	1.36		
	ROUTED TO									
+		DF/LP	95.	6.83	91.	55.	54.	1.36		
+									6804.34	6.83
	ROUTED TO									
+		DF-1EC	95.	6.83	91.	55.	54.	1.36		
	HYDROGRAPH AT									
+		SBEC-1	16.	5.75	1.	0.	0.	.01		
	HYDROGRAPH AT									
+		SBEC-2	14.	5.83	1.	0.	0.	.03		
	HYDROGRAPH AT									
+		SBEC-3	30.	5.83	3.	1.	1.	.05		

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

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	FAIRFAX CREEK DRAINAGE BASIN									
2	ID	HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITHOUT UPPER POND AND									
3	ID	DEVELOPED LOWER POND AREA WITH LOWER POND ENLARGED									
4	ID	HEC1 (SCS) 10-YEAR RUNOFF (FCS6.DAT)									
	*DIAGRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	3.0								
8	PP	.	.								

6A

114 KM RUNOFF FROM SBEL-1
 115 BA 0.0282
 116 PR 1
 117 PW 1
 118 PT 2
 119 PW 1
 120 LS 0 75.0
 121 UD 0.14

122 KK DP-1EL
 123 KM ROUTE SBEL-1 TO DP-1EL
 124 RK 1600 0.0380 0.016 0 TRAP 10 3

125 KK DP-1EL
 126 KM COMBINE FLOWS AT DP-1EL
 127 HC 2

128 KK SBEL-2
 129 KM RUNOFF FROM SBEL-2
 130 BA 0.0251
 131 PR 1
 132 PW 1
 133 PT 2
 134 PW 1
 135 LS 0 80.2
 136 UD 0.13

HEC-1 INPUT

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

137 KK DP-1EL
 138 KM ROUTE SBEL-2 TO DP-1EL
 139 RK 2000 0.0400 0.016 0 TRAP 8 10

140 KK DP-1EL
 141 KM COMBINE FLOWS AT DP-1EL
 142 HC 2

143 KK SBEL-3
 144 KM RUNOFF FROM SBEL-3
 145 BA 0.0320
 146 PR 1
 147 PW 1
 148 PT 2
 149 PW 1
 150 LS 0 90.0
 151 UD 0.12

152 KK DP-1EL
 153 KM ROUTE SBEL-3 TO DP-1EL
 154 RK 1000 0.0300 0.016 0 TRAP 8 10

155 KK DP-1EL
 156 KM COMBINE FLOWS AT DP-1EL
 157 HC 2

158 KK SBEL-4
 159 KM RUNOFF FROM SBEL-4
 160 BA 0.0289
 161 PR 1
 162 PW 1
 163 PT 2
 164 PW 1
 165 LS 0 85.0
 166 UD 0.12

167	KK	DP-1EL							
168	KM	ROUTE SBEL-4 TO DP-1EL							
169	RK	1000 0.0500 0.016	0	TRAP	8	10			
170	KK	DP-1EL							
171	KM	COMBINE FLOWS AT DP-1EL							
172	HC	2							
173	KK	SBEL-5							
174	KM	RUNOFF FROM SBEL-5							
175	BA	0.0334							
176	PR	1							
177	PW	1							
178	PT	2							
179	PW	1							
180	LS	0 88.0							
181	UD	0.12							

HEC-1 INPUT

PAGE 5

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

182	KK	DP-1EL							
183	KM	ROUTE SBEL-5 TO DP-1EL							
184	RK	2200 0.0360 0.016	0	TRAP	8	10			
185	KK	DP-1EL							
186	KM	COMBINE FLOWS AT DP-1EL							
187	HC	2							
188	KK	SBEL-7							
189	KM	RUNOFF FROM SBEL-7							
190	BA	0.0294							
191	PR	1							
192	PW	1							
193	PT	2							
194	PW	1							
195	LS	0 86.1							
196	UD	0.12							
197	KK	DP-1EL							
198	KM	ROUTE SBEL-7 TO DP-1EL							
199	RK	700 0.0710 0.016	0	TRAP	8	10			
200	KK	DP-1EL							
201	KM	COMBINE FLOWS AT DP-1EL							
202	HC	2							
203	KK	DP-2EL							
204	KM	ROUTE DP-1EL TO DP-2EL							
205	RK	3900 0.0240 0.045	0	TRAP	10	3			
206	KK	SBEL-8							
207	KM	RUNOFF FROM SBEL-8							
208	BA	0.0302							
209	PR	1							
210	PW	1							
211	PT	2							
212	PW	1							
213	LS	0 75.0							
214	UD	0.13							
215	KK	DP-2EL							
216	KM	ROUTE SBEL-8 TO DP-2EL							
217	RK	2900 0.0250 0.045	0	TRAP	10	3			

270 LS 0 77.4
 271 UD 0.16

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
272	KK	DP-2EL									
273	KM	COMBINE FLOWS AT DP-2EL									
274	HC	2									
275	KK	DF/LP									
276	KD	2									
277	KM	ROUTE FLOW THROUGH DETENTION FACILITY/LOWER POND (DF/LP)									
278	RS	1	STOR	0							
279	SV	0.0	12.0	30.0	46.0	55.0	73.0	100.0	115.0	120.0	135.0
280	SE	6790.0	6800.0	6804.0	6808.0	6810.0	6812.0	6816.0	6818.0	6818.5	6820.0
281	SL	6788.0	4.91	0.60	0.50						
282	SS	6818.5									
283	KK	DP-1EC									
284	KM	ROUTE DF/LP TO DP-1EC									
285	RK	415	0.0250	0.015	0	CIRC	2.5				
286	KM	FAIRFAX CREEK OUTFALL TO COTTONWOOD CREEK									
287	KK	SBEC-1									
288	KM	RUNOFF FROM SBEC-1									
289	BA	0.0138									
290	PR	1									
291	PW	1									
292	PT	2									
293	FW	1									
294	LS	0	80.0								
295	UD	0.11									
296	KK	SBEC-2									
297	KM	RUNOFF FROM BASIN SBEC-2									
298	BA	0.0263									
299	PR	1									
300	PW	1									
301	PT	2									
302	FW	1									
303	LS	0	69.0								
304	UD	0.13									
305	KK	SBEC-3									
306	KM	RUNOFF FROM SBEC-3									
307	BA	0.0470									
308	PR	1									
309	FW	1									
310	PT	2									
311	FW	1									
312	LS	0	72.0								
313	UD	0.15									
314	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

