CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMW ATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HA VE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

BMPNUMBER: **YC003**

DATE VERIFIED: **August 26, 2016**

QUALITY ASSURANCE TECHNICIAN: **Charles E. Lovett II**

LOCATION: WILLIAMSBURG, VIRGINIA

Stormwater Division

MEMORANDUM

DATE: March 13, 2010

TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services

FROM: Jo Anna Ripley, Stormwater

PO: 270712

RE: Files Approved for Scanning

General File ID or BMP ID: YC003

PIN: 2321100001D

Subdivision, Tract, Business or Owner Name (if known): Candle Development

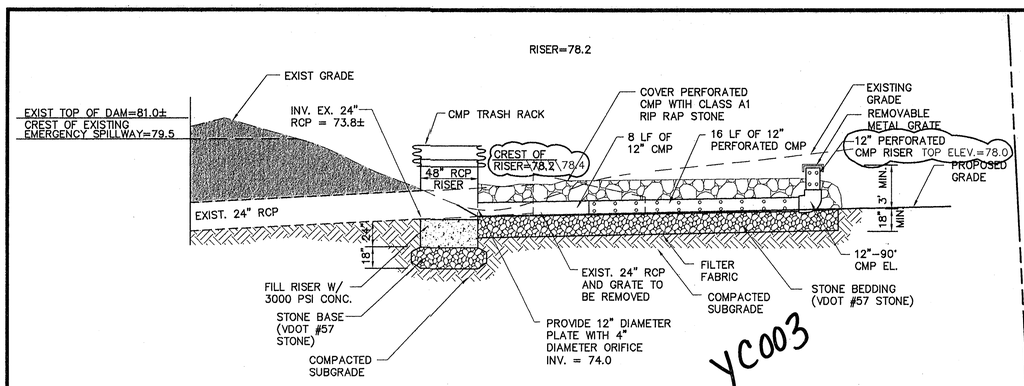
Property Description: Retail Unit

Site Address: 7551 Richmond Road

(For internal use only) **Box** 24 **Drawer:** 9

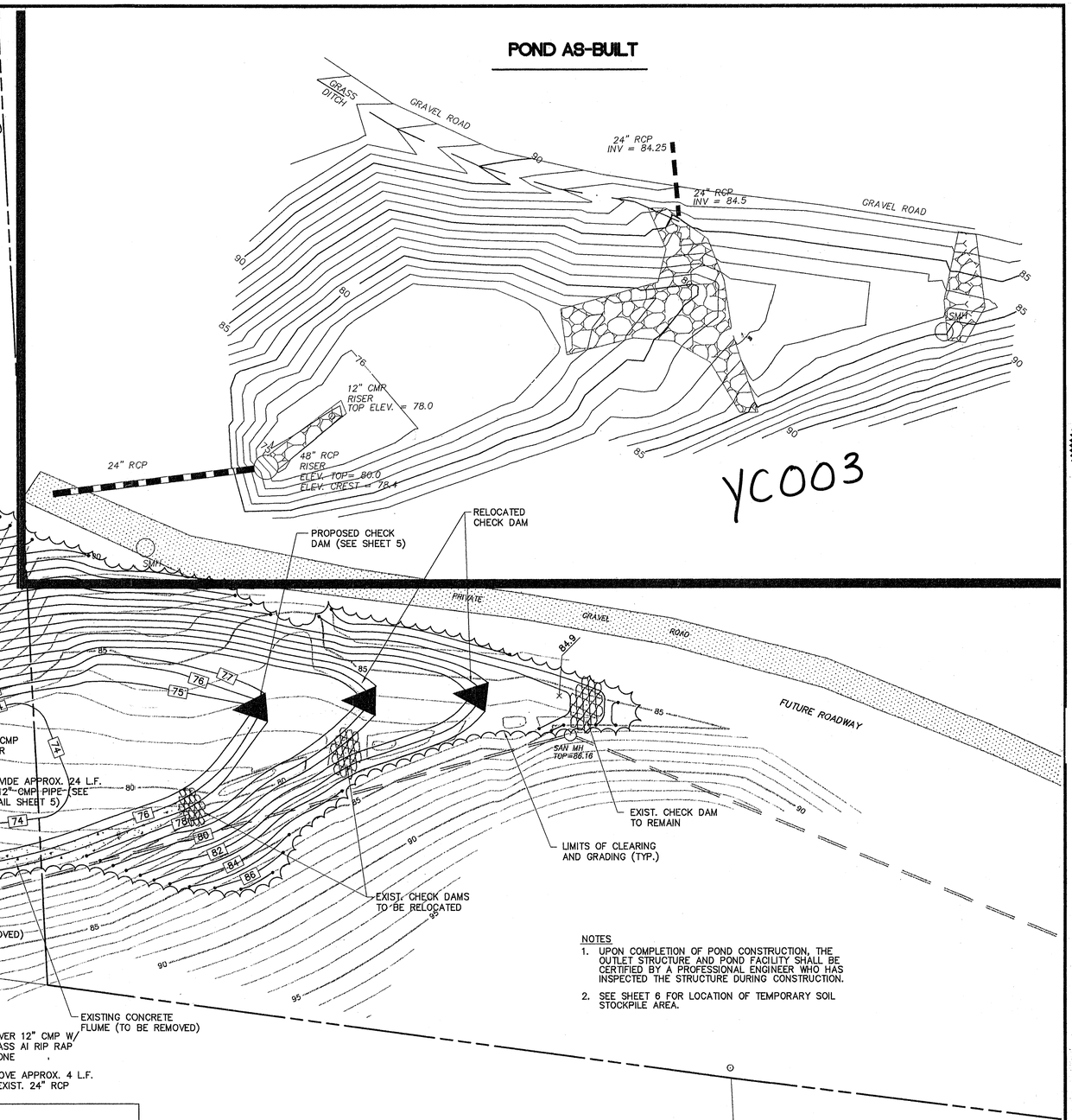
Agreements: (in file as of scan date) **N** **Book or Doc#:** **Page:**

Comments



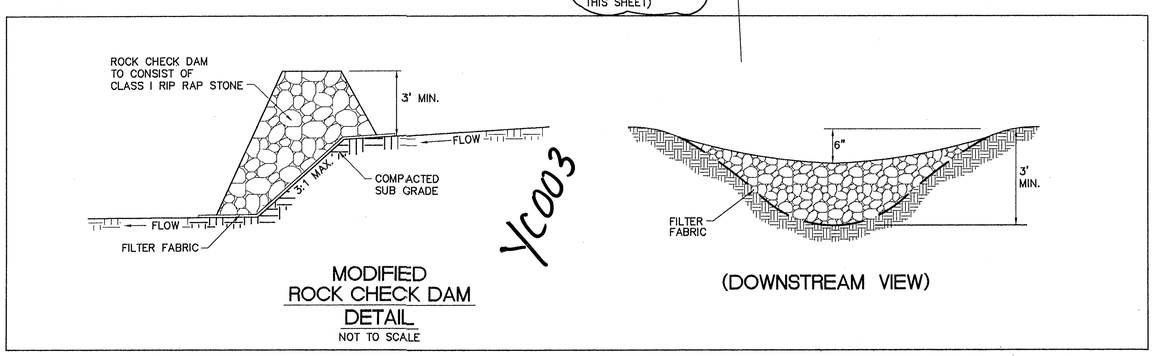
DAM SECTION A-A

SCALE 1"=5'



NOTES

1. UPON COMPLETION OF POND CONSTRUCTION, THE OUTLET STRUCTURE AND POND FACILITY SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER WHO HAS INSPECTED THE STRUCTURE DURING CONSTRUCTION.
2. SEE SHEET 6 FOR LOCATION OF TEMPORARY SOIL STOCKPILE AREA.



MODIFIED ROCK CHECK DAM DETAIL

NOT TO SCALE

(DOWNSTREAM VIEW)

RECORD DRAWING 1/19/98

No.	DATE	REVISION / COMMENT / NOTE	BY
2	1/19/98	RECORD DRAWING	GAM
1	1/13/97	PER JCC COMMENTS	GAM

COMMONWEALTH OF VIRGINIA
G. ARCHER MARSTON, III
No. 06232
PROFESSIONAL ENGINEER

5248 Olde Towne Road, Suite 1
Williamsburg, Virginia 23188
(804) 253-0040
Fax (804) 220-8994
CONSULTING ENGINEERS

SWM/BMP POND PLAN
BUILDING #3
POPLAR CREEK BUSINESS CENTER
BARNETT DEVELOPMENT CO.
JAMES CITY COUNTY VIRGINIA

Designed CAH	Drawn GG
Scale 1"=20'	Date DEC.,1996
Project No. 6883-3	
Drawing No. 3	

HBK 01/23/98-11:59 6883\003

HYDROLOGIC REPORT FOR

POPLAR CREEK

BUSINESS CENTER BUILDING#3

DETENTION BASIN #1

AES JOB NO. 6883-3

AES CONSULTING ENGINEERS

5248 OLDE TOWNE ROAD

WILLIAMSBURG, VA. 23188

DECEMBER 11, 1996

* NOTE: OUTFLOW VALUES FROM EX. FARM FRESH BASIN #1 AT NORGE SHOPPING CENTER ARE BASED ON CALCULATIONS PROVIDED BY BAKER ENGINEERING AS PART OF THE NORGE SHOPPING CENTER SITE PLAN DRAWINGS APPROVED BY JAMES CITY COUNTY AND DATED 7/27/92.

YC003_POPLAR_CREEK_BUSINESS_CENTER_004

Design of Detention Basin #1
Poplar Creek AES Job #6883-3

Determining a pre-development discharge rate (i.e., pre-development 2-year 24-hour storm peak discharge rate) for Detention Basin #1

Pre-Development Conditions

-- Drainage Area = 24.70 Ac.

-- Soil Type / Land Use Breakdown

Hydro. Group	Pre-dev. Use	CN Assigned	Acres	CN * Ac.
A	Single Famil Residential & R/W	60	11.90	714.0
C	Commercial Business	90	4.70	423.0
C	Wooded	70	8.10	567.0
TOTALS			24.70	1704.00
Weighted CN =				69.0

-- Time of Concentration

Overland flow

T=((0.007*(n*L)^0.8)/((P^0.5)*(s^0.4))
where
T=travel time (hours)

n=Manning's roughness coefficient	=	0.05
L=flow length (feet)	=	300.00
P=2-year, 24-hour rainfall (inches)	=	3.50
s=slope of hyd. grade line (ft/ft)	=	0.017

T= 0.17 hours

Design of Detention Basin #1
Poplar Creek AES Job #6883-3

Shallow concentrated flow

T=L/(3600*V)
where
T=travel time (hours)

L=flow length (feet)	=	400.00
V=average velocity (ft/sec)	=	0.75

T= 0.15 hours

Channel flow

T=L/(3600*V)
where
T=travel time (hours)

L=flow length (feet)	=	1600.00
V=average velocity (ft/sec)	=	3.00

T= 0.15 hours

Total time concentration (sum of travel times)

Tc= 0.46 hours

-- Ave. basin slope= 1.71 %

Design of Detention Basin #1

Post-Development Conditions

-- Drainage Area = 24.70 Ac.

-- Soil Type / Land Use Breakdown

Hydro. Group	~~Pre~~ Post-dev. Use	CN Assigned	Acres	CN * Ac.
A	Single Famil Residential & R/W	60	11.90	714.0
C	Commercial Business	90	7.40 4.7 2.7 acres inc.	666.0
C	Wooded	70	5.40 2.7 ac. decrease	378.0
TOTALS			24.70	1758.00
Weighted CN =				71.2

Design of Detention Basin #1

Time of Concentration

Overland flow

T=((0.007*(n*L)^0.8)/((P^0.5)*(s^0.4))
where
T=travel time (hours)

n=Manning's roughness coefficient	=	0.05
L=flow length (feet)	=	300.00
P=100-year, 24-hour rainfall (inches)	=	8.10
s=slope of hyd. grade line (ft/ft)	=	0.017

T= 0.11 hours

Shallow concentrated flow

T=L/(3600*V)
where
T=travel time (hours)

L=flow length (feet)	=	400.00
V=average velocity (ft/sec)	=	0.75

T= 0.15 hours

Channel flow

T=L/(3600*V)
where
T=travel time (hours)

L=flow length (feet)	=	1600.00
V=average velocity (ft/sec)	=	3.00

T= 0.15 hours

Total time concentration (sum of travel times)

Tc= 0.41 hours

Ave. basin slope= 1.70 %

Design of Detention Basin #1

Required volume for 4-point BMP (First flush released in 6-12 Hrs.)

Rv = 0.05 + (0.009)*(% of impervious post development area)

Vol. of pond = (0.5"/Acre)*(Drainage Area)*Rv

½" x % Imp x Area

½ x 0.48 x 24.7

Impervious post development area

Description	Area (Acres)	% Impervious	Impervious Acres	
Wooded/Brush Areas	5.4	30 16	0.9	1.6
Residential Areas	11.9	40	4.8 +	7.1
Commercial/Business	7.4	60 85	6.3	4.4
				10.8
Total impervious area	24.7		11.9	ok

% impervious post development area = 48.2 %

Rv = 0.48

Vol. of pond = 0.50 Ac. ft.
21720 cu. ft.
804 cu. yd.

Design of Detention Basin #1

SIZING ORIFICE FOR 24 HOUR DETENTION

21720 CF / (8 hr*60 min/hr*60 sec/min) = Ave. Release Rate

Average Release Rate required = 0.75 cfs

Amount of Head (feet)	Area of orifice (sf)	Area of orifice (sq. in.)	Size of orifice (dia. in inches)
---	---	---	---
1.00	0.18	26.22	5.78
2.00	0.13	18.54	4.86
3.00	0.11	15.14	4.39
4.00	0.09	13.11	4.09
5.00	0.08	11.72	3.86
6.20	0.07	10.53	3.66

NOTE:
Pond has necessary volume for water quality to qualify as a 4-point BMP.

Option 1 STAGE / STORAGE TABLE R to rese

1. RESERVOIR No = 1. 2. RESERVOIR NAME = BASIN #1....
3. S = Ks * Z^b
Ks = 0..... b = 0.....
START ELEV = 0..... INCREMENT = 0...