20 SBEC-1
 V
 V
 29 DP-1EU

32	.	SBEU-2	.
	.		.
41	DP-1EU.....		.
	.		.
44	.	SBEU-3	.
	.	∨	.
	.	∨	.
53	.	DP-1EU	.
	.		.
56	DP-1EU.....		.
	.		.
59	.	SBEU-4	.
	.		.
68	DP-1EU.....		.
	.		.
71	.	SBEU-5	.
	.		.
80	DP-1EU.....		.
	.		.
83	.	SBEU-6	.
	.	∨	.
	.	∨	.
92	.	DP-1EU	.
	.		.
95	DP-1EU.....		.
	∨		.
	∨		.
98	DP-1EL		.
	.		.
101	.	SBEL-6	.
	.		.
110	DP-1EL.....		.
	.		.
113	.	SBEL-1	.
	.	∨	.
	.	∨	.
122	.	DP-1EL	.
	.		.
125	DP-1EL.....		.
	.		.
128	.	SBEL-2	.
	.	∨	.
	.	∨	.
137	.	DP-1EL	.
	.		.
140	DP-1EL.....		.
	.		.
143	.	SBEL-3	.

	.	v
	.	v
152	.	DP-1EL
	.	.
155	DP-1EL.....	.
	.	.
158	.	SBEL-4
	.	v
	.	v
167	.	DP-1EL
	.	.
170	DP-1EL.....	.
	.	.
173	.	SBEL-5
	.	v
	.	v
182	.	DP-1EL
	.	.
185	DP-1EL.....	.
	.	.
188	.	SBEL-7
	.	v
	.	v
197	.	DP-1EL
	.	.
200	DP-1EL.....	.
	.	v
	.	v
203	DP-2EL	.
	.	.
206	.	SBEL-8
	.	v
	.	v
215	.	DP-2EL
	.	.
218	DP-2EL.....	.
	.	.
221	.	SBEL-9
	.	v
	.	v
230	.	DP-2EL
	.	.
233	DP-2EL.....	.
	.	.
236	.	SBEL10
	.	.
245	DP-2EL.....	.
	.	.
248	.	SBEL11
	.	v
	.	v
257	.	DP-2EL


```

      .
      .
260  DP-2EL.....
      .
263      SBEL12
      .
272  DP-2EL.....
      .
      V
275  DF/LP
      .
      V
283  DP-1EC
      .
287      SBEC-1
      .
296      SBEC-2
      .
305      SBEC-3

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR DEVELOPED UPPER POND AREA WITHOUT UPPER POND AND
 DEVELOPED LOWER POND AREA WITH LOWER POND ENLARGED
 HEC1 (SCS) 10-YEAR RUNOFF (FCS6.DAT)

4 IO OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

SPWID .00 SPILLWAY WIDTH
 COBW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	36.42	40.03	44.43	49.92	56.95	66.29	79.29	98.64	130.48
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6805.43	6818.50

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.45	1.04	1.84	2.96	4.57	7.05	11.12	12.00	30.00
OUTFLOW	33.41	36.42	40.03	44.43	49.92	56.95	66.29	79.29	81.85	94.51
ELEVATION	6790.00	6790.38	6790.87	6791.54	6792.46	6793.81	6795.87	6799.26	6800.00	6804.00

STORAGE	35.72	46.00	55.00	73.00	100.00	115.00	120.00	135.00		
OUTFLOW	98.64	105.66	110.82	115.75	125.02	129.41	130.48	133.65		
ELEVATION	6805.43	6808.00	6810.00	6812.00	6816.00	6818.00	6818.50	6820.00		

HYDROGRAPH AT STATION DF/LP

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	33.	.0	6790.0	*	1		0820	101	104.	43.0	6807.3	*	1		1640	201	51.	3.3	6792.8
1		0005	2	33.	-.1	6790.0	*	1		0825	102	103.	42.6	6807.1	*	1		1645	202	51.	2.9	6792.6
1		0010	3	33.	-.1	6790.0	*	1		0830	103	103.	42.2	6807.0	*	1		1650	203	50.	2.9	6792.4
1		0015	4	33.	-.1	6790.0	*	1		0835	104	103.	41.7	6806.9	*	1		1655	204	49.	2.7	6792.2
1		0020	5	33.	-.1	6790.0	*	1		0840	105	102.	41.3	6806.8	*	1		1700	205	48.	2.5	6792.1
1		0025	6	33.	-.1	6790.0	*	1		0845	106	102.	40.9	6806.7	*	1		1705	206	47.	2.3	6791.9
1		0030	7	33.	-.1	6790.0	*	1		0850	107	102.	40.4	6806.6	*	1		1710	207	46.	2.1	6791.8
1		0035	8	33.	-.1	6790.0	*	1		0855	108	102.	40.0	6806.5	*	1		1715	208	45.	1.9	6791.6
1		0040	9	33.	-.1	6790.0	*	1		0900	109	101.	39.5	6806.4	*	1		1720	209	44.	1.8	6791.5
1		0045	10	33.	-.1	6790.0	*	1		0905	110	101.	39.1	6806.3	*	1		1725	210	43.	1.6	6791.3
1		0050	11	33.	-.1	6790.0	*	1		0910	111	101.	38.6	6806.2	*	1		1730	211	42.	1.4	6791.2
1		0055	12	33.	-.1	6790.0	*	1		0915	112	100.	38.2	6806.0	*	1		1735	212	41.	1.3	6791.1
1		0100	13	33.	-.1	6790.0	*	1		0920	113	100.	37.7	6805.9	*	1		1740	213	40.	1.1	6790.9
1		0105	14	33.	-.1	6790.0	*	1		0925	114	100.	37.3	6805.8	*	1		1745	214	40.	1.0	6790.8
1		0110	15	33.	-.1	6790.0	*	1		0930	115	99.	36.9	6805.7	*	1		1750	215	39.	.8	6790.7
1		0115	16	33.	-.1	6790.0	*	1		0935	116	99.	36.4	6805.6	*	1		1755	216	38.	.7	6790.6
1		0120	17	33.	-.1	6790.0	*	1		0940	117	99.	36.0	6805.5	*	1		1800	217	37.	.6	6790.5
1		0125	18	33.	-.1	6790.0	*	1		0945	118	99.	35.6	6805.4	*	1		1805	218	36.	.5	6790.4
1		0130	19	33.	-.1	6790.0	*	1		0950	119	98.	35.2	6805.3	*	1		1810	219	36.	.3	6790.3
1		0135	20	33.	-.1	6790.0	*	1		0955	120	98.	34.7	6805.2	*	1		1815	220	35.	.2	6790.2
1		0140	21	33.	-.1	6790.0	*	1		1000	121	98.	34.3	6805.1	*	1		1820	221	34.	.1	6790.1
1		0145	22	33.	-.1	6790.0	*	1		1005	122	97.	33.9	6805.0	*	1		1825	222	34.	.0	6790.0
1		0150	23	33.	-.1	6790.0	*	1		1010	123	97.	33.4	6804.9	*	1		1830	223	33.	-.1	6790.0
1		0155	24	33.	-.1	6790.0	*	1		1015	124	97.	33.0	6804.8	*	1		1835	224	33.	-.1	6790.0
1		0200	25	33.	-.1	6790.0	*	1		1020	125	96.	32.6	6804.6	*	1		1840	225	33.	-.1	6790.0
1		0205	26	33.	-.1	6790.0	*	1		1025	126	96.	32.1	6804.5	*	1		1845	226	33.	-.1	6790.0
1		0210	27	33.	-.1	6790.0	*	1		1030	127	96.	31.6	6804.4	*	1		1850	227	33.	-.1	6790.0
1		0215	28	33.	-.1	6790.0	*	1		1035	128	95.	31.2	6804.3	*	1		1855	228	33.	-.1	6790.0
1		0220	29	33.	-.1	6790.0	*	1		1040	129	95.	30.7	6804.2	*	1		1900	229	33.	-.1	6790.0
1		0225	30	33.	-.1	6790.0	*	1		1045	130	95.	30.3	6804.1	*	1		1905	230	33.	-.1	6790.0
1		0230	31	33.	-.1	6790.0	*	1		1050	131	94.	29.8	6804.0	*	1		1910	231	33.	-.1	6790.0
1		0235	32	33.	-.1	6790.0	*	1		1055	132	94.	29.4	6803.9	*	1		1915	232	33.	-.1	6790.0
1		0240	33	33.	-.1	6790.0	*	1		1100	133	94.	28.9	6803.8	*	1		1920	233	33.	-.1	6790.0
1		0245	34	33.	-.1	6790.0	*	1		1105	134	93.	28.4	6803.7	*	1		1925	234	33.	-.1	6790.0
1		0250	35	33.	-.1	6790.0	*	1		1110	135	93.	28.0	6803.6	*	1		1930	235	33.	-.1	6790.0
1		0255	36	33.	-.1	6790.0	*	1		1115	136	93.	27.5	6803.5	*	1		1935	236	33.	-.1	6790.0

1	0300	37	33.	-1	6790.0	*	1	1120	137	92.	27.1	6803.4	*	1	1940	237	33.	-1	6790.0
1	0305	38	33.	-1	6790.0	*	1	1125	138	92.	26.7	6803.3	*	1	1945	238	33.	-1	6790.0
1	0310	39	33.	-1	6790.0	*	1	1130	139	92.	26.2	6803.2	*	1	1950	239	33.	-1	6790.0
1	0315	40	33.	-1	6790.0	*	1	1135	140	92.	25.8	6803.1	*	1	1955	240	33.	-1	6790.0
1	0320	41	33.	-1	6790.0	*	1	1140	141	91.	25.3	6803.0	*	1	2000	241	33.	-1	6790.0
1	0325	42	33.	-1	6790.0	*	1	1145	142	91.	24.9	6802.9	*	1	2005	242	33.	-1	6790.0
1	0330	43	33.	-1	6790.0	*	1	1150	143	91.	24.5	6802.8	*	1	2010	243	33.	-1	6790.0
1	0335	44	33.	-1	6790.0	*	1	1155	144	90.	24.0	6802.7	*	1	2015	244	33.	-1	6790.0
1	0340	45	33.	-1	6790.0	*	1	1200	145	90.	23.6	6802.6	*	1	2020	245	33.	-1	6790.0
1	0345	46	33.	-1	6790.0	*	1	1205	146	90.	23.2	6802.5	*	1	2025	246	33.	-1	6790.0
1	0350	47	33.	-1	6790.0	*	1	1210	147	89.	22.8	6802.4	*	1	2030	247	33.	-1	6790.0