	STAGE ft	ELEVATION ft	CO AREA sq ft	INC STORAGE cu ft	TOT STORAGE cu ft
4	0.00	73.80.	0.....	0	0
5	0:20	74.00.	2382....	238	238
6	1.20	75.00.	3852....	3117	3355
7	2.20	76.00.	4902....	4377	7732
8	3.20	77.00.	6185....	5543	13275
9	4.20	78.00.	7369....	6776	20051
10	5.20	79.00.	8794....	8081	28132
11	6.20	80.00.	10441...	9617	37749
12	7.20	81.00.	12088...	11264	49013
13	0.00	0.00.	0.....	0	0
14	0.00	0.00.	0.....	0	0

Change item number: 0 ↵ to cont

Reservoir No. 1 OUTLET STRUCTURES

CULVERT STRUC A. Q=CoA[2gh/k]^.5

1. WIDTH (in) = 24.
2. HEIGHT (in) = 24.
3. No. BARRELS = 1..
4. INVERT ELEV. = 73.8.....
5. Co = 0.60
6. CULVERT LENGTH (ft) = 65..
7. CULVERT SLOPE (%) = 10.6
8. MANNING'S N-VALUE = .013

CULVERT STRUC B. Q=CoA[2gh/k]^.5

9. WIDTH (in) = 4..
10. HEIGHT (in) = 4..
11. No. BARRELS = 1..
12. INVERT ELEV. = 73.8.....
13. Co = 0.60
14. CULVERT LENGTH (ft) = 0...
15. CULVERT SLOPE (%) = 0...
16. MANNING'S N-VALUE = .013
17. MULTI-STAGE OPTION ? (Y/N) Y

WEIR STRUCTURE A. Q=CwLH^EXP

18. CREST LENGTH (ft) = 12.56..
19. CREST ELEVATION = 78.2...
20. Cw = 3.00
21. EXP = 1.50
22. MULTI-STAGE OPTION ? (Y/N) Y

WEIR STRUCTURE B. Q=CwLH^EXP

23. CREST LENGTH (ft) = 10.....
24. CREST ELEVATION = 79.5...
25. Cw = 3.00
26. EXP = 1.50
27. MULTI-STAGE OPTION ? (Y/N) N

Change item number: 0 ↵ to cont

HYDROLOGIC REPORT

2 YR STORM
ROUTED THROUGH EX.....
FARM FRESH BASIN.....

BASED ON BAKER ENG. CALCULATIONS

Hyd. No. 16

Hydrograph type = RESERVOIR ROUTE Peak discharge = 14.25 cfs
Storm frequency = 2 yr Time interval = 2 min
Inflow hyd. no. = 15 Reservoir no. = 2

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
10.67	1.02	1.04	136.04	136.04	0.00
10.70	1.04	1.07	138.11	138.11	0.00
10.73	1.07	1.10	140.22	140.22	0.00
10.77	1.10	1.13	142.39	142.39	0.00
10.80	1.13	1.16	144.62	144.62	0.00
10.83	1.16	1.19	146.91	146.91	0.00
10.87	1.19	1.22	149.26	149.26	0.00
10.90	1.22	1.24	151.66	151.66	0.00
10.93	1.24	1.27	154.12	154.12	0.00
10.97	1.27	1.30	156.64	156.64	0.00
11.00	1.30	1.29	159.21	159.21	0.00
11.03	1.29	1.27	161.80	161.80	0.00
11.07	1.27	1.27	164.36	164.36	0.00
11.10	1.27	1.35	166.90	166.90	0.00
11.13	1.35	1.44	169.52	169.52	0.00
11.17	1.44	1.53	172.30	172.30	0.00
11.20	1.53	1.62	175.27	175.27	0.00
11.23	1.62	1.72	178.42	178.42	0.00
11.27	1.72	1.79	181.77	181.77	0.00
11.30	1.79	1.86	185.28	185.28	0.00
11.33	1.86	1.93	188.93	188.93	0.00
11.37	1.93	2.00	192.72	192.72	0.00
11.40	2.00	2.07	196.65	196.65	0.00
11.43	2.07	2.14	200.72	200.72	0.00
11.47	2.14	2.21	204.93	204.93	0.00

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
11.50	2.21	2.40	209.28	209.28	0.00
11.53	2.40	2.78	213.90	213.90	0.00
11.57	2.78	3.49	219.08	219.08	0.00
11.60	3.49	4.48	225.36	225.36	0.00
11.63	4.48	5.76	233.33	233.33	0.00
11.67	5.76	7.25	243.57	243.57	0.00
11.70	7.25	8.89	256.58	256.58	0.00
11.73	8.89	10.63	272.72	272.72	0.00
11.77	10.63	12.68	292.23	292.23	0.00
11.80	12.68	15.29	315.54	315.54	0.00
11.83	15.29	18.67	343.51	343.51	0.00
11.87	18.67	22.73	377.46	377.46	0.00
11.90	22.73	26.64	418.85	418.85	0.00
11.93	26.64	28.88	468.21	468.21	0.00
11.97	28.88	27.89	522.72	523.73	0.51
12.00	27.89	23.70	569.01	579.49	5.24
12.03	23.70	18.01	599.02	620.60	10.79
12.07	18.01	12.56	613.15	640.73	13.79
12.10	12.56	8.35	615.21	643.71	14.25
12.13	8.35	5.67	609.96	636.12	13.08
12.17	5.67	4.38	601.42	623.99	11.28
12.20	4.38	3.93	592.56	611.48	9.46
12.23	3.93	3.75	584.88	600.87	8.00
12.27	3.75	3.58	578.77	592.55	6.89
12.30	3.58	3.41	574.03	586.10	6.03
12.33	3.41	3.23	570.21	581.02	5.40
12.37	3.23	3.06	566.94	576.86	4.96
12.40	3.06	2.89	564.09	573.23	4.57
12.43	2.89	2.72	561.58	570.04	4.23
12.47	2.72	2.54	559.33	567.18	3.93
12.50	2.54	2.38	557.28	564.58	3.65
12.53	2.38	2.22	555.41	562.20	3.40
12.57	2.22	2.10	553.68	560.01	3.16
12.60	2.10	2.01	552.07	558.01	2.97
12.63	2.01	1.94	550.55	556.18	2.81
12.67	1.94	1.89	549.15	554.50	2.67
12.70	1.89	1.84	547.89	552.98	2.54
12.73	1.84	1.80	546.76	551.62	2.43
12.77	1.80	1.76	545.75	550.41	2.33
12.80	1.76	1.72	544.85	549.32	2.24
12.83	1.72	1.68	544.03	548.34	2.15
12.87	1.68	1.65	543.29	547.44	2.08

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
12.90	1.65	1.61	542.61	546.62	2.01
12.93	1.61	1.57	541.97	545.86	1.94
12.97	1.57	1.53	541.38	545.14	1.88
13.00	1.53	1.49	540.82	544.47	1.83
13.03	1.49	1.45	540.29	543.83	1.77
13.07	1.45	1.42	539.79	543.23	1.72
13.10	1.42	1.39	539.31	542.66	1.67
13.13	1.39	1.36	538.86	542.12	1.63
13.17	1.36	1.34	538.45	541.62	1.59
13.20	1.34	1.32	538.06	541.15	1.55
13.23	1.32	1.30	537.70	540.72	1.51
13.27	1.30	1.28	537.37	540.32	1.48
13.30	1.28	1.26	537.06	539.94	1.44
13.33	1.26	1.23	536.76	539.59	1.41
13.37	1.23	1.21	536.48	539.25	1.39
13.40	1.21	1.19	536.21	538.93	1.36
13.43	1.19	1.17	535.95	538.61	1.33
13.47	1.17	1.15	535.70	538.31	1.31
13.50	1.15	1.13	535.46	538.02	1.28
13.53	1.13	1.11	535.22	537.73	1.26
13.57	1.11	1.09	534.98	537.45	1.23
13.60	1.09	1.07	534.76	537.18	1.21
13.63	1.07	1.05	534.54	536.92	1.19
13.67	1.05	1.04	534.33	536.67	1.17
13.70	1.04	1.02	534.13	536.42	1.15
13.73	1.02	1.01	533.93	536.19	1.13
13.77	1.01	0.99	533.75	535.97	1.11
13.80	0.99	0.98	533.57	535.75	1.09
13.83	0.98	0.96	533.39	535.54	1.07
13.87	0.96	0.95	533.21	535.33	1.06
13.90	0.95	0.93	533.01	535.11	1.05
13.93	0.93	0.92	532.80	534.89	1.04
13.97	0.92	0.90	532.59	534.65	1.03
14.00	0.90	0.89	532.37	534.41	1.02
14.03	0.89	0.87	532.14	534.16	1.01

Maximum outflow (cfs) = 14.25
Maximum storage (cu ft) = 37768
Maximum elevation (ft) = 106.09

HYDROLOGIC REPORT

2 YR PRE-DEVELOPMENT..
COMBINED W/ OUTFLOW...
FROM EX FF BASIN.....

Hyd. No. 2

Hydrograph type = COMBINED
Storm frequency = 2 yr
Inflow hyd no's = 1 & 16

Peak discharge = 18.05 cfs
Time interval = 2 min

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW cfs 1	HYDROGRAPHS cfs 16	OUTFLOW HYDROGRAPH cfs 2
11.93	1.36	0.00	1.36
11.97	1.81	0.51	2.31
12.00	2.29	5.24	7.53
12.03	2.78	10.79	13.57
12.07	3.28	13.79	17.08
12.10	3.80	14.25	18.05
12.13	4.33	13.08	17.41
12.17	4.87	11.28	16.15
12.20	5.42	9.46	14.88
12.23	5.97	8.00	13.97
12.27	6.54	6.89	13.43
12.30	7.10	6.03	13.13
12.33	7.66	5.40	13.06
12.37	8.21	4.96	13.17
12.40	8.75	4.57	13.32
12.43	9.25	4.23	13.49
12.47	9.72	3.93	13.65
12.50	10.12	3.65	13.77
12.53	10.42	3.40	13.82
12.57	10.59	3.16	13.76
12.60	10.63	2.97	13.60
12.63	10.57	2.81	13.39
12.67	10.47	2.67	13.15
12.70	10.36	2.54	12.90
12.73	10.23	2.43	12.66
12.77	10.08	2.33	12.41
12.80	9.92	2.24	12.15
12.83	9.74	2.15	11.90

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
12.87	9.55	2.08	11.63
12.90	9.35	2.01	11.36
12.93	9.14	1.94	11.08
12.97	8.92	1.88	10.80
13.00	8.68	1.83	10.51
13.03	8.44	1.77	10.21
13.07	8.19	1.72	9.91
13.10	7.93	1.67	9.60
13.13	7.66	1.63	9.29
13.17	7.38	1.59	8.97
13.20	7.10	1.55	8.65
13.23	6.82	1.51	8.33
13.27	6.53	1.48	8.00
13.30	6.23	1.44	7.67
13.33	5.93	1.41	7.34
13.37	5.62	1.39	7.01
13.40	5.32	1.36	6.68
13.43	5.01	1.33	6.34
13.47	4.70	1.31	6.01
13.50	4.40	1.28	5.69
13.53	4.11	1.26	5.37
13.57	3.83	1.23	5.07
13.60	3.58	1.21	4.79
13.63	3.36	1.19	4.54
13.67	3.18	1.17	4.35
13.70	3.06	1.15	4.20
13.73	2.97	1.13	4.09
13.77	2.89	1.11	4.00
13.80	2.82	1.09	3.91
13.83	2.75	1.07	3.82
13.87	2.69	1.06	3.75
13.90	2.63	1.05	3.68
13.93	2.57	1.04	3.61
13.97	2.52	1.03	3.55
14.00	2.47	1.02	3.49
14.03	2.42	1.01	3.43
14.07	2.38	0.99	3.37
14.10	2.33	0.98	3.32
14.13	2.29	0.97	3.26
14.17	2.25	0.96	3.21
14.20	2.22	0.95	3.16
14.23	2.18	0.94	3.12
14.27	2.15	0.93	3.07
14.30	2.12	0.92	3.03
14.33	2.08	0.91	2.99
14.37	2.05	0.90	2.95

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
14.40	2.02	0.89	2.91
14.43	1.99	0.88	2.88
14.47	1.97	0.87	2.84
14.50	1.94	0.87	2.80
14.53	1.91	0.86	2.77
14.57	1.89	0.85	2.74
14.60	1.86	0.84	2.71
14.63	1.84	0.84	2.68
14.67	1.82	0.83	2.65
14.70	1.80	0.82	2.62
14.73	1.78	0.82	2.60
14.77	1.76	0.81	2.57
14.80	1.74	0.80	2.54
14.83	1.72	0.80	2.52
14.87	1.71	0.79	2.50
14.90	1.69	0.79	2.47
14.93	1.67	0.78	2.45
14.97	1.66	0.77	2.43
15.00	1.64	0.77	2.41
15.03	1.63	0.76	2.39
15.07	1.62	0.76	2.37
15.10	1.60	0.75	2.35
15.13	1.59	0.74	2.33
15.17	1.58	0.74	2.32
15.20	1.57	0.73	2.30
15.23	1.55	0.73	2.28
15.27	1.54	0.72	2.26
15.30	1.53	0.72	2.25
15.33	1.52	0.71	2.23
15.37	1.51	0.71	2.22
15.40	1.50	0.70	2.20
15.43	1.49	0.69	2.18
15.47	1.48	0.69	2.17
15.50	1.47	0.68	2.15
15.53	1.46	0.68	2.14
15.57	1.45	0.67	2.12
15.60	1.44	0.67	2.11
15.63	1.43	0.66	2.09
15.67	1.42	0.66	2.08
15.70	1.41	0.65	2.06
15.73	1.40	0.65	2.05
15.77	1.39	0.64	2.03
15.80	1.38	0.63	2.02
15.83	1.37	0.63	2.00
15.87	1.37	0.62	1.99
15.90	1.36	0.62	1.97

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
15.93	1.35	0.61	1.96
15.97	1.34	0.61	1.94
16.00	1.33	0.60	1.93
16.03	1.32	0.60	1.91
16.07	1.31	0.59	1.90
16.10	1.30	0.59	1.88
16.13	1.29	0.58	1.87
16.17	1.28	0.58	1.85
16.20	1.27	0.57	1.84
16.23	1.26	0.57	1.83
16.27	1.25	0.56	1.81
16.30	1.24	0.56	1.80
16.33	1.23	0.56	1.79
16.37	1.22	0.55	1.77
16.40	1.21	0.55	1.76
16.43	1.20	0.54	1.75
16.47	1.20	0.54	1.74
16.50	1.19	0.54	1.73
16.53	1.18	0.54	1.71
16.57	1.17	0.53	1.70
16.60	1.16	0.53	1.69
16.63	1.15	0.53	1.68
16.67	1.15	0.52	1.67
16.70	1.14	0.52	1.66
16.73	1.13	0.52	1.65
16.77	1.13	0.52	1.64
16.80	1.12	0.52	1.63
16.83	1.11	0.51	1.63
16.87	1.11	0.51	1.62
16.90	1.10	0.51	1.61
16.93	1.10	0.51	1.60
16.97	1.09	0.50	1.59
17.00	1.08	0.50	1.59
17.03	1.08	0.50	1.58
17.07	1.07	0.50	1.57
17.10	1.07	0.50	1.56
17.13	1.06	0.49	1.56
17.17	1.06	0.49	1.55
17.20	1.06	0.49	1.54
17.23	1.05	0.49	1.54
17.27	1.05	0.49	1.53
17.30	1.04	0.48	1.53
17.33	1.04	0.48	1.52
17.37	1.03	0.48	1.51
17.40	1.03	0.48	1.51
17.43	1.03	0.48	1.50

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
17.47	1.02	0.47	1.50
17.50	1.02	0.47	1.49
17.53	1.02	0.47	1.49
17.57	1.01	0.47	1.48
17.60	1.01	0.47	1.47
17.63	1.01	0.46	1.47
17.67	1.00	0.46	1.46
17.70	1.00	0.46	1.46
17.73	1.00	0.46	1.45
17.77	0.99	0.46	1.45
17.80	0.99	0.45	1.44
17.83	0.98	0.45	1.44
17.87	0.98	0.45	1.43
17.90	0.98	0.45	1.43
17.93	0.97	0.45	1.42
17.97	0.97	0.44	1.41
18.00	0.97	0.44	1.41
18.03	0.96	0.44	1.40
18.07	0.96	0.44	1.40
18.10	0.96	0.44	1.39
18.13	0.95	0.43	1.39
18.17	0.95	0.43	1.38
18.20	0.95	0.43	1.38
18.23	0.94	0.43	1.37
18.27	0.94	0.43	1.37
18.30	0.94	0.42	1.36
18.33	0.93	0.42	1.35
18.37	0.93	0.42	1.35
18.40	0.92	0.42	1.34
18.43	0.92	0.42	1.34
18.47	0.92	0.42	1.33
18.50	0.91	0.41	1.33
18.53	0.91	0.41	1.32
18.57	0.91	0.41	1.32
18.60	0.90	0.41	1.31
18.63	0.90	0.41	1.30
18.67	0.90	0.40	1.30
18.70	0.89	0.40	1.29
18.73	0.89	0.40	1.29
18.77	0.88	0.40	1.28
18.80	0.88	0.40	1.28
18.83	0.88	0.39	1.27
18.87	0.87	0.39	1.27
18.90	0.87	0.39	1.26
18.93	0.87	0.39	1.25
18.97	0.86	0.39	1.25

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
19.00	0.86	0.38	1.24
19.03	0.86	0.38	1.24
19.07	0.85	0.38	1.23
19.10	0.85	0.38	1.23
19.13	0.84	0.38	1.22
19.17	0.84	0.37	1.22
19.20	0.84	0.37	1.21
19.23	0.83	0.37	1.20
19.27	0.83	0.37	1.20
19.30	0.83	0.37	1.19
19.33	0.82	0.37	1.19
19.37	0.82	0.36	1.18
19.40	0.81	0.36	1.18
19.43	0.81	0.36	1.17
19.47	0.81	0.36	1.16
19.50	0.80	0.36	1.16
19.53	0.80	0.35	1.15
19.57	0.80	0.35	1.15
19.60	0.79	0.35	1.14
19.63	0.79	0.35	1.14
19.67	0.78	0.35	1.13
19.70	0.78	0.34	1.12
19.73	0.78	0.34	1.12
19.77	0.77	0.34	1.11
19.80	0.77	0.34	1.11
19.83	0.76	0.34	1.10
19.87	0.76	0.33	1.10
19.90	0.76	0.33	1.09
19.93	0.75	0.33	1.08
19.97	0.75	0.33	1.08
20.00	0.75	0.33	1.07
20.03	0.74	0.32	1.07
20.07	0.74	0.32	1.06
20.10	0.73	0.32	1.05
20.13	0.73	0.32	1.05
20.17	0.73	0.32	1.04
20.20	0.72	0.32	1.04
20.23	0.72	0.31	1.03
20.27	0.72	0.31	1.03
20.30	0.71	0.31	1.02
20.33	0.71	0.31	1.02
20.37	0.70	0.31	1.01
20.40	0.70	0.31	1.01
20.43	0.70	0.31	1.00
20.47	0.69	0.31	1.00

HYDROLOGIC REPORT

2YR POST RUNOFF COMB..
W/ OUTFLOW FROM EX....
FARM FRESH BASIN.....

Hyd. No. 9

Hydrograph type = COMBINED
Storm frequency = 2 yr
Inflow hyd no's = 3 & 16

Peak discharge = 19.41 cfs
Time interval = 2 min

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW cfs 3	HYDROGRAPHS cfs 16	OUTFLOW HYDROGRAPH cfs 9
11.87	1.10	0.00	1.10
11.90	1.50	0.00	1.50
11.93	2.01	0.00	2.01
11.97	2.60	0.51	3.10
12.00	3.22	5.24	8.45
12.03	3.85	10.79	14.64
12.07	4.50	13.79	18.29
12.10	5.16	14.25	19.41
12.13	5.84	13.08	18.92
12.17	6.52	11.28	17.80
12.20	7.21	9.46	16.67
12.23	7.91	8.00	15.91
12.27	8.61	6.89	15.50
12.30	9.29	6.03	15.33
12.33	9.96	5.40	15.37
12.37	10.61	4.96	15.57
12.40	11.23	4.57	15.80
12.43	11.78	4.23	16.01
12.47	12.25	3.93	16.18
12.50	12.59	3.65	16.24
12.53	12.78	3.40	16.17
12.57	12.79	3.16	15.96
12.60	12.69	2.97	15.66
12.63	12.54	2.81	15.36
12.67	12.37	2.67	15.05
12.70	12.19	2.54	14.73
12.73	11.98	2.43	14.41
12.77	11.76	2.33	14.08

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
12.80	11.52	2.24	13.75
12.83	11.26	2.15	13.41
12.87	10.99	2.08	13.07
12.90	10.71	2.01	12.72
12.93	10.41	1.94	12.36
12.97	10.10	1.88	11.99
13.00	9.78	1.83	11.61
13.03	9.45	1.77	11.23
13.07	9.11	1.72	10.84
13.10	8.77	1.67	10.44
13.13	8.41	1.63	10.04
13.17	8.05	1.59	9.64
13.20	7.69	1.55	9.23
13.23	7.31	1.51	8.82
13.27	6.94	1.48	8.41
13.30	6.56	1.44	8.00
13.33	6.18	1.41	7.59
13.37	5.80	1.39	7.18
13.40	5.42	1.36	6.78
13.43	5.05	1.33	6.39
13.47	4.70	1.31	6.00
13.50	4.36	1.28	5.64
13.53	4.05	1.26	5.31
13.57	3.79	1.23	5.02
13.60	3.58	1.21	4.79
13.63	3.43	1.19	4.62
13.67	3.33	1.17	4.49
13.70	3.24	1.15	4.39
13.73	3.15	1.13	4.28
13.77	3.08	1.11	4.19
13.80	3.00	1.09	4.09
13.83	2.93	1.07	4.01
13.87	2.87	1.06	3.93
13.90	2.81	1.05	3.86
13.93	2.75	1.04	3.79
13.97	2.70	1.03	3.73
14.00	2.64	1.02	3.66
14.03	2.60	1.01	3.60
14.07	2.55	0.99	3.54
14.10	2.51	0.98	3.49
14.13	2.46	0.97	3.43
14.17	2.42	0.96	3.38
14.20	2.39	0.95	3.33
14.23	2.35	0.94	3.28
14.27	2.31	0.93	3.24
14.30	2.28	0.92	3.19

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
14.33	2.24	0.91	3.15
14.37	2.21	0.90	3.11
14.40	2.18	0.89	3.07
14.43	2.15	0.88	3.03
14.47	2.12	0.87	2.99
14.50	2.09	0.87	2.95
14.53	2.06	0.86	2.92
14.57	2.03	0.85	2.88
14.60	2.01	0.84	2.85
14.63	1.98	0.84	2.82
14.67	1.96	0.83	2.79
14.70	1.94	0.82	2.76
14.73	1.92	0.82	2.73
14.77	1.90	0.81	2.71
14.80	1.88	0.80	2.68
14.83	1.86	0.80	2.66
14.87	1.84	0.79	2.63
14.90	1.82	0.79	2.61
14.93	1.81	0.78	2.59
14.97	1.79	0.77	2.56
15.00	1.78	0.77	2.54
15.03	1.76	0.76	2.52
15.07	1.75	0.76	2.50
15.10	1.73	0.75	2.48
15.13	1.72	0.74	2.46
15.17	1.71	0.74	2.44
15.20	1.69	0.73	2.43
15.23	1.68	0.73	2.41
15.27	1.67	0.72	2.39
15.30	1.66	0.72	2.37
15.33	1.64	0.71	2.36
15.37	1.63	0.71	2.34
15.40	1.62	0.70	2.32
15.43	1.61	0.69	2.31
15.47	1.60	0.69	2.29
15.50	1.59	0.68	2.27
15.53	1.58	0.68	2.26
15.57	1.57	0.67	2.24
15.60	1.56	0.67	2.23
15.63	1.55	0.66	2.21
15.67	1.54	0.66	2.19
15.70	1.53	0.65	2.18
15.73	1.52	0.65	2.16
15.77	1.51	0.64	2.15
15.80	1.50	0.63	2.13
15.83	1.49	0.63	2.11

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
15.87	1.47	0.62	2.10
15.90	1.46	0.62	2.08
15.93	1.45	0.61	2.07
15.97	1.44	0.61	2.05
16.00	1.43	0.60	2.03
16.03	1.42	0.60	2.02
16.07	1.41	0.59	2.00
16.10	1.40	0.59	1.99
16.13	1.39	0.58	1.97
16.17	1.38	0.58	1.95
16.20	1.37	0.57	1.94
16.23	1.36	0.57	1.92
16.27	1.35	0.56	1.91
16.30	1.34	0.56	1.90
16.33	1.33	0.56	1.88
16.37	1.32	0.55	1.87
16.40	1.31	0.55	1.86
16.43	1.30	0.54	1.84
16.47	1.29	0.54	1.83
16.50	1.28	0.54	1.82
16.53	1.27	0.54	1.81
16.57	1.26	0.53	1.79
16.60	1.25	0.53	1.78
16.63	1.24	0.53	1.77
16.67	1.24	0.52	1.76
16.70	1.23	0.52	1.75
16.73	1.22	0.52	1.74
16.77	1.21	0.52	1.73
16.80	1.21	0.52	1.72
16.83	1.20	0.51	1.71
16.87	1.19	0.51	1.70
16.90	1.19	0.51	1.70
16.93	1.18	0.51	1.69
16.97	1.18	0.50	1.68
17.00	1.17	0.50	1.67
17.03	1.16	0.50	1.66
17.07	1.16	0.50	1.66
17.10	1.15	0.50	1.65
17.13	1.15	0.49	1.64
17.17	1.14	0.49	1.63
17.20	1.14	0.49	1.63
17.23	1.13	0.49	1.62
17.27	1.13	0.49	1.61
17.30	1.13	0.48	1.61
17.33	1.12	0.48	1.60
17.37	1.12	0.48	1.60

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
17.40	1.11	0.48	1.59
17.43	1.11	0.48	1.58
17.47	1.10	0.47	1.58
17.50	1.10	0.47	1.57
17.53	1.10	0.47	1.57
17.57	1.09	0.47	1.56
17.60	1.09	0.47	1.55
17.63	1.09	0.46	1.55
17.67	1.08	0.46	1.54
17.70	1.08	0.46	1.54
17.73	1.07	0.46	1.53
17.77	1.07	0.46	1.53
17.80	1.07	0.45	1.52
17.83	1.06	0.45	1.51
17.87	1.06	0.45	1.51
17.90	1.06	0.45	1.50
17.93	1.05	0.45	1.50
17.97	1.05	0.44	1.49
18.00	1.04	0.44	1.49
18.03	1.04	0.44	1.48
18.07	1.04	0.44	1.47
18.10	1.03	0.44	1.47
18.13	1.03	0.43	1.46
18.17	1.02	0.43	1.46
18.20	1.02	0.43	1.45
18.23	1.02	0.43	1.44
18.27	1.01	0.43	1.44
18.30	1.01	0.42	1.43
18.33	1.00	0.42	1.43
18.37	1.00	0.42	1.42
18.40	1.00	0.42	1.42
18.43	0.99	0.42	1.41
18.47	0.99	0.42	1.40
18.50	0.98	0.41	1.40
18.53	0.98	0.41	1.39
18.57	0.98	0.41	1.39
18.60	0.97	0.41	1.38
18.63	0.97	0.41	1.37
18.67	0.97	0.40	1.37
18.70	0.96	0.40	1.36
18.73	0.96	0.40	1.36
18.77	0.95	0.40	1.35
18.80	0.95	0.40	1.34
18.83	0.94	0.39	1.34
18.87	0.94	0.39	1.33
18.90	0.94	0.39	1.33

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
18.93	0.93	0.39	1.32
18.97	0.93	0.39	1.32
19.00	0.92	0.38	1.31
19.03	0.92	0.38	1.30
19.07	0.92	0.38	1.30
19.10	0.91	0.38	1.29
19.13	0.91	0.38	1.29
19.17	0.90	0.37	1.28
19.20	0.90	0.37	1.27
19.23	0.90	0.37	1.27
19.27	0.89	0.37	1.26
19.30	0.89	0.37	1.26
19.33	0.88	0.37	1.25
19.37	0.88	0.36	1.24
19.40	0.88	0.36	1.24
19.43	0.87	0.36	1.23
19.47	0.87	0.36	1.22
19.50	0.86	0.36	1.22
19.53	0.86	0.35	1.21
19.57	0.86	0.35	1.21
19.60	0.85	0.35	1.20
19.63	0.85	0.35	1.19
19.67	0.84	0.35	1.19
19.70	0.84	0.34	1.18
19.73	0.83	0.34	1.18
19.77	0.83	0.34	1.17
19.80	0.83	0.34	1.16
19.83	0.82	0.34	1.16
19.87	0.82	0.33	1.15
19.90	0.81	0.33	1.15
19.93	0.81	0.33	1.14
19.97	0.81	0.33	1.13
20.00	0.80	0.33	1.13
20.03	0.80	0.32	1.12
20.07	0.79	0.32	1.12
20.10	0.79	0.32	1.11
20.13	0.78	0.32	1.10
20.17	0.78	0.32	1.10
20.20	0.78	0.32	1.09
20.23	0.77	0.31	1.09
20.27	0.77	0.31	1.08
20.30	0.76	0.31	1.08
20.33	0.76	0.31	1.07
20.37	0.76	0.31	1.07
20.40	0.75	0.31	1.06
20.43	0.75	0.31	1.06

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
20.47	0.75	0.31	1.05
20.50	0.74	0.31	1.05
20.53	0.74	0.30	1.04
20.57	0.74	0.30	1.04
20.60	0.73	0.30	1.04
20.63	0.73	0.30	1.03
20.67	0.73	0.30	1.03
20.70	0.72	0.30	1.02
20.73	0.72	0.30	1.02
20.77	0.72	0.30	1.02
20.80	0.72	0.30	1.02
20.83	0.71	0.30	1.01
20.87	0.71	0.30	1.01
20.90	0.71	0.30	1.01
20.93	0.71	0.30	1.01
20.97	0.71	0.30	1.00
21.00	0.70	0.30	1.00

HYDROLOGIC REPORT

2 YR POST DEVELOPMENT.
RUNOFF ROUTED THROUGH.
BASIN #1.....

Hyd. No. 10

Hydrograph type = RESERVOIR ROUTE Peak discharge = 15.67 cfs
Storm frequency = 2 yr Time interval = 2 min
Inflow hyd. no. = 9 Reservoir no. = 1

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
	9	9			
11.87	1.10	1.50	6.62	6.87	0.13
11.90	1.50	2.01	8.92	9.23	0.15
11.93	2.01	3.10	12.07	12.44	0.18
11.97	3.10	8.45	16.75	17.18	0.22
12.00	8.45	14.64	27.72	28.30	0.29
12.03	14.64	18.29	50.02	50.81	0.40
12.07	18.29	19.41	81.97	82.95	0.49
12.10	19.41	18.92	118.53	119.67	0.57
12.13	18.92	17.80	155.60	156.86	0.63
12.17	17.80	16.67	190.96	192.32	0.68
12.20	16.67	15.91	223.99	225.43	0.72
12.23	15.91	15.50	255.05	256.57	0.76
12.27	15.50	15.33	284.89	286.46	0.79
12.30	15.33	15.37	314.08	315.71	0.81
12.33	15.37	15.57	343.10	344.78	0.84
12.37	15.57	15.80	370.36	374.04	1.84
12.40	15.80	16.01	390.04	401.73	5.84
12.43	16.01	16.18	402.55	421.85	9.65
12.47	16.18	16.24	409.95	434.74	12.39
12.50	16.24	16.17	414.25	442.37	14.06
12.53	16.17	15.96	416.53	446.67	15.07
12.57	15.96	15.66	417.58	448.66	15.54
12.60	15.66	15.36	417.86	449.19	15.67
12.63	15.36	15.05	417.70	448.88	15.59
12.67	15.05	14.73	417.28	448.10	15.41

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
12.70	14.73	14.41	416.73	447.06	15.16
12.73	14.41	14.08	416.11	445.87	14.88
12.77	14.08	13.75	415.43	444.60	14.58
12.80	13.75	13.41	414.73	443.27	14.27
12.83	13.41	13.07	413.98	441.90	13.96
12.87	13.07	12.72	413.18	440.47	13.65
12.90	12.72	12.36	412.33	438.96	13.32
12.93	12.36	11.99	411.45	437.40	12.98
12.97	11.99	11.61	410.55	435.79	12.62
13.00	11.61	11.23	409.62	434.14	12.26
13.03	11.23	10.84	408.66	432.45	11.89
13.07	10.84	10.44	407.69	430.73	11.52
13.10	10.44	10.04	406.70	428.97	11.13
13.13	10.04	9.64	405.70	427.18	10.74
13.17	9.64	9.23	404.68	425.38	10.35
13.20	9.23	8.82	403.58	423.55	9.99
13.23	8.82	8.41	402.42	421.63	9.61
13.27	8.41	8.00	401.23	419.66	9.22
13.30	8.00	7.59	400.01	417.64	8.82
13.33	7.59	7.18	398.77	415.60	8.41
13.37	7.18	6.78	397.53	413.55	8.01
13.40	6.78	6.39	396.29	411.50	7.60
13.43	6.39	6.00	395.06	409.46	7.20
13.47	6.00	5.64	393.79	407.45	6.83
13.50	5.64	5.31	392.47	405.43	6.48
13.53	5.31	5.02	391.15	403.42	6.13
13.57	5.02	4.79	389.87	401.47	5.80
13.60	4.79	4.62	388.70	399.68	5.49
13.63	4.62	4.49	387.67	398.11	5.22
13.67	4.49	4.39	386.80	396.78	4.99
13.70	4.39	4.28	386.07	395.68	4.80
13.73	4.28	4.19	385.46	394.74	4.64
13.77	4.19	4.09	384.92	393.93	4.50
13.80	4.09	4.01	384.45	393.20	4.38
13.83	4.01	3.93	384.02	392.55	4.26
13.87	3.93	3.86	383.61	391.96	4.17
13.90	3.86	3.79	383.21	391.41	4.10
13.93	3.79	3.73	382.82	390.86	4.02
13.97	3.73	3.66	382.44	390.34	3.95
14.00	3.66	3.60	382.07	389.83	3.88
14.03	3.60	3.54	381.72	389.34	3.81
14.07	3.54	3.49	381.38	388.87	3.74