1	0355	48	33.	-1	6790.0	*	1	1215	148	89.	22.3	6802.3	*	1	2035	248	33.	-1	6790.0
1	0400	49	33.	-1	6790.0	*	1	1220	149	89.	21.9	6802.2	*	1	2040	249	33.	-1	6790.0
1	0405	50	33.	-1	6790.0	*	1	1225	150	89.	21.5	6802.1	*	1	2045	250	33.	-1	6790.0
1	0410	51	33.	-1	6790.0	*	1	1230	151	88.	21.1	6802.0	*	1	2050	251	33.	-1	6790.0
1	0415	52	33.	-1	6790.0	*	1	1235	152	88.	20.7	6801.9	*	1	2055	252	33.	-1	6790.0
1	0420	53	33.	-1	6790.0	*	1	1240	153	88.	20.3	6801.8	*	1	2100	253	33.	-1	6790.0
1	0425	54	33.	-1	6790.0	*	1	1245	154	87.	19.9	6801.7	*	1	2105	254	33.	-1	6790.0
1	0430	55	33.	-1	6790.0	*	1	1250	155	87.	19.5	6801.7	*	1	2110	255	33.	-1	6790.0
1	0435	56	33.	-1	6790.0	*	1	1255	156	87.	19.1	6801.6	*	1	2115	256	33.	-1	6790.0
1	0440	57	33.	-1	6790.0	*	1	1300	157	87.	18.6	6801.5	*	1	2120	257	33.	-1	6790.0
1	0445	58	33.	-1	6790.0	*	1	1305	158	86.	18.2	6801.4	*	1	2125	258	33.	-1	6790.0
1	0450	59	33.	-1	6790.0	*	1	1310	159	86.	17.8	6801.3	*	1	2130	259	33.	-1	6790.0
1	0455	60	33.	-1	6790.0	*	1	1315	160	86.	17.4	6801.2	*	1	2135	260	33.	-1	6790.0
1	0500	61	33.	-1	6790.0	*	1	1320	161	85.	17.0	6801.1	*	1	2140	261	33.	-1	6790.0
1	0505	62	33.	-1	6790.0	*	1	1325	162	85.	16.6	6801.0	*	1	2145	262	33.	-1	6790.0
1	0510	63	33.	-1	6790.0	*	1	1330	163	85.	16.2	6800.9	*	1	2150	263	33.	-1	6790.0
1	0515	64	33.	-1	6790.0	*	1	1335	164	85.	15.8	6800.8	*	1	2155	264	33.	-1	6790.0
1	0520	65	33.	-1	6790.0	*	1	1340	165	84.	15.4	6800.8	*	1	2200	265	33.	-1	6790.0
1	0525	66	33.	-1	6790.0	*	1	1345	166	84.	15.0	6800.7	*	1	2205	266	33.	-1	6790.0
1	0530	67	33.	-1	6790.0	*	1	1350	167	84.	14.6	6800.6	*	1	2210	267	33.	-1	6790.0
1	0535	68	38.	7	6790.5	*	1	1355	168	83.	14.2	6800.5	*	1	2215	268	33.	-1	6790.0
1	0540	69	51.	3.1	6792.6	*	1	1400	169	83.	13.8	6800.4	*	1	2220	269	33.	-1	6790.0
1	0545	70	69.	7.8	6796.5	*	1	1405	170	83.	13.4	6800.3	*	1	2225	270	33.	-1	6790.0
1	0550	71	84.	14.6	6800.6	*	1	1410	171	83.	12.9	6800.2	*	1	2230	271	33.	-1	6790.0
1	0555	72	89.	22.4	6802.3	*	1	1415	172	82.	12.5	6800.1	*	1	2235	272	33.	-1	6790.0
1	0600	73	94.	29.8	6804.0	*	1	1420	173	82.	12.1	6800.0	*	1	2240	273	33.	-1	6790.0
1	0605	74	99.	35.7	6805.4	*	1	1425	174	81.	11.7	6799.8	*	1	2245	274	33.	-1	6790.0
1	0610	75	101.	39.6	6806.4	*	1	1430	175	80.	11.3	6799.5	*	1	2250	275	33.	-1	6790.0
1	0615	76	103.	42.0	6807.0	*	1	1435	176	79.	11.0	6799.1	*	1	2255	276	33.	-1	6790.0
1	0620	77	104.	43.5	6807.4	*	1	1440	177	78.	10.6	6798.8	*	1	2300	277	33.	-1	6790.0
1	0625	78	105.	44.6	6807.7	*	1	1445	178	76.	10.2	6798.5	*	1	2305	278	33.	-1	6790.0
1	0630	79	105.	45.4	6807.8	*	1	1450	179	75.	9.8	6798.2	*	1	2310	279	33.	-1	6790.0
1	0635	80	106.	45.9	6808.0	*	1	1455	180	74.	9.5	6797.9	*	1	2315	280	33.	-1	6790.0
1	0640	81	106.	46.3	6808.1	*	1	1500	181	73.	9.1	6797.6	*	1	2320	281	33.	-1	6790.0
1	0645	82	106.	46.5	6808.1	*	1	1505	182	72.	8.8	6797.3	*	1	2325	282	33.	-1	6790.0
1	0650	83	106.	46.6	6808.1	*	1	1510	183	71.	8.4	6797.0	*	1	2330	283	33.	-1	6790.0
1	0655	84	106.	46.7	6808.1	*	1	1515	184	70.	8.1	6796.8	*	1	2335	284	33.	-1	6790.0
1	0700	85	106.	46.7	6808.1	*	1	1520	185	69.	7.8	6796.5	*	1	2340	285	33.	-1	6790.0
1	0705	86	106.	46.6	6808.1	*	1	1525	186	68.	7.4	6796.2	*	1	2345	286	33.	-1	6790.0
1	0710	87	106.	46.5	6808.1	*	1	1530	187	67.	7.1	6795.9	*	1	2350	287	33.	-1	6790.0
1	0715	88	106.	46.4	6808.1	*	1	1535	188	65.	6.8	6795.7	*	1	2355	288	33.	-1	6790.0
1	0720	89	106.	46.2	6808.0	*	1	1540	189	64.	6.5	6795.4	*	2	0000	289	33.	-1	6790.0
1	0725	90	106.	46.0	6808.0	*	1	1545	190	63.	6.2	6795.2	*	2	0005	290	33.	-1	6790.0
1	0730	91	106.	45.8	6807.9	*	1	1550	191	62.	5.9	6794.9	*	2	0010	291	33.	-1	6790.0
1	0735	92	105.	45.6	6807.9	*	1	1555	192	61.	5.6	6794.7	*	2	0015	292	33.	-1	6790.0
1	0740	93	105.	45.3	6807.8	*	1	1600	193	60.	5.3	6794.4	*	2	0020	293	33.	-1	6790.0
1	0745	94	105.	45.1	6807.8	*	1	1605	194	59.	5.0	6794.2	*	2	0025	294	33.	-1	6790.0
1	0750	95	105.	44.9	6807.7	*	1	1610	195	58.	4.8	6794.0	*	2	0030	295	33.	-1	6790.0
1	0755	96	105.	44.6	6807.7	*	1	1615	196	57.	4.5	6793.8	*	2	0035	296	33.	-1	6790.0
1	0800	97	105.	44.4	6807.6	*	1	1620	197	56.	4.3	6793.6	*	2	0040	297	33.	-1	6790.0
1	0805	98	104.	44.1	6807.5	*	1	1625	198	55.	4.0	6793.3	*	2	0045	298	33.	-1	6790.0
1	0810	99	104.	43.8	6807.4	*	1	1630	199	53.	3.8	6793.1	*	2	0050	299	33.	-1	6790.0
1	0815	100	104.	43.4	6807.3	*	1	1635	200	52.	3.5	6793.0	*	2	0055	300	33.	-1	6790.0

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)	100.	59.	58.	58.
+ 106.	7.00	(INCHES)	.683	1.621	1.655	1.655
		(AC-FT)	50.	118.	120.	120.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)		38.	12.	12.	12.
+ 47.	7.00					

PEAK STAGE	TIME		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)		6805.94	6795.90	6795.68	6795.68
+ 6808.15	7.00					

CUMULATIVE AREA = 1.36 SQ MI

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	SBEU-1	140.	5.83	15.	5.	4.	.15		
+	ROUTED TO	DP-1EU	139.	5.92	14.	5.	4.	.15		
+	HYDROGRAPH AT	SBEU-2	202.	5.83	23.	7.	7.	.19		
+	2 COMBINED AT	DP-1EU	331.	5.83	38.	12.	11.	.33		
+	HYDROGRAPH AT	SBEU-3	116.	5.83	12.	4.	4.	.11		
+	ROUTED TO	DP-1EU	112.	5.92	12.	4.	4.	.11		
+	2 COMBINED AT	DP-1EU	441.	5.83	50.	16.	15.	.44		
+	HYDROGRAPH AT	SBEU-4	166.	5.83	20.	6.	6.	.20		
+	2 COMBINED AT	DP-1EU	607.	5.83	70.	22.	21.	.64		
+	HYDROGRAPH AT	SBEU-5	36.	5.83	4.	1.	1.	.07		

+	2 COMBINED AT	DP-1EU	643.	5.83	74.	23.	23.	.72
	HYDROGRAPH AT	SBEU-6	84.	5.83	10.	3.	3.	.11
+	ROUTED TO	DP-1EU	80.	5.83	10.	3.	3.	.11
+	2 COMBINED AT	DP-1EU	724.	5.83	83.	27.	26.	.83
+	ROUTED TO	DP-1EL	704.	5.92	83.	27.	26.	.83
+	HYDROGRAPH AT	SBEL-6	112.	5.75	12.	3.	3.	.06
+	2 COMBINED AT	DP-1EL	777.	5.83	95.	30.	29.	.89
+	HYDROGRAPH AT	SBEL-1	22.	5.83	2.	1.	1.	.03
+	ROUTED TO	DP-1EL	21.	5.83	2.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	798.	5.83	97.	31.	30.	.91
+	HYDROGRAPH AT	SBEL-2	27.	5.75	3.	1.	1.	.03
+	ROUTED TO	DP-1EL	26.	5.83	3.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	825.	5.83	100.	32.	30.	.94
+	HYDROGRAPH AT	SBEL-3	56.	5.75	6.	2.	2.	.03
+	ROUTED TO	DP-1EL	55.	5.75	6.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	875.	5.83	105.	33.	32.	.97
+	HYDROGRAPH AT	SBEL-4	41.	5.75	4.	1.	1.	.03
+	ROUTED TO	DP-1EL	39.	5.75	4.	1.	1.	.03