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
14.10	3.49	3.43	381.05	388.41	3.68
14.13	3.43	3.38	380.73	387.97	3.62
14.17	3.38	3.33	380.42	387.54	3.56
14.20	3.33	3.28	380.12	387.13	3.51
14.23	3.28	3.24	379.84	386.74	3.45
14.27	3.24	3.19	379.56	386.36	3.40
14.30	3.19	3.15	379.30	385.99	3.35
14.33	3.15	3.11	379.04	385.64	3.30
14.37	3.11	3.07	378.80	385.30	3.25
14.40	3.07	3.03	378.56	384.97	3.21
14.43	3.03	2.99	378.33	384.65	3.16
14.47	2.99	2.95	378.11	384.34	3.12
14.50	2.95	2.92	377.89	384.05	3.08
14.53	2.92	2.88	377.69	383.76	3.04
14.57	2.88	2.85	377.49	383.49	3.00
14.60	2.85	2.82	377.30	383.22	2.96
14.63	2.82	2.79	377.11	382.97	2.93
14.67	2.79	2.76	376.93	382.72	2.89
14.70	2.76	2.73	376.76	382.49	2.86
14.73	2.73	2.71	376.60	382.26	2.83
14.77	2.71	2.68	376.44	382.04	2.80
14.80	2.68	2.66	376.29	381.83	2.77
14.83	2.66	2.63	376.14	381.62	2.74
14.87	2.63	2.61	376.00	381.43	2.72
14.90	2.61	2.59	375.86	381.24	2.69
14.93	2.59	2.56	375.73	381.05	2.66
14.97	2.56	2.54	375.60	380.88	2.64
15.00	2.54	2.52	375.47	380.70	2.62
15.03	2.52	2.50	375.35	380.54	2.59
15.07	2.50	2.48	375.24	380.38	2.57
15.10	2.48	2.46	375.12	380.22	2.55
15.13	2.46	2.44	375.01	380.07	2.53
15.17	2.44	2.43	374.91	379.92	2.51
15.20	2.43	2.41	374.80	379.78	2.49
15.23	2.41	2.39	374.70	379.64	2.47
15.27	2.39	2.37	374.60	379.50	2.45
15.30	2.37	2.36	374.50	379.36	2.43
15.33	2.36	2.34	374.41	379.23	2.41
15.37	2.34	2.32	374.32	379.10	2.39
15.40	2.32	2.31	374.22	378.98	2.38
15.43	2.31	2.29	374.13	378.85	2.36
15.47	2.29	2.27	374.05	378.73	2.34

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
15.50	2.27	2.26	373.96	378.61	2.33
15.53	2.26	2.24	373.87	378.49	2.31
15.57	2.24	2.23	373.78	378.37	2.29
15.60	2.23	2.21	373.70	378.25	2.28
15.63	2.21	2.19	373.62	378.13	2.26
15.67	2.19	2.18	373.53	378.02	2.24
15.70	2.18	2.16	373.45	377.90	2.23
15.73	2.16	2.15	373.36	377.79	2.21
15.77	2.15	2.13	373.28	377.67	2.20
15.80	2.13	2.11	373.20	377.56	2.18
15.83	2.11	2.10	373.11	377.44	2.16
15.87	2.10	2.08	373.03	377.33	2.15
15.90	2.08	2.07	372.95	377.21	2.13
15.93	2.07	2.05	372.87	377.10	2.12
15.97	2.05	2.03	372.78	376.98	2.10
16.00	2.03	2.02	372.70	376.87	2.08
16.03	2.02	2.00	372.61	376.75	2.07
16.07	2.00	1.99	372.53	376.63	2.05
16.10	1.99	1.97	372.43	376.52	2.04
16.13	1.97	1.95	372.32	376.39	2.03
16.17	1.95	1.94	372.21	376.25	2.02
16.20	1.94	1.92	372.09	376.10	2.01
16.23	1.92	1.91	371.96	375.95	2.00
16.27	1.91	1.90	371.83	375.79	1.98
16.30	1.90	1.88	371.69	375.63	1.97
16.33	1.88	1.87	371.56	375.47	1.96
16.37	1.87	1.86	371.42	375.31	1.94
16.40	1.86	1.84	371.28	375.14	1.93
16.43	1.84	1.83	371.15	374.98	1.92
16.47	1.83	1.82	371.01	374.82	1.90
16.50	1.82	1.81	370.88	374.66	1.89
16.53	1.81	1.79	370.74	374.50	1.88
16.57	1.79	1.78	370.61	374.34	1.86
16.60	1.78	1.77	370.49	374.19	1.85
16.63	1.77	1.76	370.36	374.04	1.84
16.67	1.76	1.75	370.24	373.89	1.83
16.70	1.75	1.74	370.12	373.75	1.82
16.73	1.74	1.73	370.00	373.61	1.80
16.77	1.73	1.72	369.88	373.47	1.79
16.80	1.72	1.71	369.77	373.34	1.78
16.83	1.71	1.70	369.66	373.21	1.77
16.87	1.70	1.70	369.56	373.08	1.76

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
16.90	1.70	1.69	369.45	372.96	1.75
16.93	1.69	1.68	369.35	372.84	1.74
16.97	1.68	1.67	369.26	372.72	1.73
17.00	1.67	1.66	369.16	372.61	1.72
17.03	1.66	1.66	369.07	372.50	1.71
17.07	1.66	1.65	368.98	372.39	1.70
17.10	1.65	1.64	368.89	372.29	1.70
17.13	1.64	1.63	368.81	372.18	1.69
17.17	1.63	1.63	368.72	372.08	1.68
17.20	1.63	1.62	368.64	371.99	1.67
17.23	1.62	1.61	368.57	371.89	1.66
17.27	1.61	1.61	368.49	371.80	1.66
17.30	1.61	1.60	368.41	371.71	1.65
17.33	1.60	1.60	368.34	371.62	1.64
17.37	1.60	1.59	368.27	371.54	1.64
17.40	1.59	1.58	368.20	371.45	1.63
17.43	1.58	1.58	368.13	371.37	1.62
17.47	1.58	1.57	368.06	371.29	1.61
17.50	1.57	1.57	368.00	371.21	1.61
17.53	1.57	1.56	367.93	371.13	1.60
17.57	1.56	1.55	367.87	371.06	1.60
17.60	1.55	1.55	367.80	370.98	1.59
17.63	1.55	1.54	367.74	370.91	1.58
17.67	1.54	1.54	367.68	370.83	1.58
17.70	1.54	1.53	367.62	370.76	1.57
17.73	1.53	1.53	367.55	370.69	1.57
17.77	1.53	1.52	367.49	370.61	1.56
17.80	1.52	1.51	367.43	370.54	1.55
17.83	1.51	1.51	367.37	370.47	1.55
17.87	1.51	1.50	367.31	370.40	1.54
17.90	1.50	1.50	367.25	370.33	1.54
17.93	1.50	1.49	367.19	370.25	1.53
17.97	1.49	1.49	367.14	370.18	1.52
18.00	1.49	1.48	367.08	370.11	1.52
18.03	1.48	1.47	367.02	370.04	1.51
18.07	1.47	1.47	366.96	369.97	1.51
18.10	1.47	1.46	366.90	369.90	1.50
18.13	1.46	1.46	366.84	369.83	1.49
18.17	1.46	1.45	366.78	369.76	1.49
18.20	1.45	1.44	366.72	369.69	1.48
18.23	1.44	1.44	366.66	369.62	1.48
18.27	1.44	1.43	366.60	369.54	1.47

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
18.30	1.43	1.43	366.54	369.47	1.47
18.33	1.43	1.42	366.48	369.40	1.46
18.37	1.42	1.42	366.42	369.33	1.45
18.40	1.42	1.41	366.36	369.26	1.45
18.43	1.41	1.40	366.30	369.19	1.44
18.47	1.40	1.40	366.24	369.12	1.44
18.50	1.40	1.39	366.18	369.05	1.43
18.53	1.39	1.39	366.12	368.97	1.42
18.57	1.39	1.38	366.06	368.90	1.42
18.60	1.38	1.37	366.00	368.83	1.41
18.63	1.37	1.37	365.94	368.76	1.41
18.67	1.37	1.36	365.88	368.69	1.40
18.70	1.36	1.36	365.82	368.62	1.40
18.73	1.36	1.35	365.76	368.54	1.39
18.77	1.35	1.34	365.70	368.47	1.38
18.80	1.34	1.34	365.64	368.40	1.38
18.83	1.34	1.33	365.58	368.33	1.37
18.87	1.33	1.33	365.52	368.26	1.37
18.90	1.33	1.32	365.46	368.18	1.36
18.93	1.32	1.32	365.40	368.11	1.35
18.97	1.32	1.31	365.34	368.04	1.35
19.00	1.31	1.30	365.28	367.97	1.34
19.03	1.30	1.30	365.22	367.89	1.34
19.07	1.30	1.29	365.16	367.82	1.33
19.10	1.29	1.29	365.10	367.75	1.32
19.13	1.29	1.28	365.04	367.67	1.32
19.17	1.28	1.27	364.98	367.60	1.31
19.20	1.27	1.27	364.92	367.53	1.31
19.23	1.27	1.26	364.85	367.46	1.30
19.27	1.26	1.26	364.79	367.38	1.29
19.30	1.26	1.25	364.73	367.31	1.29
19.33	1.25	1.24	364.67	367.24	1.28
19.37	1.24	1.24	364.61	367.16	1.28
19.40	1.24	1.23	364.55	367.09	1.27
19.43	1.23	1.22	364.49	367.02	1.26
19.47	1.22	1.22	364.43	366.94	1.26
19.50	1.22	1.21	364.36	366.87	1.25
19.53	1.21	1.21	364.30	366.80	1.25
19.57	1.21	1.20	364.24	366.72	1.24
19.60	1.20	1.19	364.18	366.65	1.23
19.63	1.19	1.19	364.12	366.57	1.23
19.67	1.19	1.18	364.06	366.50	1.22

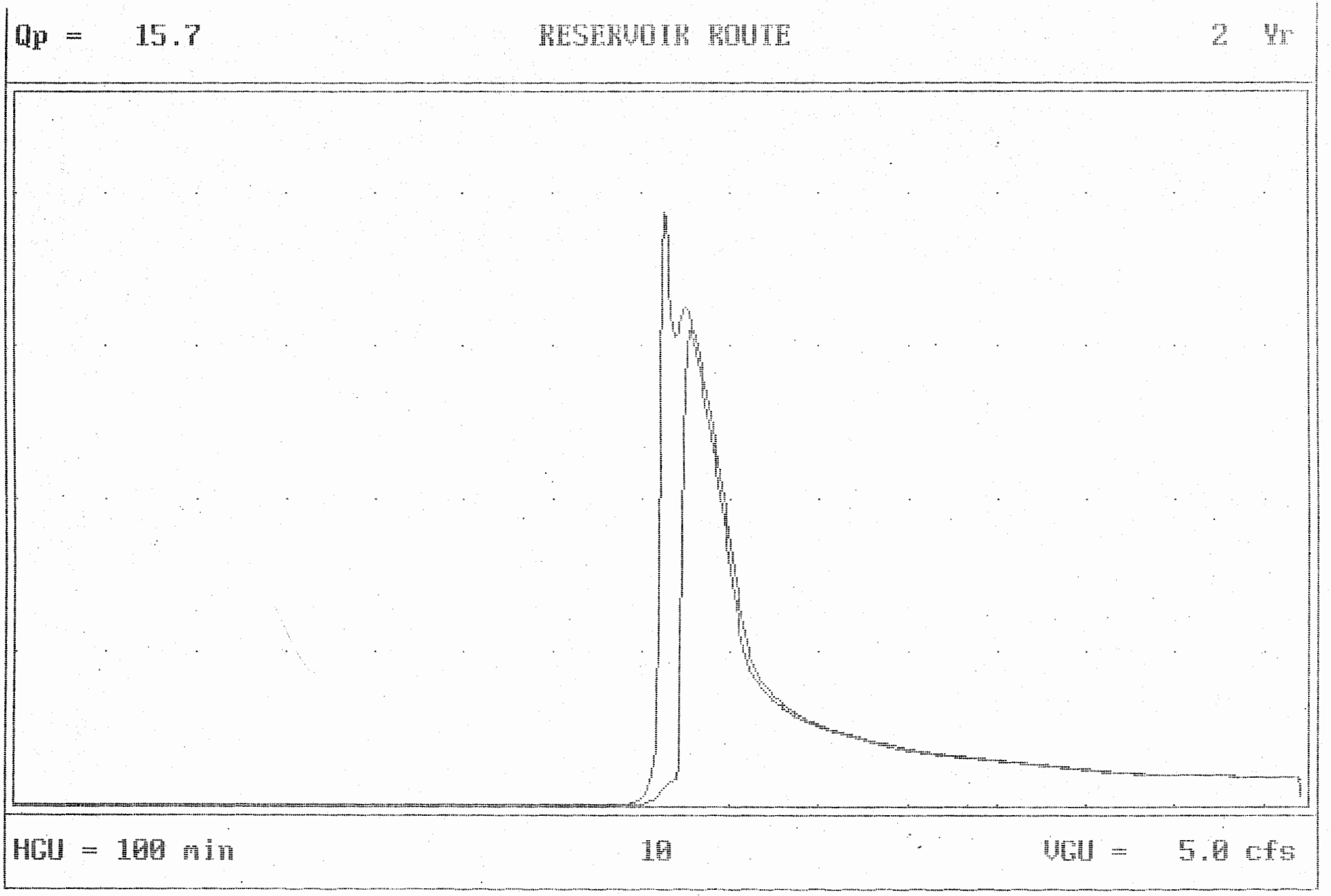
HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
19.70	1.18	1.18	363.99	366.43	1.22
19.73	1.18	1.17	363.93	366.35	1.21
19.77	1.17	1.16	363.87	366.28	1.20
19.80	1.16	1.16	363.81	366.20	1.20
19.83	1.16	1.15	363.75	366.13	1.19
19.87	1.15	1.15	363.68	366.06	1.19
19.90	1.15	1.14	363.62	365.98	1.18
19.93	1.14	1.13	363.56	365.91	1.17
19.97	1.13	1.13	363.50	365.83	1.17
20.00	1.13	1.12	363.44	365.76	1.16
20.03	1.12	1.12	363.37	365.68	1.16
20.07	1.12	1.11	363.31	365.61	1.15
20.10	1.11	1.10	363.25	365.53	1.14
20.13	1.10	1.10	363.19	365.46	1.14
20.17	1.10	1.09	363.12	365.39	1.13
20.20	1.09	1.09	363.06	365.31	1.13
20.23	1.09	1.08	363.00	365.24	1.12
20.27	1.08	1.08	362.94	365.17	1.11
20.30	1.08	1.07	362.88	365.10	1.11
20.33	1.07	1.07	362.83	365.03	1.10
20.37	1.07	1.06	362.77	364.96	1.10
20.40	1.06	1.06	362.71	364.89	1.09
20.43	1.06	1.05	362.66	364.83	1.09
20.47	1.05	1.05	362.60	364.77	1.08
20.50	1.05	1.04	362.55	364.70	1.08
20.53	1.04	1.04	362.50	364.64	1.07
20.57	1.04	1.04	362.45	364.58	1.07
20.60	1.04	1.03	362.41	364.53	1.06
20.63	1.03	1.03	362.36	364.47	1.06
20.67	1.03	1.02	362.32	364.42	1.05
20.70	1.02	1.02	362.27	364.37	1.05
20.73	1.02	1.02	362.23	364.32	1.04
20.77	1.02	1.02	362.19	364.27	1.04
20.80	1.02	1.01	362.15	364.23	1.04
20.83	1.01	1.01	362.12	364.18	1.03
20.87	1.01	1.01	362.08	364.14	1.03
20.90	1.01	1.01	362.05	364.10	1.03
20.93	1.01	1.00	362.02	364.06	1.02
20.97	1.00	1.00	361.99	364.03	1.02
21.00	1.00	1.00	361.96	363.99	1.02
21.03	1.00	1.00	361.93	363.96	1.01
21.07	1.00	0.99	361.90	363.92	1.01

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
21.10	0.99	0.99	361.88	363.89	1.01
21.13	0.99	0.99	361.85	363.86	1.01
21.17	0.99	0.99	361.83	363.84	1.00
21.20	0.99	0.99	361.80	363.81	1.00

Maximum outflow (cfs) = 15.67
Maximum storage (cu ft) = 26012
Maximum elevation (ft) = 78.74



MAX STORAGE = 26012

MAX ELEVATION = 78.74

outflow from FF. + combined, routed thru new pond

HYDROLOGIC REPORT

STORM
10 YR ~~POST DEVELOPMENT~~
ROUTED THROUGH .FF....
BASIN #1.....

BASED ON BAKER ENG. CALCULATIONS

Hyd. No. 12

Hydrograph type = RESERVOIR ROUTE Peak discharge = 41.14 cfs
Storm frequency = 10 yr Time interval = 2 min
Inflow hyd. no. = 11 Reservoir no. = 1

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
	11				
11.23	1.04	1.09	24.88	25.43	0.27
11.27	1.09	1.15	26.45	27.01	0.28
11.30	1.15	1.21	28.10	28.69	0.29
11.33	1.21	1.27	29.85	30.46	0.30
11.37	1.27	1.34	31.71	32.33	0.31
11.40	1.34	1.41	33.67	34.31	0.32
11.43	1.41	1.48	35.74	36.41	0.33
11.47	1.48	1.56	37.94	38.63	0.34
11.50	1.56	1.65	40.27	40.98	0.36
11.53	1.65	1.75	42.75	43.48	0.37
11.57	1.75	1.88	45.39	46.15	0.38
11.60	1.88	2.04	48.24	49.02	0.39
11.63	2.04	2.24	51.35	52.15	0.40
11.67	2.24	2.49	54.78	55.62	0.42
11.70	2.49	2.81	58.66	59.52	0.43
11.73	2.81	3.21	63.08	63.96	0.44
11.77	3.21	3.73	68.20	69.11	0.46
11.80	3.73	4.40	74.20	75.14	0.47
11.83	4.40	5.26	81.34	82.32	0.49
11.87	5.26	6.38	89.99	91.00	0.51
11.90	6.38	7.98	100.56	101.63	0.53
11.93	7.98	11.66	113.80	114.92	0.56
11.97	11.66	16.72	132.24	133.43	0.60
12.00	16.72	21.96	159.35	160.62	0.64
12.03	21.96	26.51	196.65	198.03	0.69

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
12.07	26.51	30.38	243.64	245.13	0.74
12.10	30.38	33.38	298.93	300.53	0.80
12.13	33.38	35.57	360.87	362.69	0.91
12.17	35.57	37.10	407.19	429.83	11.32
12.20	37.10	38.14	433.46	479.86	23.20
12.23	38.14	38.90	447.98	508.71	30.36
12.27	38.90	39.51	458.59	525.02	33.22
12.30	39.51	40.11	467.71	536.99	34.64
12.33	40.11	40.68	475.15	547.32	36.09
12.37	40.68	41.23	481.29	555.94	37.33
12.40	41.23	41.68	486.25	563.21	38.48
12.43	41.68	41.95	490.33	569.17	39.42
12.47	41.95	41.94	493.57	573.95	40.19
12.50	41.94	41.54	495.85	577.45	40.80
12.53	41.54	40.80	497.08	579.33	41.13
12.57	40.80	39.86	497.13	579.41	41.14
12.60	39.86	38.85	496.07	577.79	40.86
12.63	38.85	37.83	494.11	574.78	40.34
12.67	37.83	36.82	491.43	570.78	39.68
12.70	36.82	35.79	488.21	566.07	38.93
12.73	35.79	34.77	484.62	560.82	38.10
12.77	34.77	33.74	480.77	555.18	37.21
12.80	33.74	32.70	476.56	549.27	36.36
12.83	32.70	31.66	472.03	543.00	35.48
12.87	31.66	30.61	467.28	536.39	34.56
12.90	30.61	29.56	462.06	529.54	33.74
12.93	29.56	28.51	456.44	522.23	32.89
12.97	28.51	27.45	451.12	514.51	31.69
13.00	27.45	26.38	447.10	507.08	29.99
13.03	26.38	25.31	443.77	500.93	28.58
13.07	25.31	24.23	440.87	495.46	27.30
13.10	24.23	23.15	438.47	490.41	25.97
13.13	23.15	22.06	436.31	485.85	24.77
13.17	22.06	20.97	434.25	481.52	23.63
13.20	20.97	19.88	432.21	477.28	22.53
13.23	19.88	18.80	430.11	473.07	21.48
13.27	18.80	17.72	427.97	468.79	20.41
13.30	17.72	16.66	425.83	464.50	19.34
13.33	16.66	15.62	423.69	460.21	18.26
13.37	15.62	14.61	421.45	455.97	17.26
13.40	14.61	13.63	419.18	451.68	16.25
13.43	13.63	12.70	416.92	447.42	15.25

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
13.47	12.70	11.83	414.72	443.26	14.27
13.50	11.83	11.04	412.49	439.25	13.38
13.53	11.04	10.38	410.30	435.36	12.53
13.57	10.38	9.86	408.26	431.73	11.74
13.60	9.86	9.48	406.43	428.49	11.03
13.63	9.48	9.19	404.90	425.77	10.43
13.67	9.19	8.95	403.60	423.58	9.99
13.70	8.95	8.72	402.49	421.74	9.63
13.73	8.72	8.50	401.53	420.16	9.31
13.77	8.50	8.30	400.68	418.75	9.04
13.80	8.30	8.11	399.91	417.48	8.79
13.83	8.11	7.92	399.21	416.32	8.56
13.87	7.92	7.75	398.55	415.24	8.34
13.90	7.75	7.59	397.95	414.23	8.14
13.93	7.59	7.44	397.38	413.29	7.96
13.97	7.44	7.29	396.84	412.40	7.78
14.00	7.29	7.15	396.34	411.57	7.62
14.03	7.15	7.02	395.86	410.78	7.46
14.07	7.02	6.89	395.41	410.03	7.31
14.10	6.89	6.77	394.98	409.32	7.17
14.13	6.77	6.66	394.57	408.64	7.04
14.17	6.66	6.54	394.15	407.99	6.92
14.20	6.54	6.44	393.72	407.35	6.81
14.23	6.44	6.33	393.30	406.70	6.70
14.27	6.33	6.23	392.88	406.07	6.59
14.30	6.23	6.14	392.48	405.45	6.48
14.33	6.14	6.04	392.08	404.85	6.38
14.37	6.04	5.96	391.70	404.26	6.28
14.40	5.96	5.87	391.33	403.70	6.18
14.43	5.87	5.79	390.98	403.16	6.09
14.47	5.79	5.71	390.64	402.64	6.00
14.50	5.71	5.64	390.31	402.14	5.91
14.53	5.64	5.56	389.99	401.65	5.83
14.57	5.56	5.50	389.69	401.19	5.75
14.60	5.50	5.44	389.40	400.75	5.68
14.63	5.44	5.38	389.13	400.34	5.61
14.67	5.38	5.32	388.87	399.95	5.54
14.70	5.32	5.27	388.63	399.58	5.47
14.73	5.27	5.22	388.40	399.22	5.41
14.77	5.22	5.16	388.17	398.88	5.35
14.80	5.16	5.11	387.96	398.55	5.30
14.83	5.11	5.07	387.75	398.24	5.24

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
14.87	5.07	5.02	387.55	397.93	5.19
14.90	5.02	4.98	387.36	397.64	5.14
14.93	4.98	4.93	387.17	397.35	5.09
14.97	4.93	4.89	386.99	397.08	5.04
15.00	4.89	4.85	386.82	396.81	5.00
15.03	4.85	4.81	386.65	396.56	4.95
15.07	4.81	4.77	386.49	396.31	4.91
15.10	4.77	4.73	386.33	396.06	4.87
15.13	4.73	4.70	386.17	395.83	4.83
15.17	4.70	4.66	386.02	395.60	4.79
15.20	4.66	4.62	385.88	395.38	4.75
15.23	4.62	4.59	385.73	395.16	4.71
15.27	4.59	4.56	385.59	394.95	4.68
15.30	4.56	4.52	385.46	394.74	4.64
15.33	4.52	4.49	385.32	394.53	4.61
15.37	4.49	4.46	385.19	394.33	4.57
15.40	4.46	4.42	385.06	394.14	4.54
15.43	4.42	4.39	384.94	393.94	4.50
15.47	4.39	4.36	384.81	393.75	4.47
15.50	4.36	4.33	384.69	393.57	4.44
15.53	4.33	4.30	384.57	393.38	4.41
15.57	4.30	4.27	384.45	393.20	4.38
15.60	4.27	4.24	384.33	393.01	4.34
15.63	4.24	4.21	384.21	392.83	4.31
15.67	4.21	4.18	384.09	392.65	4.28
15.70	4.18	4.15	383.97	392.47	4.25
15.73	4.15	4.12	383.86	392.30	4.22
15.77	4.12	4.08	383.73	392.12	4.19
15.80	4.08	4.05	383.59	391.93	4.17
15.83	4.05	4.02	383.45	391.73	4.14
15.87	4.02	3.99	383.30	391.53	4.11
15.90	3.99	3.96	383.15	391.32	4.08
15.93	3.96	3.93	382.99	391.10	4.05
15.97	3.93	3.90	382.84	390.89	4.02
16.00	3.90	3.87	382.68	390.67	3.99
16.03	3.87	3.84	382.52	390.45	3.96
16.07	3.84	3.81	382.36	390.23	3.93
16.10	3.81	3.78	382.20	390.01	3.90
16.13	3.78	3.75	382.04	389.79	3.87
16.17	3.75	3.72	381.88	389.57	3.84
16.20	3.72	3.69	381.72	389.35	3.81
16.23	3.69	3.66	381.57	389.13	3.78

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
16.27	3.66	3.63	381.41	388.91	3.75
16.30	3.63	3.60	381.25	388.70	3.72
16.33	3.60	3.57	381.10	388.48	3.69
16.37	3.57	3.55	380.95	388.27	3.66
16.40	3.55	3.52	380.80	388.07	3.63
16.43	3.52	3.49	380.65	387.86	3.61
16.47	3.49	3.47	380.51	387.66	3.58
16.50	3.47	3.44	380.37	387.47	3.55
16.53	3.44	3.42	380.23	387.28	3.52
16.57	3.42	3.40	380.09	387.09	3.50
16.60	3.40	3.37	379.96	386.91	3.47
16.63	3.37	3.35	379.83	386.73	3.45
16.67	3.35	3.33	379.71	386.56	3.43
16.70	3.33	3.31	379.58	386.39	3.40
16.73	3.31	3.29	379.47	386.22	3.38
16.77	3.29	3.27	379.35	386.07	3.36
16.80	3.27	3.25	379.24	385.91	3.34
16.83	3.25	3.23	379.13	385.76	3.32
16.87	3.23	3.22	379.03	385.62	3.30
16.90	3.22	3.20	378.93	385.48	3.28
16.93	3.20	3.18	378.83	385.34	3.26
16.97	3.18	3.17	378.73	385.21	3.24
17.00	3.17	3.15	378.64	385.08	3.22
17.03	3.15	3.14	378.55	384.95	3.20
17.07	3.14	3.12	378.46	384.83	3.19
17.10	3.12	3.11	378.38	384.72	3.17
17.13	3.11	3.09	378.29	384.60	3.15
17.17	3.09	3.08	378.21	384.49	3.14
17.20	3.08	3.06	378.13	384.38	3.12
17.23	3.06	3.05	378.06	384.28	3.11
17.27	3.05	3.04	377.98	384.17	3.10
17.30	3.04	3.03	377.91	384.07	3.08
17.33	3.03	3.01	377.84	383.97	3.07
17.37	3.01	3.00	377.77	383.88	3.05
17.40	3.00	2.99	377.70	383.78	3.04
17.43	2.99	2.98	377.63	383.69	3.03
17.47	2.98	2.96	377.57	383.60	3.02
17.50	2.96	2.95	377.50	383.51	3.00
17.53	2.95	2.94	377.44	383.42	2.99
17.57	2.94	2.93	377.37	383.33	2.98
17.60	2.93	2.92	377.31	383.25	2.97
17.63	2.92	2.91	377.25	383.16	2.96

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
17.67	2.91	2.90	377.19	383.08	2.94
17.70	2.90	2.89	377.13	383.00	2.93
17.73	2.89	2.88	377.07	382.92	2.92
17.77	2.88	2.87	377.02	382.84	2.91
17.80	2.87	2.85	376.96	382.76	2.90
17.83	2.85	2.84	376.90	382.68	2.89
17.87	2.84	2.83	376.85	382.60	2.88
17.90	2.83	2.82	376.79	382.52	2.87
17.93	2.82	2.81	376.73	382.45	2.86
17.97	2.81	2.80	376.68	382.37	2.85
18.00	2.80	2.79	376.62	382.29	2.83
18.03	2.79	2.78	376.56	382.21	2.82
18.07	2.78	2.77	376.51	382.13	2.81
18.10	2.77	2.76	376.45	382.06	2.80
18.13	2.76	2.75	376.39	381.98	2.79
18.17	2.75	2.74	376.34	381.90	2.78
18.20	2.74	2.72	376.28	381.82	2.77
18.23	2.72	2.71	376.22	381.74	2.76
18.27	2.71	2.70	376.17	381.66	2.75
18.30	2.70	2.69	376.11	381.58	2.74
18.33	2.69	2.68	376.05	381.50	2.73
18.37	2.68	2.67	375.99	381.42	2.71
18.40	2.67	2.66	375.94	381.35	2.70
18.43	2.66	2.65	375.88	381.27	2.69
18.47	2.65	2.64	375.82	381.19	2.68
18.50	2.64	2.63	375.76	381.11	2.67
18.53	2.63	2.61	375.71	381.03	2.66
18.57	2.61	2.60	375.65	380.95	2.65
18.60	2.60	2.59	375.59	380.87	2.64
18.63	2.59	2.58	375.53	380.79	2.63
18.67	2.58	2.57	375.48	380.71	2.62
18.70	2.57	2.56	375.42	380.63	2.60
18.73	2.56	2.55	375.36	380.55	2.59
18.77	2.55	2.54	375.30	380.47	2.58
18.80	2.54	2.53	375.24	380.39	2.57
18.83	2.53	2.51	375.18	380.30	2.56
18.87	2.51	2.50	375.13	380.22	2.55
18.90	2.50	2.49	375.07	380.14	2.54
18.93	2.49	2.48	375.01	380.06	2.53
18.97	2.48	2.47	374.95	379.98	2.52
19.00	2.47	2.46	374.89	379.90	2.50
19.03	2.46	2.45	374.83	379.82	2.49

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
19.07	2.45	2.44	374.77	379.74	2.48
19.10	2.44	2.42	374.72	379.66	2.47
19.13	2.42	2.41	374.66	379.58	2.46
19.17	2.41	2.40	374.60	379.49	2.45
19.20	2.40	2.39	374.54	379.41	2.44
19.23	2.39	2.38	374.48	379.33	2.43
19.27	2.38	2.37	374.42	379.25	2.41
19.30	2.37	2.36	374.36	379.17	2.40
19.33	2.36	2.34	374.30	379.09	2.39
19.37	2.34	2.33	374.24	379.00	2.38
19.40	2.33	2.32	374.19	378.92	2.37
19.43	2.32	2.31	374.13	378.84	2.36
19.47	2.31	2.30	374.07	378.76	2.35
19.50	2.30	2.29	374.01	378.68	2.33
19.53	2.29	2.28	373.95	378.59	2.32
19.57	2.28	2.27	373.89	378.51	2.31
19.60	2.27	2.25	373.83	378.43	2.30
19.63	2.25	2.24	373.77	378.35	2.29
19.67	2.24	2.23	373.71	378.27	2.28
19.70	2.23	2.22	373.65	378.18	2.27
19.73	2.22	2.21	373.59	378.10	2.25
19.77	2.21	2.20	373.53	378.02	2.24
19.80	2.20	2.19	373.47	377.94	2.23
19.83	2.19	2.17	373.41	377.85	2.22
19.87	2.17	2.16	373.35	377.77	2.21
19.90	2.16	2.15	373.29	377.69	2.20
19.93	2.15	2.14	373.23	377.60	2.19
19.97	2.14	2.13	373.17	377.52	2.17
20.00	2.13	2.12	373.11	377.44	2.16
20.03	2.12	2.10	373.05	377.36	2.15
20.07	2.10	2.09	372.99	377.27	2.14
20.10	2.09	2.08	372.93	377.19	2.13
20.13	2.08	2.07	372.87	377.11	2.12
20.17	2.07	2.06	372.81	377.03	2.11
20.20	2.06	2.05	372.75	376.94	2.09
20.23	2.05	2.04	372.70	376.86	2.08
20.27	2.04	2.03	372.64	376.78	2.07
20.30	2.03	2.02	372.58	376.70	2.06
20.33	2.02	2.01	372.52	376.62	2.05
20.37	2.01	2.00	372.45	376.54	2.05
20.40	2.00	1.99	372.38	376.46	2.04
20.43	1.99	1.98	372.31	376.37	2.03