+	2 COMBINED AT	DP-1EL	913.	5.83	109.	35.	33.	1.00
+	HYDROGRAPH AT	SBEL-5	54.	5.75	5.	2.	2.	.03
+	ROUTED TO	DP-1EL	52.	5.83	5.	2.	2.	.03
+	2 COMBINED AT	DP-1EL	964.	5.83	115.	36.	35.	1.03

+	HYDROGRAPH AT	SBEL-7	44.	5.75	4.	1.	1.	.03		
+	ROUTED TO	DF-1EL	43.	5.75	4.	1.	1.	.03		
+	2 COMBINED AT	DF-1EL	1004.	5.83	119.	38.	36.	1.06		
+	ROUTED TO	DF-2EL	1000.	5.92	122.	38.	37.	1.06		
+	HYDROGRAPH AT	SBEL-8	23.	5.83	2.	1.	1.	.03		
+	ROUTED TO	DF-2EL	23.	5.92	2.	1.	1.	.03		
+	2 COMBINED AT	DF-2EL	1023.	5.92	124.	39.	38.	1.09		
+	HYDROGRAPH AT	SBEL-9	61.	5.83	6.	2.	2.	.07		
+	ROUTED TO	DF-2EL	59.	5.83	6.	2.	2.	.07		
+	2 COMBINED AT	DF-2EL	1080.	5.92	130.	41.	40.	1.16		
+	HYDROGRAPH AT	SBEL10	37.	5.75	4.	1.	1.	.04		
+	2 COMBINED AT	DF-2EL	1101.	5.92	134.	42.	41.	1.21		
+	HYDROGRAPH AT	SBEL11	69.	5.75	7.	2.	2.	.05		
+	ROUTED TO	DF-2EL	65.	5.92	7.	2.	2.	.05		
+	2 COMBINED AT	DF-2EL	1167.	5.92	141.	45.	43.	1.25		
+	HYDROGRAPH AT	SBEL12	93.	5.83	10.	3.	3.	.11		
+	2 COMBINED AT	DF-2EL	1237.	5.92	151.	48.	46.	1.36		
+	ROUTED TO	DF/LP	106.	7.00	100.	59.	58.	1.36		
+	ROUTED TO	DF-1EC	106.	7.00	100.	59.	58.	1.36	6808.15	7.00
+	HYDROGRAPH AT	SBEC-1	16.	5.75	1.	0.	0.	.01		
+	HYDROGRAPH AT	SBEC-2	14.	5.83	1.	0.	0.	.03		
+	HYDROGRAPH AT	SBEC-3	30.	5.83	3.	1.	1.	.05		

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

1

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID										
2	ID										
3	ID										
4	ID										
	*DIASRAM										
5	IT	5	0	0	300						
6	IO	5	1								
7	PG	2	3.0								
8	PG	1	0								
9	IN	15									
10	PC	.0005	.0015	.0030	.0045	.0060	.0080	.0100	.0120	.0143	.0165
11	PC	.0188	.0210	.0233	.0255	.0278	.0320	.0390	.0460	.0530	.0600
12	PC	.0750	.1000	.4000	.7000	.7250	.7500	.7650	.7800	.7900	.8000
13	PC	.8100	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600
14	PC	.8638	.8675	.8713	.8750	.8788	.8825	.8863	.8900	.8938	.8975
15	PC	.9013	.9050	.9083	.9115	.9148	.9180	.9210	.9240	.9270	.9300
16	PC	.9325	.9350	.9375	.9400	.9425	.9450	.9475	.9500	.9525	.9550
17	PC	.9575	.9600	.9625	.9650	.9675	.9700	.9725	.9750	.9775	.9800
18	PC	.9813	.9825	.9838	.9850	.9863	.9875	.9888	.9900	.9913	.9925
19	PC	.9938	.9950	.9963	.9975	1.0000					
20	KK	SBCC-1									
21	KM										
22	BA	0.0568									
23	FR	1									
24	PW	1									
25	PT	2									
26	PW	1									
27	LS	0	77.0								
28	UD	0.15									
29	KK	DP-1CC									
30	KM										
31	RK	3400	0.0320	0.016	0	TRAP	8	10			
32	KK	SBCC-2									
33	KM										
34	BA	0.0902									
35	FR	1									
36	PW	1									
37	PT	2									
38	PW	1									
39	LS	0	76.8								

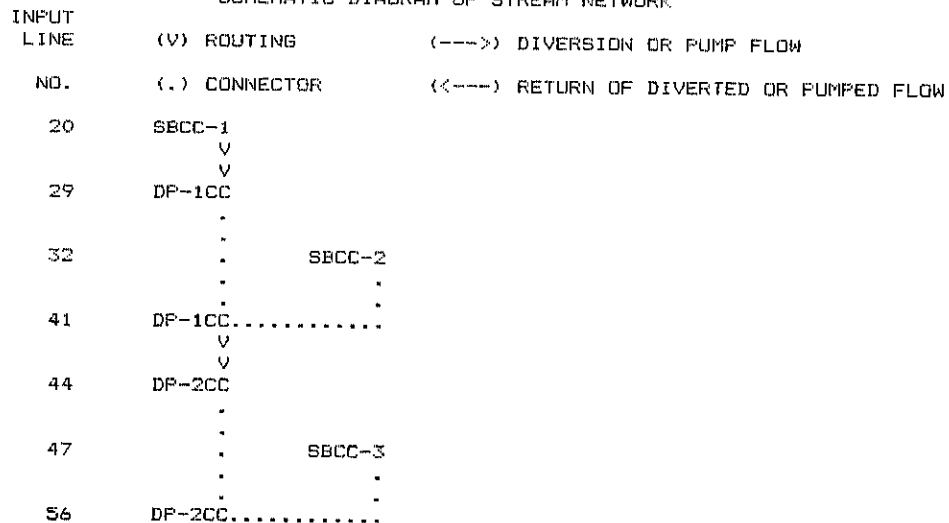
11A

40 UD 0.15
 41 KK DP-1CC
 42 KM COMBINE FLOWS AT DP-1CC
 43 HC 2
 44 KK DP-2CC
 45 KM ROUTE DP-1CC TO DP-2CC
 46 RK 4400 0.0340 0.016 0 TRAP 8 10
 HEC-1 INPUT

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

47 KK SBCC-3
 48 KM RUNOFF FROM SBCC-3
 49 BA 0.1316
 50 PR 1
 51 PW 1
 52 PT 2
 53 PW 1
 54 LS 0 79.9
 55 UD 0.18
 56 KK DP-2CC
 57 KO 2
 58 KO 2
 59 KM COMBINE FLOWS AT DP-2CC
 60 HC 2