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
20.47	1.98	1.97	372.23	376.27	2.02
20.50	1.97	1.96	372.14	376.17	2.01
20.53	1.96	1.95	372.06	376.07	2.01
20.57	1.95	1.94	371.98	375.97	2.00
20.60	1.94	1.94	371.89	375.87	1.99
20.63	1.94	1.93	371.81	375.77	1.98
20.67	1.93	1.92	371.73	375.67	1.97
20.70	1.92	1.91	371.64	375.58	1.97
20.73	1.91	1.91	371.56	375.48	1.96
20.77	1.91	1.90	371.49	375.39	1.95
20.80	1.90	1.90	371.41	375.30	1.94
20.83	1.90	1.89	371.34	375.21	1.94
20.87	1.89	1.88	371.26	375.12	1.93
20.90	1.88	1.88	371.20	375.04	1.92
20.93	1.88	1.87	371.13	374.96	1.92
20.97	1.87	1.87	371.06	374.88	1.91
21.00	1.87	1.86	371.00	374.81	1.90
21.03	1.86	1.86	370.94	374.74	1.90
21.07	1.86	1.86	370.88	374.67	1.89
21.10	1.86	1.85	370.83	374.60	1.89
21.13	1.85	1.85	370.78	374.54	1.88
21.17	1.85	1.84	370.73	374.48	1.88
21.20	1.84	1.84	370.68	374.42	1.87
21.23	1.84	1.84	370.63	374.36	1.87
21.27	1.84	1.83	370.58	374.31	1.86
21.30	1.83	1.83	370.54	374.26	1.86
21.33	1.83	1.83	370.50	374.21	1.85
21.37	1.83	1.83	370.46	374.16	1.85
21.40	1.83	1.82	370.42	374.11	1.85
21.43	1.82	1.82	370.38	374.07	1.84
21.47	1.82	1.82	370.35	374.03	1.84
21.50	1.82	1.81	370.31	373.98	1.84
21.53	1.81	1.81	370.28	373.94	1.83
21.57	1.81	1.81	370.25	373.91	1.83
21.60	1.81	1.81	370.22	373.87	1.83
21.63	1.81	1.80	370.19	373.83	1.82
21.67	1.80	1.80	370.16	373.80	1.82
21.70	1.80	1.80	370.13	373.76	1.82
21.73	1.80	1.80	370.10	373.73	1.81
21.77	1.80	1.79	370.07	373.70	1.81
21.80	1.79	1.79	370.05	373.66	1.81
21.83	1.79	1.79	370.02	373.63	1.81

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
21.87	1.79	1.79	369.99	373.60	1.80
21.90	1.79	1.78	369.97	373.57	1.80
21.93	1.78	1.78	369.94	373.54	1.80
21.97	1.78	1.78	369.92	373.51	1.80
22.00	1.78	1.78	369.89	373.48	1.79
22.03	1.78	1.78	369.87	373.45	1.79
22.07	1.78	1.77	369.84	373.42	1.79
22.10	1.77	1.77	369.82	373.39	1.79
22.13	1.77	1.77	369.79	373.36	1.78
22.17	1.77	1.77	369.77	373.33	1.78
22.20	1.77	1.76	369.74	373.30	1.78
22.23	1.76	1.76	369.72	373.27	1.78
22.27	1.76	1.76	369.69	373.24	1.77
22.30	1.76	1.76	369.67	373.21	1.77
22.33	1.76	1.75	369.65	373.19	1.77
22.37	1.75	1.75	369.62	373.16	1.77
22.40	1.75	1.75	369.60	373.13	1.77
22.43	1.75	1.75	369.57	373.10	1.76
22.47	1.75	1.75	369.55	373.07	1.76
22.50	1.75	1.74	369.53	373.04	1.76
22.53	1.74	1.74	369.50	373.02	1.76
22.57	1.74	1.74	369.48	372.99	1.75
22.60	1.74	1.74	369.46	372.96	1.75
22.63	1.74	1.73	369.43	372.93	1.75
22.67	1.73	1.73	369.41	372.90	1.75
22.70	1.73	1.73	369.39	372.88	1.74
22.73	1.73	1.73	369.36	372.85	1.74
22.77	1.73	1.73	369.34	372.82	1.74
22.80	1.73	1.72	369.32	372.79	1.74
22.83	1.72	1.72	369.29	372.77	1.74
22.87	1.72	1.72	369.27	372.74	1.73
22.90	1.72	1.72	369.25	372.71	1.73
22.93	1.72	1.71	369.22	372.68	1.73
22.97	1.71	1.71	369.20	372.65	1.73
23.00	1.71	1.71	369.18	372.63	1.72
23.03	1.71	1.71	369.16	372.60	1.72
23.07	1.71	1.70	369.13	372.57	1.72
23.10	1.70	1.70	369.11	372.54	1.72
23.13	1.70	1.70	369.09	372.52	1.72
23.17	1.70	1.70	369.06	372.49	1.71
23.20	1.70	1.70	369.04	372.46	1.71
23.23	1.70	1.69	369.02	372.43	1.71

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
23.27	1.69	1.69	368.99	372.41	1.71
23.30	1.69	1.69	368.97	372.38	1.70
23.33	1.69	1.69	368.95	372.35	1.70
23.37	1.69	1.68	368.93	372.32	1.70
23.40	1.68	1.68	368.90	372.30	1.70
23.43	1.68	1.68	368.88	372.27	1.69
23.47	1.68	1.68	368.86	372.24	1.69
23.50	1.68	1.68	368.83	372.22	1.69
23.53	1.68	1.67	368.81	372.19	1.69
23.57	1.67	1.67	368.79	372.16	1.69
23.60	1.67	1.67	368.77	372.13	1.68
23.63	1.67	1.67	368.74	372.11	1.68
23.67	1.67	1.66	368.72	372.08	1.68
23.70	1.66	1.66	368.70	372.05	1.68
23.73	1.66	1.66	368.67	372.02	1.67
23.77	1.66	1.66	368.65	372.00	1.67
23.80	1.66	1.66	368.63	371.97	1.67
23.83	1.66	1.65	368.61	371.94	1.67
23.87	1.65	1.65	368.58	371.91	1.67
23.90	1.65	1.65	368.56	371.89	1.66
23.93	1.65	1.65	368.54	371.86	1.66
23.97	1.65	0.41	368.51	371.83	1.66
24.00	0.41	0.00	367.46	370.57	1.56

Maximum outflow (cfs) = 41.14
Maximum storage (cu ft) = 32296
Maximum elevation (ft) = 79.43

HYDROLOGIC REPORT

10 YR POST DEV COMBINE
W/ OUTFLOW FROM EX....
FARM FRESH BASIN.....

Hyd. No. 11

Hydrograph type = COMBINED
Storm frequency = 10 yr
Inflow hyd no's = 5 & 18 => 11

what about 12

Peak discharge = 45.31 cfs
Time interval = 2 min

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
11.23	1.04	0.00	1.04
11.27	1.09	0.00	1.09
11.30	1.15	0.00	1.15
11.33	1.21	0.00	1.21
11.37	1.27	0.00	1.27
11.40	1.34	0.00	1.34
11.43	1.41	0.00	1.41
11.47	1.48	0.00	1.48
11.50	1.56	0.00	1.56
11.53	1.65	0.00	1.65
11.57	1.75	0.00	1.75
11.60	1.88	0.00	1.88
11.63	2.04	0.00	2.04
11.67	2.24	0.00	2.24
11.70	2.49	0.00	2.49
11.73	2.81	0.00	2.81
11.77	3.21	0.00	3.21
11.80	3.73	0.00	3.73
11.83	4.40	0.00	4.40
11.87	5.26	0.00	5.26
11.90	6.38	0.00	6.38
11.93	7.73	0.93	8.66
11.97	9.25	7.83	17.08
12.00	10.84	16.68	27.52
12.03	12.45	24.01	36.46
12.07	14.09	28.26	42.35
12.10	15.75	29.29	45.04
12.13	17.43	27.89	45.31

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
12.17	19.11	25.00	44.12
12.20	20.80	21.58	42.38
12.23	22.47	18.11	40.57
12.27	24.11	14.99	39.10
12.30	25.70	12.44	38.14
12.33	27.22	10.53	37.75
12.37	28.65	9.06	37.72
12.40	29.97	8.03	38.00
12.43	31.11	7.21	38.33
12.47	32.02	6.55	38.57
12.50	32.62	5.99	38.61
12.53	32.82	5.52	38.34
12.57	32.64	5.18	37.82
12.60	32.21	4.86	37.07
12.63	31.66	4.56	36.22
12.67	31.07	4.29	35.36
12.70	30.44	4.05	34.49
12.73	29.78	3.83	33.61
12.77	29.08	3.64	32.72
12.80	28.34	3.48	31.82
12.83	27.58	3.33	30.91
12.87	26.78	3.21	29.99
12.90	25.96	3.09	29.05
12.93	25.11	3.00	28.11
12.97	24.24	2.92	27.17
13.00	23.35	2.85	26.20
13.03	22.44	2.78	25.22
13.07	21.51	2.71	24.23
13.10	20.57	2.64	23.22
13.13	19.62	2.58	22.20
13.17	18.66	2.52	21.18
13.20	17.69	2.46	20.15
13.23	16.71	2.40	19.11
13.27	15.73	2.35	18.08
13.30	14.75	2.30	17.05
13.33	13.78	2.25	16.04
13.37	12.83	2.21	15.04
13.40	11.90	2.17	14.06
13.43	10.99	2.12	13.12
13.47	10.13	2.08	12.22
13.50	9.33	2.05	11.37
13.53	8.61	2.01	10.62
13.57	8.00	1.97	9.98
13.60	7.54	1.94	9.48
13.63	7.21	1.90	9.12
13.67	6.98	1.87	8.85

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
13.70	6.79	1.83	8.62
13.73	6.60	1.80	8.40
13.77	6.43	1.77	8.20
13.80	6.27	1.74	8.01
13.83	6.12	1.71	7.83
13.87	5.98	1.68	7.66
13.90	5.84	1.66	7.50
13.93	5.72	1.63	7.35
13.97	5.60	1.61	7.20
14.00	5.49	1.58	7.07
14.03	5.38	1.55	6.94
14.07	5.28	1.53	6.81
14.10	5.19	1.50	6.69
14.13	5.10	1.48	6.58
14.17	5.01	1.46	6.47
14.20	4.93	1.44	6.36
14.23	4.85	1.42	6.26
14.27	4.77	1.40	6.17
14.30	4.69	1.38	6.07
14.33	4.62	1.37	5.99
14.37	4.55	1.35	5.90
14.40	4.48	1.34	5.82
14.43	4.41	1.33	5.74
14.47	4.35	1.32	5.67
14.50	4.29	1.31	5.59
14.53	4.23	1.30	5.52
14.57	4.17	1.29	5.46
14.60	4.12	1.28	5.39
14.63	4.07	1.27	5.33
14.67	4.02	1.26	5.27
14.70	3.97	1.25	5.22
14.73	3.92	1.24	5.16
14.77	3.88	1.23	5.11
14.80	3.84	1.22	5.06
14.83	3.80	1.21	5.01
14.87	3.76	1.20	4.96
14.90	3.72	1.19	4.92
14.93	3.69	1.19	4.87
14.97	3.65	1.18	4.83
15.00	3.62	1.17	4.79
15.03	3.59	1.16	4.75
15.07	3.55	1.15	4.71
15.10	3.52	1.14	4.67
15.13	3.50	1.14	4.63
15.17	3.47	1.13	4.59
15.20	3.44	1.12	4.56

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
15.23	3.41	1.11	4.52
15.27	3.39	1.10	4.49
15.30	3.36	1.09	4.46
15.33	3.34	1.09	4.42
15.37	3.31	1.08	4.39
15.40	3.29	1.07	4.36
15.43	3.27	1.07	4.33
15.47	3.24	1.06	4.30
15.50	3.22	1.05	4.27
15.53	3.20	1.05	4.25
15.57	3.17	1.04	4.22
15.60	3.15	1.04	4.19
15.63	3.13	1.03	4.16
15.67	3.11	1.02	4.13
15.70	3.09	1.02	4.10
15.73	3.06	1.01	4.07
15.77	3.04	1.00	4.04
15.80	3.02	1.00	4.02
15.83	3.00	0.99	3.99
15.87	2.98	0.98	3.96
15.90	2.95	0.97	3.93
15.93	2.93	0.97	3.90
15.97	2.91	0.96	3.87
16.00	2.89	0.95	3.84
16.03	2.86	0.94	3.81
16.07	2.84	0.93	3.78
16.10	2.82	0.93	3.74
16.13	2.80	0.92	3.71
16.17	2.77	0.91	3.69
16.20	2.75	0.90	3.66
16.23	2.73	0.90	3.63
16.27	2.71	0.89	3.60
16.30	2.69	0.88	3.57
16.33	2.67	0.88	3.54
16.37	2.64	0.87	3.52
16.40	2.62	0.87	3.49
16.43	2.60	0.86	3.47
16.47	2.58	0.86	3.44
16.50	2.57	0.85	3.42
16.53	2.55	0.85	3.39
16.57	2.53	0.84	3.37
16.60	2.51	0.84	3.35
16.63	2.49	0.83	3.33
16.67	2.48	0.83	3.31
16.70	2.46	0.83	3.29
16.73	2.44	0.82	3.27

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
16.77	2.43	0.82	3.25
16.80	2.42	0.81	3.23
16.83	2.40	0.81	3.21
16.87	2.39	0.81	3.19
16.90	2.37	0.80	3.18
16.93	2.36	0.80	3.16
16.97	2.35	0.80	3.14
17.00	2.34	0.79	3.13
17.03	2.33	0.79	3.11
17.07	2.31	0.79	3.10
17.10	2.30	0.78	3.09
17.13	2.29	0.78	3.07
17.17	2.28	0.78	3.06
17.20	2.27	0.77	3.05
17.23	2.26	0.77	3.03
17.27	2.25	0.77	3.02
17.30	2.24	0.76	3.01
17.33	2.24	0.76	3.00
17.37	2.23	0.76	2.98
17.40	2.22	0.75	2.97
17.43	2.21	0.75	2.96
17.47	2.20	0.75	2.95
17.50	2.19	0.74	2.94
17.53	2.18	0.74	2.93
17.57	2.18	0.74	2.91
17.60	2.17	0.74	2.90
17.63	2.16	0.73	2.89
17.67	2.15	0.73	2.88
17.70	2.14	0.73	2.87
17.73	2.14	0.72	2.86
17.77	2.13	0.72	2.85
17.80	2.12	0.72	2.84
17.83	2.11	0.71	2.83
17.87	2.10	0.71	2.82
17.90	2.10	0.71	2.80
17.93	2.09	0.71	2.79
17.97	2.08	0.70	2.78
18.00	2.07	0.70	2.77
18.03	2.06	0.70	2.76
18.07	2.06	0.69	2.75
18.10	2.05	0.69	2.74
18.13	2.04	0.69	2.73
18.17	2.03	0.68	2.72
18.20	2.02	0.68	2.70
18.23	2.02	0.68	2.69
18.27	2.01	0.68	2.68

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
18.30	2.00	0.67	2.67
18.33	1.99	0.67	2.66
18.37	1.98	0.67	2.65
18.40	1.97	0.66	2.64
18.43	1.97	0.66	2.63
18.47	1.96	0.66	2.62
18.50	1.95	0.65	2.60
18.53	1.94	0.65	2.59
18.57	1.93	0.65	2.58
18.60	1.93	0.65	2.57
18.63	1.92	0.64	2.56
18.67	1.91	0.64	2.55
18.70	1.90	0.64	2.54
18.73	1.89	0.63	2.53
18.77	1.88	0.63	2.51
18.80	1.88	0.63	2.50
18.83	1.87	0.62	2.49
18.87	1.86	0.62	2.48
18.90	1.85	0.62	2.47
18.93	1.84	0.62	2.46
18.97	1.83	0.61	2.45
19.00	1.83	0.61	2.43
19.03	1.82	0.61	2.42
19.07	1.81	0.60	2.41
19.10	1.80	0.60	2.40
19.13	1.79	0.60	2.39
19.17	1.78	0.59	2.38
19.20	1.78	0.59	2.37
19.23	1.77	0.59	2.36
19.27	1.76	0.58	2.34
19.30	1.75	0.58	2.33
19.33	1.74	0.58	2.32
19.37	1.73	0.58	2.31
19.40	1.73	0.57	2.30
19.43	1.72	0.57	2.29
19.47	1.71	0.57	2.28
19.50	1.70	0.56	2.26
19.53	1.69	0.56	2.25
19.57	1.68	0.56	2.24
19.60	1.68	0.55	2.23
19.63	1.67	0.55	2.22
19.67	1.66	0.55	2.21
19.70	1.65	0.55	2.20
19.73	1.64	0.54	2.18
19.77	1.63	0.54	2.17
19.80	1.62	0.54	2.16

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
19.83	1.62	0.53	2.15
19.87	1.61	0.53	2.14
19.90	1.60	0.53	2.13
19.93	1.59	0.52	2.12
19.97	1.58	0.52	2.10
20.00	1.57	0.52	2.09
20.03	1.57	0.52	2.08
20.07	1.56	0.51	2.07
20.10	1.55	0.51	2.06
20.13	1.54	0.51	2.05
20.17	1.53	0.50	2.04
20.20	1.52	0.50	2.02
20.23	1.52	0.50	2.01
20.27	1.51	0.50	2.00
20.30	1.50	0.49	1.99
20.33	1.49	0.49	1.98
20.37	1.48	0.49	1.97
20.40	1.48	0.49	1.96
20.43	1.47	0.49	1.96
20.47	1.46	0.48	1.95
20.50	1.45	0.48	1.94
20.53	1.45	0.48	1.93
20.57	1.44	0.48	1.92
20.60	1.44	0.48	1.91
20.63	1.43	0.48	1.91
20.67	1.42	0.48	1.90
20.70	1.42	0.48	1.89
20.73	1.41	0.47	1.89
20.77	1.41	0.47	1.88
20.80	1.40	0.47	1.88
20.83	1.40	0.47	1.87
20.87	1.40	0.47	1.87
20.90	1.39	0.47	1.86
20.93	1.39	0.47	1.86
20.97	1.38	0.47	1.85
21.00	1.38	0.47	1.85
21.03	1.38	0.47	1.84
21.07	1.37	0.47	1.84
21.10	1.37	0.47	1.84
21.13	1.37	0.46	1.83
21.17	1.37	0.46	1.83
21.20	1.36	0.46	1.83
21.23	1.36	0.46	1.82
21.27	1.36	0.46	1.82
21.30	1.36	0.46	1.82
21.33	1.35	0.46	1.81

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
21.37	1.35	0.46	1.81
21.40	1.35	0.46	1.81
21.43	1.35	0.46	1.81
21.47	1.35	0.46	1.80
21.50	1.34	0.46	1.80
21.53	1.34	0.46	1.80
21.57	1.34	0.46	1.80
21.60	1.34	0.46	1.80
21.63	1.34	0.45	1.79
21.67	1.34	0.45	1.79
21.70	1.34	0.45	1.79
21.73	1.33	0.45	1.79
21.77	1.33	0.45	1.78
21.80	1.33	0.45	1.78
21.83	1.33	0.45	1.78
21.87	1.33	0.45	1.78
21.90	1.33	0.45	1.78
21.93	1.32	0.45	1.77
21.97	1.32	0.45	1.77
22.00	1.32	0.45	1.77
22.03	1.32	0.45	1.77
22.07	1.32	0.45	1.76
22.10	1.32	0.45	1.76
22.13	1.31	0.45	1.76
22.17	1.31	0.45	1.76
22.20	1.31	0.44	1.76
22.23	1.31	0.44	1.75
22.27	1.31	0.44	1.75
22.30	1.31	0.44	1.75
22.33	1.31	0.44	1.75
22.37	1.30	0.44	1.75
22.40	1.30	0.44	1.74
22.43	1.30	0.44	1.74
22.47	1.30	0.44	1.74
22.50	1.30	0.44	1.74
22.53	1.30	0.44	1.73
22.57	1.29	0.44	1.73
22.60	1.29	0.44	1.73
22.63	1.29	0.44	1.73
22.67	1.29	0.44	1.73
22.70	1.29	0.44	1.72
22.73	1.29	0.43	1.72
22.77	1.28	0.43	1.72
22.80	1.28	0.43	1.72
22.83	1.28	0.43	1.71
22.87	1.28	0.43	1.71

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
22.90	1.28	0.43	1.71
22.93	1.28	0.43	1.71
22.97	1.28	0.43	1.71
23.00	1.27	0.43	1.70
23.03	1.27	0.43	1.70
23.07	1.27	0.43	1.70
23.10	1.27	0.43	1.70
23.13	1.27	0.43	1.69
23.17	1.27	0.43	1.69
23.20	1.26	0.43	1.69
23.23	1.26	0.43	1.69
23.27	1.26	0.43	1.69
23.30	1.26	0.42	1.68
23.33	1.26	0.42	1.68
23.37	1.26	0.42	1.68
23.40	1.25	0.42	1.68
23.43	1.25	0.42	1.67
23.47	1.25	0.42	1.67
23.50	1.25	0.42	1.67
23.53	1.25	0.42	1.67
23.57	1.25	0.42	1.67
23.60	1.24	0.42	1.66
23.63	1.24	0.42	1.66
23.67	1.24	0.42	1.66
23.70	1.24	0.42	1.66
23.73	1.24	0.42	1.65
23.77	1.24	0.42	1.65
23.80	1.23	0.42	1.65
23.83	1.23	0.42	1.65
23.87	1.23	0.41	1.65
23.90	1.23	0.41	1.64
23.93	1.23	0.41	1.64
23.97	1.23	0.41	1.64

HYDROLOGIC REPORT

10 YR POST DEVELPMENT. ?
ROUTED THROUGH.EX.....
FARM FRESH BASIN.....

Hyd. No. 18

Hydrograph type = RESERVOIR ROUTE Peak discharge = 29.29 cfs
Storm frequency = 10 yr Time interval = 2 min
Inflow hyd. no. = 17 Reservoir no. = 2

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
10.33	1.00	1.03	115.13	115.13	0.00
10.37	1.03	1.05	117.16	117.16	0.00
10.40	1.05	1.08	119.24	119.24	0.00
10.43	1.08	1.10	121.36	121.36	0.00
10.47	1.10	1.12	123.54	123.54	0.00
10.50	1.12	1.15	125.76	125.76	0.00
10.53	1.15	1.17	128.03	128.03	0.00
10.57	1.17	1.20	130.36	130.36	0.00
10.60	1.20	1.23	132.74	132.74	0.00
10.63	1.23	1.27	135.17	135.17	0.00
10.67	1.27	1.30	137.67	137.67	0.00
10.70	1.30	1.34	140.23	140.23	0.00
10.73	1.34	1.37	142.87	142.87	0.00
10.77	1.37	1.41	145.58	145.58	0.00
10.80	1.41	1.45	148.37	148.37	0.00
10.83	1.45	1.49	151.23	151.23	0.00
10.87	1.49	1.54	154.18	154.18	0.00
10.90	1.54	1.58	157.21	157.21	0.00
10.93	1.58	1.62	160.32	160.32	0.00
10.97	1.62	1.66	163.52	163.52	0.00
11.00	1.66	1.67	166.80	166.80	0.00
11.03	1.67	1.68	170.13	170.13	0.00
11.07	1.68	1.70	173.48	173.48	0.00
11.10	1.70	1.73	176.86	176.86	0.00
11.13	1.73	1.82	180.29	180.29	0.00

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
11.17	1.82	1.91	183.83	183.83	0.00
11.20	1.91	2.02	187.56	187.56	0.00
11.23	2.02	2.13	191.49	191.49	0.00
11.27	2.13	2.24	195.64	195.64	0.00
11.30	2.24	2.36	200.01	200.01	0.00
11.33	2.36	2.48	204.61	204.61	0.00
11.37	2.48	2.58	209.45	209.45	0.00
11.40	2.58	2.68	214.52	214.52	0.00
11.43	2.68	2.79	219.78	219.78	0.00
11.47	2.79	2.89	225.25	225.25	0.00
11.50	2.89	3.08	230.93	230.93	0.00
11.53	3.08	3.43	236.90	236.90	0.00
11.57	3.43	4.02	243.42	243.42	0.00
11.60	4.02	4.97	250.87	250.87	0.00
11.63	4.97	6.26	259.86	259.86	0.00
11.67	6.26	7.89	271.10	271.10	0.00
11.70	7.89	9.84	285.25	285.25	0.00
11.73	9.84	12.07	302.98	302.98	0.00
11.77	12.07	14.72	324.88	324.88	0.00
11.80	14.72	17.97	351.67	351.67	0.00
11.83	17.97	21.99	384.37	384.37	0.00
11.87	21.99	26.97	424.33	424.33	0.00
11.90	26.97	32.28	473.30	473.30	0.00
11.93	32.28	36.64	530.69	532.55	0.93
11.97	36.64	38.76	583.95	599.61	7.83
12.00	38.76	37.70	625.99	659.35	16.68
12.03	37.70	33.80	654.43	702.44	24.01
12.07	33.80	28.33	669.41	725.92	28.26
12.10	28.33	22.61	672.96	731.54	29.29
12.13	22.61	17.42	668.12	723.90	27.89
12.17	17.42	12.99	658.14	708.15	25.00
12.20	12.99	9.54	645.39	688.55	21.58
12.23	9.54	7.28	631.70	667.92	18.11
12.27	7.28	6.12	618.54	648.52	14.99
12.30	6.12	5.63	607.06	631.94	12.44
12.33	5.63	5.37	597.76	618.81	10.53
12.37	5.37	5.10	590.63	608.76	9.06
12.40	5.10	4.84	585.05	601.10	8.03
12.43	4.84	4.57	580.55	594.98	7.21
12.47	4.57	4.30	576.87	589.96	6.55
12.50	4.30	4.04	573.77	585.74	5.99
12.53	4.04	3.79	571.08	582.11	5.52

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
12.57	3.79	3.57	568.55	578.91	5.18
12.60	3.57	3.37	566.20	575.91	4.86
12.63	3.37	3.22	564.01	573.14	4.56
12.67	3.22	3.09	562.02	570.61	4.29
12.70	3.09	2.99	560.23	568.33	4.05
12.73	2.99	2.90	558.63	566.30	3.83
12.77	2.90	2.83	557.23	564.52	3.64
12.80	2.83	2.77	556.01	562.96	3.48
12.83	2.77	2.70	554.93	561.60	3.33
12.87	2.70	2.64	553.99	560.40	3.21
12.90	2.64	2.58	553.16	559.34	3.09
12.93	2.58	2.52	552.38	558.38	3.00
12.97	2.52	2.46	551.64	557.49	2.92
13.00	2.46	2.40	550.92	556.62	2.85
13.03	2.40	2.34	550.22	555.78	2.78
13.07	2.34	2.29	549.54	554.96	2.71
13.10	2.29	2.23	548.88	554.17	2.64
13.13	2.23	2.19	548.24	553.40	2.58
13.17	2.19	2.15	547.63	552.67	2.52
13.20	2.15	2.11	547.05	551.97	2.46
13.23	2.11	2.07	546.50	551.30	2.40
13.27	2.07	2.04	545.98	550.68	2.35
13.30	2.04	2.00	545.49	550.09	2.30
13.33	2.00	1.97	545.02	549.53	2.25
13.37	1.97	1.94	544.58	549.00	2.21
13.40	1.94	1.90	544.16	548.49	2.17
13.43	1.90	1.87	543.76	548.00	2.12
13.47	1.87	1.84	543.36	547.53	2.08
13.50	1.84	1.81	542.98	547.07	2.05
13.53	1.81	1.77	542.61	546.63	2.01
13.57	1.77	1.74	542.25	546.19	1.97
13.60	1.74	1.71	541.89	545.76	1.94
13.63	1.71	1.68	541.55	545.35	1.90
13.67	1.68	1.66	541.21	544.95	1.87
13.70	1.66	1.63	540.89	544.56	1.83
13.73	1.63	1.61	540.58	544.18	1.80
13.77	1.61	1.58	540.27	543.82	1.77
13.80	1.58	1.56	539.98	543.47	1.74
13.83	1.56	1.54	539.70	543.13	1.71
13.87	1.54	1.51	539.43	542.80	1.68
13.90	1.51	1.49	539.16	542.47	1.66
13.93	1.49	1.46	538.90	542.16	1.63

HYDROGRAPH DISCHARGE TABLE Cont'd

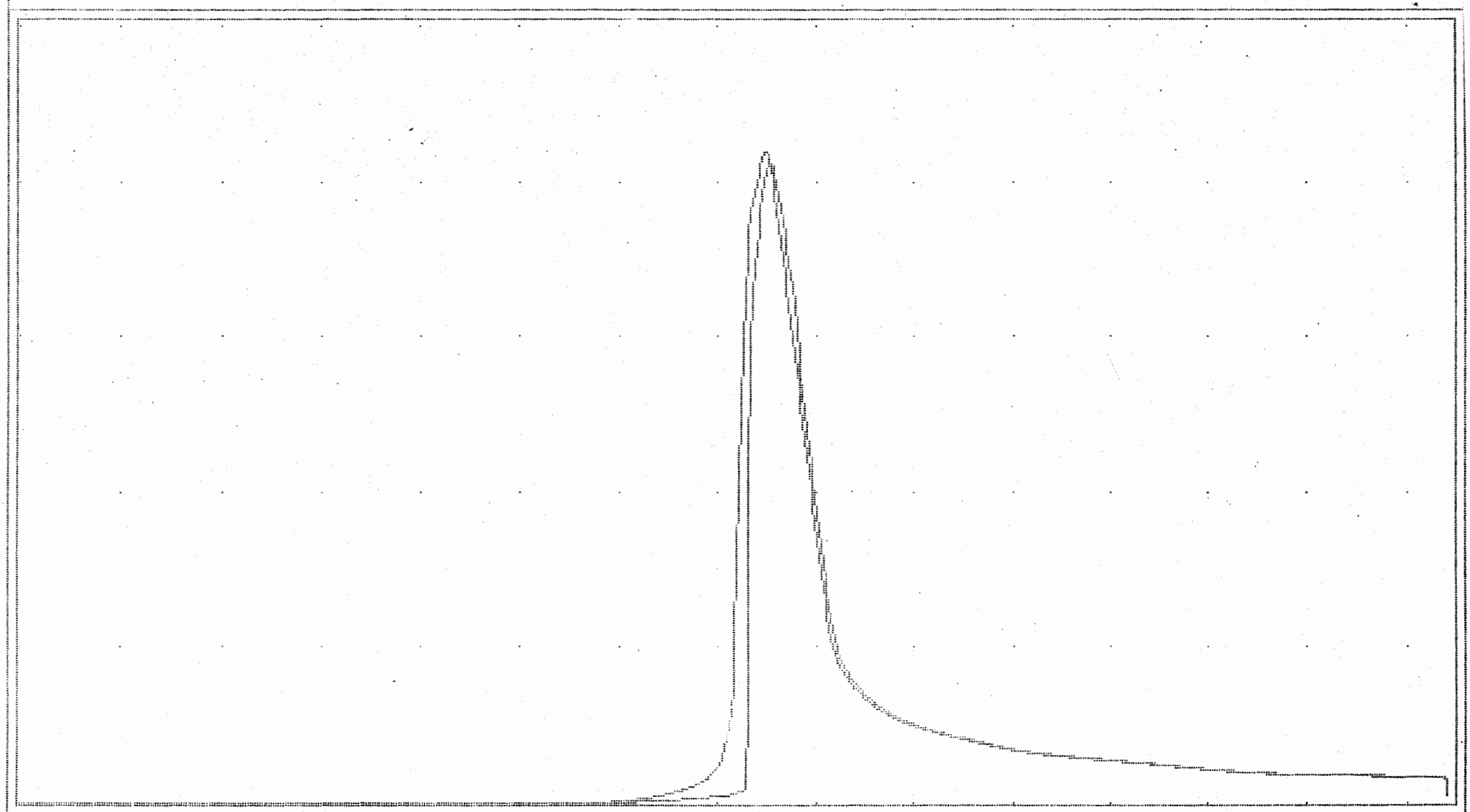
TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
13.97	1.46	1.44	538.64	541.85	1.61
14.00	1.44	1.42	538.39	541.54	1.58
14.03	1.42	1.40	538.14	541.24	1.55
14.07	1.40	1.37	537.89	540.95	1.53
14.10	1.37	1.36	537.65	540.66	1.50
14.13	1.36	1.34	537.42	540.38	1.48
14.17	1.34	1.33	537.20	540.12	1.46
14.20	1.33	1.32	536.99	539.87	1.44
14.23	1.32	1.31	536.80	539.63	1.42
14.27	1.31	1.30	536.62	539.42	1.40
14.30	1.30	1.29	536.46	539.22	1.38
14.33	1.29	1.28	536.30	539.04	1.37
14.37	1.28	1.27	536.17	538.87	1.35
14.40	1.27	1.26	536.04	538.72	1.34
14.43	1.26	1.26	535.91	538.57	1.33
14.47	1.26	1.25	535.80	538.43	1.32
14.50	1.25	1.24	535.69	538.30	1.31
14.53	1.24	1.23	535.59	538.18	1.30
14.57	1.23	1.22	535.49	538.06	1.29
14.60	1.22	1.21	535.39	537.94	1.28
14.63	1.21	1.21	535.29	537.83	1.27
14.67	1.21	1.20	535.20	537.72	1.26
14.70	1.20	1.19	535.11	537.61	1.25
14.73	1.19	1.18	535.02	537.50	1.24
14.77	1.18	1.17	534.93	537.39	1.23
14.80	1.17	1.16	534.85	537.29	1.22
14.83	1.16	1.16	534.76	537.19	1.21
14.87	1.16	1.15	534.68	537.08	1.20
14.90	1.15	1.14	534.59	536.98	1.19
14.93	1.14	1.13	534.51	536.88	1.19
14.97	1.13	1.12	534.42	536.78	1.18
15.00	1.12	1.11	534.34	536.68	1.17
15.03	1.11	1.11	534.26	536.58	1.16
15.07	1.11	1.10	534.18	536.48	1.15
15.10	1.10	1.09	534.09	536.38	1.14
15.13	1.09	1.08	534.01	536.28	1.14
15.17	1.08	1.07	533.93	536.18	1.13
15.20	1.07	1.06	533.84	536.08	1.12
15.23	1.06	1.06	533.76	535.98	1.11
15.27	1.06	1.05	533.68	535.88	1.10
15.30	1.05	1.04	533.60	535.78	1.09
15.33	1.04	1.03	533.52	535.69	1.09