 61 KM COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK
 62 ZZ

SCHMATIC DIAGRAM OF STREAM NETWORK



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

FAIRFAX CREEK DRAINAGE BASIN
 HYDROLOGIC MODEL FOR DEVELOPED COTTONWOOD CREEK BASIN "C"
 EAST OF FAIRFAX CREEK BASIN
 HEC1 (SCS) 10-YEAR RUNOFF (FC32.DAT)

6 IO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA

NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** **

 * *
 * DP-2CC *
 * *

57 KD OUTPUT CONTROL VARIABLES

IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

58 KD OUTPUT CONTROL VARIABLES

IPRNT 2 PRINT CONTROL
 IPLOT 1 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 COMBINE FLOWS AT DP-2CC
 COTTONWOOD CREEK BASIN "C" OUTFALL TO COTTONWOOD CREEK

60 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION DP-2CC
 SUM OF 2 HYDROGRAPHS

DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD

1	0000	1	0.	*	1	0615	76	54.	*	1	1230	151	6.	*	1	1845	226	4.
1	0005	2	0.	*	1	0620	77	44.	*	1	1235	152	6.	*	1	1850	227	4.
1	0010	3	0.	*	1	0625	78	37.	*	1	1240	153	6.	*	1	1855	228	4.
1	0015	4	0.	*	1	0630	79	31.	*	1	1245	154	6.	*	1	1900	229	4.
1	0020	5	0.	*	1	0635	80	26.	*	1	1250	155	5.	*	1	1905	230	4.
1	0025	6	0.	*	1	0640	81	24.	*	1	1255	156	5.	*	1	1910	231	4.
1	0030	7	0.	*	1	0645	82	22.	*	1	1300	157	5.	*	1	1915	232	4.
1	0035	8	0.	*	1	0650	83	21.	*	1	1305	158	5.	*	1	1920	233	4.
1	0040	9	0.	*	1	0655	84	19.	*	1	1310	159	5.	*	1	1925	234	4.
1	0045	10	0.	*	1	0700	85	18.	*	1	1315	160	5.	*	1	1930	235	4.
1	0050	11	0.	*	1	0705	86	16.	*	1	1320	161	5.	*	1	1935	236	4.
1	0055	12	0.	*	1	0710	87	15.	*	1	1325	162	5.	*	1	1940	237	4.
1	0100	13	0.	*	1	0715	88	15.	*	1	1330	163	5.	*	1	1945	238	4.
1	0105	14	0.	*	1	0720	89	14.	*	1	1335	164	5.	*	1	1950	239	4.
1	0110	15	0.	*	1	0725	90	14.	*	1	1340	165	5.	*	1	1955	240	4.
1	0115	16	0.	*	1	0730	91	14.	*	1	1345	166	5.	*	1	2000	241	3.
1	0120	17	0.	*	1	0735	92	14.	*	1	1350	167	5.	*	1	2005	242	3.
1	0125	18	0.	*	1	0740	93	14.	*	1	1355	168	5.	*	1	2010	243	3.
1	0130	19	0.	*	1	0745	94	14.	*	1	1400	169	5.	*	1	2015	244	2.
1	0135	20	0.	*	1	0750	95	14.	*	1	1405	170	5.	*	1	2020	245	2.
1	0140	21	0.	*	1	0755	96	13.	*	1	1410	171	5.	*	1	2025	246	2.
1	0145	22	0.	*	1	0800	97	11.	*	1	1415	172	5.	*	1	2030	247	2.
1	0150	23	0.	*	1	0805	98	10.	*	1	1420	173	5.	*	1	2035	248	2.
1	0155	24	0.	*	1	0810	99	9.	*	1	1425	174	5.	*	1	2040	249	2.
1	0200	25	0.	*	1	0815	100	8.	*	1	1430	175	4.	*	1	2045	250	2.
1	0205	26	0.	*	1	0820	101	8.	*	1	1435	176	4.	*	1	2050	251	2.
1	0210	27	0.	*	1	0825	102	8.	*	1	1440	177	4.	*	1	2055	252	2.
1	0215	28	0.	*	1	0830	103	7.	*	1	1445	178	4.	*	1	2100	253	2.
1	0220	29	0.	*	1	0835	104	7.	*	1	1450	179	4.	*	1	2105	254	2.
1	0225	30	0.	*	1	0840	105	7.	*	1	1455	180	4.	*	1	2110	255	2.
1	0230	31	0.	*	1	0845	106	7.	*	1	1500	181	4.	*	1	2115	256	2.
1	0235	32	0.	*	1	0850	107	7.	*	1	1505	182	4.	*	1	2120	257	2.
1	0240	33	0.	*	1	0855	108	7.	*	1	1510	183	4.	*	1	2125	258	2.
1	0245	34	0.	*	1	0900	109	7.	*	1	1515	184	4.	*	1	2130	259	2.
1	0250	35	0.	*	1	0905	110	7.	*	1	1520	185	4.	*	1	2135	260	2.
1	0255	36	0.	*	1	0910	111	7.	*	1	1525	186	4.	*	1	2140	261	2.
1	0300	37	0.	*	1	0915	112	7.	*	1	1530	187	4.	*	1	2145	262	2.
1	0305	38	0.	*	1	0920	113	7.	*	1	1535	188	4.	*	1	2150	263	2.
1	0310	39	0.	*	1	0925	114	7.	*	1	1540	189	4.	*	1	2155	264	2.
1	0315	40	0.	*	1	0930	115	7.	*	1	1545	190	4.	*	1	2200	265	2.
1	0320	41	0.	*	1	0935	116	7.	*	1	1550	191	4.	*	1	2205	266	2.
1	0325	42	0.	*	1	0940	117	7.	*	1	1555	192	4.	*	1	2210	267	2.
1	0330	43	0.	*	1	0945	118	7.	*	1	1600	193	4.	*	1	2215	268	2.
1	0335	44	0.	*	1	0950	119	7.	*	1	1605	194	4.	*	1	2220	269	2.
1	0340	45	0.	*	1	0955	120	7.	*	1	1610	195	4.	*	1	2225	270	2.
1	0345	46	0.	*	1	1000	121	7.	*	1	1615	196	4.	*	1	2230	271	2.
1	0350	47	0.	*	1	1005	122	6.	*	1	1620	197	4.	*	1	2235	272	2.
1	0355	48	0.	*	1	1010	123	6.	*	1	1625	198	4.	*	1	2240	273	2.
1	0400	49	0.	*	1	1015	124	6.	*	1	1630	199	4.	*	1	2245	274	2.
1	0405	50	0.	*	1	1020	125	6.	*	1	1635	200	4.	*	1	2250	275	2.
1	0410	51	0.	*	1	1025	126	6.	*	1	1640	201	4.	*	1	2255	276	2.
1	0415	52	0.	*	1	1030	127	6.	*	1	1645	202	4.	*	1	2300	277	2.
1	0420	53	0.	*	1	1035	128	5.	*	1	1650	203	4.	*	1	2305	278	2.
1	0425	54	0.	*	1	1040	129	5.	*	1	1655	204	4.	*	1	2310	279	2.
1	0430	55	0.	*	1	1045	130	5.	*	1	1700	205	4.	*	1	2315	280	2.
1	0435	56	0.	*	1	1050	131	5.	*	1	1705	206	4.	*	1	2320	281	2.
1	0440	57	0.	*	1	1055	132	5.	*	1	1710	207	4.	*	1	2325	282	2.
1	0445	58	0.	*	1	1100	133	5.	*	1	1715	208	4.	*	1	2330	283	2.
1	0450	59	0.	*	1	1105	134	5.	*	1	1720	209	4.	*	1	2335	284	2.
1	0455	60	0.	*	1	1110	135	5.	*	1	1725	210	4.	*	1	2340	285	2.
1	0500	61	0.	*	1	1115	136	5.	*	1	1730	211	4.	*	1	2345	286	2.
1	0505	62	0.	*	1	1120	137	5.	*	1	1735	212	4.	*	1	2350	287	2.
1	0510	63	0.	*	1	1125	138	5.	*	1	1740	213	4.	*	1	2355	288	2.
1	0515	64	0.	*	1	1130	139	5.	*	1	1745	214	4.	*	2	2350	287	1.
1	0520	65	0.	*	1	1135	140	5.	*	1	1750	215	4.	*	2	2350	287	1.

1	0525	66	5.	*	1	1140	141	5.	*	1	1755	216	4.	*	2	0010	291	1.
1	0530	67	22.	*	1	1145	142	5.	*	1	1800	217	4.	*	2	0015	292	0.
1	0535	68	58.	*	1	1150	143	5.	*	1	1805	218	4.	*	2	0020	293	0.
1	0540	69	121.	*	1	1155	144	5.	*	1	1810	219	4.	*	2	0025	294	0.
1	0545	70	199.	*	1	1200	145	5.	*	1	1815	220	4.	*	2	0030	295	0.
1	0550	71	245.	*	1	1205	146	6.	*	1	1820	221	4.	*	2	0035	296	0.
1	0555	72	218.	*	1	1210	147	6.	*	1	1825	222	4.	*	2	0040	297	0.
1	0600	73	155.	*	1	1215	148	5.	*	1	1830	223	4.	*	2	0045	298	0.
1	0605	74	101.	*	1	1220	149	5.	*	1	1835	224	4.	*	2	0050	299	0.
1	0610	75	71.	*	1	1225	150	5.	*	1	1840	225	4.	*	2	0055	300	0.
				*					*					*				

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
245.	5.83	27.	9.	8.	8.
		(INCHES) 13.	1.147	1.147	1.147
		(AC-FT)	17.	17.	17.
CUMULATIVE AREA =		.28 SQ MI			

1

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			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBCC-1	49.	5.83	5.	2.	2.	.06		
ROUTED TO	DP-1CC	47.	5.83	5.	2.	2.	.06		
HYDROGRAPH AT	SBCC-2	77.	5.83	8.	3.	2.	.09		
2 COMBINED AT	DP-1CC	125.	5.83	13.	4.	4.	.15		
ROUTED TO	DP-2CC	117.	5.83	13.	4.	4.	.15		
HYDROGRAPH AT	SBCC-3	128.	5.83	14.	4.	4.	.13		
2 COMBINED AT	DP-2CC	245.	5.83	27.	9.	8.	.28		

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

1

M.D.D.P. DRAWING