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
15.37	1.03	1.02	533.43	535.59	1.08
15.40	1.02	1.01	533.35	535.49	1.07
15.43	1.01	1.01	533.25	535.38	1.07
15.47	1.01	1.00	533.15	535.27	1.06
15.50	1.00	0.99	533.05	535.16	1.05
15.53	0.99	0.98	532.94	535.04	1.05
15.57	0.98	0.97	532.82	534.91	1.04
15.60	0.97	0.96	532.71	534.78	1.04
15.63	0.96	0.96	532.58	534.64	1.03
15.67	0.96	0.95	532.46	534.50	1.02
15.70	0.95	0.94	532.33	534.36	1.02
15.73	0.94	0.93	532.20	534.22	1.01
15.77	0.93	0.92	532.06	534.07	1.00

Maximum outflow (cfs) = 29.29
Maximum storage (cu ft) = 42135
Maximum elevation (ft) = 106.78

Qp = 41.1 RESERVOIR ROUTE 10 Yr



HCU = 100 min 12 VCU = 10.0 cfs

MAX STORAGE = 32296

MAX ELEVATION = 79.43

HYDROLOGIC REPORT

100YR ~~POST DEVELOPMENT~~ STORM
ROUTED THROUGH EX.....
FARM FRESH BASIN.....

BASED ON BAKER ENG CALCULATIONS

Hyd. No. 20

Hydrograph type = RESERVOIR ROUTE Peak discharge = 60.99 cfs
Storm frequency = 100 yr Time interval = 2 min
Inflow hyd. no. = 19 Reservoir no. = 2

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
8.43	1.01	1.03	162.91	162.91	0.00
8.47	1.03	1.05	164.95	164.95	0.00
8.50	1.05	1.06	167.03	167.03	0.00
8.53	1.06	1.08	169.14	169.14	0.00
8.57	1.08	1.10	171.28	171.28	0.00
8.60	1.10	1.11	173.46	173.46	0.00
8.63	1.11	1.13	175.67	175.67	0.00
8.67	1.13	1.15	177.91	177.91	0.00
8.70	1.15	1.16	180.19	180.19	0.00
8.73	1.16	1.18	182.50	182.50	0.00
8.77	1.18	1.20	184.84	184.84	0.00
8.80	1.20	1.22	187.22	187.22	0.00
8.83	1.22	1.23	189.64	189.64	0.00
8.87	1.23	1.25	192.09	192.09	0.00
8.90	1.25	1.27	194.57	194.57	0.00
8.93	1.27	1.29	197.09	197.09	0.00
8.97	1.29	1.30	199.65	199.65	0.00
9.00	1.30	1.32	202.24	202.24	0.00
9.03	1.32	1.34	204.86	204.86	0.00
9.07	1.34	1.35	207.52	207.52	0.00
9.10	1.35	1.36	210.21	210.21	0.00
9.13	1.36	1.37	212.91	212.91	0.00
9.17	1.37	1.37	215.64	215.64	0.00
9.20	1.37	1.37	218.37	218.37	0.00
9.23	1.37	1.38	221.12	221.12	0.00

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
9.27	1.38	1.38	223.87	223.87	0.00
9.30	1.38	1.39	226.63	226.63	0.00
9.33	1.39	1.39	229.40	229.40	0.00
9.37	1.39	1.39	232.17	232.17	0.00
9.40	1.39	1.40	234.95	234.95	0.00
9.43	1.40	1.40	237.74	237.74	0.00
9.47	1.40	1.40	240.54	240.54	0.00
9.50	1.40	1.41	243.34	243.34	0.00
9.53	1.41	1.41	246.15	246.15	0.00
9.57	1.41	1.43	248.97	248.97	0.00
9.60	1.43	1.44	251.81	251.81	0.00
9.63	1.44	1.46	254.68	254.68	0.00
9.67	1.46	1.49	257.58	257.58	0.00
9.70	1.49	1.52	260.54	260.54	0.00
9.73	1.52	1.54	263.54	263.54	0.00
9.77	1.54	1.57	266.60	266.60	0.00
9.80	1.57	1.60	269.72	269.72	0.00
9.83	1.60	1.63	272.89	272.89	0.00
9.87	1.63	1.65	276.11	276.11	0.00
9.90	1.65	1.68	279.39	279.39	0.00
9.93	1.68	1.71	282.72	282.72	0.00
9.97	1.71	1.74	286.11	286.11	0.00
10.00	1.74	1.77	289.56	289.56	0.00
10.03	1.77	1.80	293.06	293.06	0.00
10.07	1.80	1.83	296.62	296.62	0.00
10.10	1.83	1.86	300.24	300.24	0.00
10.13	1.86	1.90	303.94	303.94	0.00
10.17	1.90	1.94	307.70	307.70	0.00
10.20	1.94	1.98	311.55	311.55	0.00
10.23	1.98	2.02	315.47	315.47	0.00
10.27	2.02	2.07	319.48	319.48	0.00
10.30	2.07	2.11	323.57	323.57	0.00
10.33	2.11	2.15	327.74	327.74	0.00
10.37	2.15	2.19	332.00	332.00	0.00
10.40	2.19	2.23	336.34	336.34	0.00
10.43	2.23	2.28	340.76	340.76	0.00
10.47	2.28	2.32	345.27	345.27	0.00
10.50	2.32	2.36	349.86	349.86	0.00
10.53	2.36	2.41	354.55	354.55	0.00
10.57	2.41	2.46	359.32	359.32	0.00
10.60	2.46	2.52	364.19	364.19	0.00
10.63	2.52	2.58	369.17	369.17	0.00

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
10.67	2.58	2.65	374.27	374.27	0.00
10.70	2.65	2.72	379.50	379.50	0.00
10.73	2.72	2.79	384.87	384.87	0.00
10.77	2.79	2.86	390.38	390.38	0.00
10.80	2.86	2.93	396.02	396.02	0.00
10.83	2.93	3.00	401.81	401.81	0.00
10.87	3.00	3.07	407.73	407.73	0.00
10.90	3.07	3.14	413.80	413.80	0.00
10.93	3.14	3.21	420.01	420.01	0.00
10.97	3.21	3.28	426.36	426.36	0.00
11.00	3.28	3.24	432.86	432.86	0.00
11.03	3.24	3.20	439.38	439.38	0.00
11.07	3.20	3.19	445.82	445.82	0.00
11.10	3.19	3.39	452.21	452.21	0.00
11.13	3.39	3.60	458.78	458.78	0.00
11.17	3.60	3.83	465.77	465.77	0.00
11.20	3.83	4.07	473.21	473.21	0.00
11.23	4.07	4.31	481.11	481.11	0.00
11.27	4.31	4.48	489.49	489.49	0.00
11.30	4.48	4.65	498.28	498.28	0.00
11.33	4.65	4.82	507.41	507.41	0.00
11.37	4.82	4.99	516.52	516.88	0.18
11.40	4.99	5.16	525.06	526.33	0.63
11.43	5.16	5.33	533.10	535.21	1.06
11.47	5.33	5.51	540.09	543.59	1.75
11.50	5.51	5.97	546.19	550.93	2.37
11.53	5.97	6.91	551.78	557.66	2.94
11.57	6.91	8.66	557.34	564.66	3.66
11.60	8.66	11.09	563.84	572.91	4.54
11.63	11.09	14.23	572.19	583.59	5.70
11.67	14.23	17.88	582.41	597.51	7.55
11.70	17.88	21.88	594.72	614.52	9.90
11.73	21.88	26.09	608.82	634.48	12.83
11.77	26.09	31.05	624.26	656.79	16.26
11.80	31.05	37.33	640.71	681.40	20.35
11.83	37.33	45.46	658.75	709.09	25.17
11.87	45.46	55.18	679.19	741.54	31.18
11.90	55.18	64.52	703.22	779.83	38.30
11.93	64.52	69.79	730.30	822.92	46.31
11.97	69.79	67.30	755.70	864.61	54.46
12.00	67.30	57.12	772.51	892.80	60.14
12.03	57.12	43.35	774.95	896.93	60.99

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
12.07	43.35	30.20	762.20	875.42	56.61
12.10	30.20	20.07	738.17	835.76	48.79
12.13	20.07	13.62	708.73	788.45	39.86
12.17	13.62	10.52	679.74	742.43	31.35
12.20	10.52	9.42	655.36	703.88	24.26
12.23	9.42	9.00	636.63	675.30	19.33
12.27	9.00	8.59	623.06	655.05	16.00
12.30	8.59	8.17	613.09	640.65	13.78
12.33	8.17	7.76	605.58	629.85	12.13
12.37	7.76	7.34	599.67	621.51	10.92
12.40	7.34	6.93	594.89	614.77	9.94
12.43	6.93	6.51	590.92	609.16	9.12
12.47	6.51	6.10	587.44	604.36	8.46
12.50	6.10	5.69	584.27	600.05	7.89
12.53	5.69	5.33	581.35	596.06	7.36
12.57	5.33	5.04	578.64	592.37	6.87
12.60	5.04	4.81	576.16	589.00	6.42
12.63	4.81	4.64	573.97	586.01	6.02
12.67	4.64	4.52	572.07	583.42	5.68
12.70	4.52	4.42	570.38	581.23	5.42
12.73	4.42	4.32	568.87	579.31	5.22
12.77	4.32	4.23	567.53	577.61	5.04
12.80	4.23	4.13	566.33	576.08	4.88
12.83	4.13	4.04	565.23	574.68	4.73
12.87	4.04	3.94	564.22	573.40	4.59
12.90	3.94	3.85	563.27	572.19	4.46
12.93	3.85	3.75	562.38	571.06	4.34
12.97	3.75	3.66	561.52	569.98	4.23
13.00	3.66	3.56	560.70	568.93	4.11
13.03	3.56	3.48	559.91	567.93	4.01
13.07	3.48	3.40	559.14	566.95	3.90
13.10	3.40	3.33	558.41	566.02	3.80
13.13	3.33	3.27	557.72	565.14	3.71
13.17	3.27	3.21	557.07	564.31	3.62
13.20	3.21	3.16	556.47	563.55	3.54
13.23	3.16	3.11	555.91	562.84	3.47
13.27	3.11	3.06	555.39	562.18	3.39
13.30	3.06	3.01	554.90	561.56	3.33
13.33	3.01	2.96	554.44	560.97	3.27
13.37	2.96	2.90	553.99	560.40	3.20
13.40	2.90	2.85	553.56	559.85	3.15
13.43	2.85	2.80	553.14	559.31	3.09

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
13.47	2.80	2.75	552.72	558.79	3.03
13.50	2.75	2.70	552.30	558.28	2.99
13.53	2.70	2.65	551.85	557.75	2.95
13.57	2.65	2.61	551.41	557.21	2.90
13.60	2.61	2.56	550.95	556.66	2.85
13.63	2.56	2.52	550.51	556.12	2.81
13.67	2.52	2.49	550.06	555.59	2.76
13.70	2.49	2.45	549.63	555.07	2.72
13.73	2.45	2.41	549.21	554.57	2.68
13.77	2.41	2.38	548.80	554.07	2.64
13.80	2.38	2.34	548.40	553.59	2.59
13.83	2.34	2.30	548.00	553.11	2.55
13.87	2.30	2.27	547.61	552.64	2.52
13.90	2.27	2.23	547.23	552.18	2.48
13.93	2.23	2.19	546.85	551.72	2.44
13.97	2.19	2.16	546.47	551.27	2.40
14.00	2.16	2.12	546.09	550.82	2.36
14.03	2.12	2.09	545.72	550.37	2.32
14.07	2.09	2.06	545.36	549.93	2.29
14.10	2.06	2.04	545.00	549.50	2.25
14.13	2.04	2.02	544.67	549.10	2.22
14.17	2.02	2.00	544.35	548.72	2.18
14.20	2.00	1.99	544.07	548.38	2.16
14.23	1.99	1.98	543.80	548.06	2.13
14.27	1.98	1.97	543.56	547.77	2.10
14.30	1.97	1.95	543.34	547.50	2.08
14.33	1.95	1.94	543.14	547.26	2.06
14.37	1.94	1.93	542.94	547.03	2.04
14.40	1.93	1.91	542.76	546.81	2.02
14.43	1.91	1.90	542.59	546.60	2.01
14.47	1.90	1.89	542.43	546.41	1.99
14.50	1.89	1.88	542.27	546.22	1.97
14.53	1.88	1.86	542.12	546.03	1.96
14.57	1.86	1.85	541.97	545.86	1.94
14.60	1.85	1.84	541.83	545.68	1.93
14.63	1.84	1.82	541.69	545.51	1.91
14.67	1.82	1.81	541.55	545.35	1.90
14.70	1.81	1.80	541.41	545.18	1.89
14.73	1.80	1.79	541.28	545.02	1.87
14.77	1.79	1.77	541.14	544.86	1.86
14.80	1.77	1.76	541.01	544.70	1.85
14.83	1.76	1.75	540.88	544.54	1.83

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
14.87	1.75	1.73	540.75	544.39	1.82
14.90	1.73	1.72	540.62	544.23	1.81
14.93	1.72	1.71	540.49	544.08	1.79
14.97	1.71	1.70	540.36	543.92	1.78
15.00	1.70	1.68	540.23	543.77	1.77
15.03	1.68	1.67	540.11	543.61	1.75
15.07	1.67	1.66	539.98	543.46	1.74
15.10	1.66	1.64	539.85	543.31	1.73
15.13	1.64	1.63	539.72	543.15	1.72
15.17	1.63	1.62	539.60	543.00	1.70
15.20	1.62	1.61	539.47	542.85	1.69
15.23	1.61	1.59	539.34	542.70	1.68
15.27	1.59	1.58	539.22	542.54	1.66
15.30	1.58	1.57	539.09	542.39	1.65
15.33	1.57	1.56	538.96	542.24	1.64
15.37	1.56	1.54	538.84	542.09	1.62
15.40	1.54	1.53	538.71	541.93	1.61
15.43	1.53	1.52	538.58	541.78	1.60
15.47	1.52	1.50	538.46	541.63	1.59
15.50	1.50	1.49	538.33	541.48	1.57
15.53	1.49	1.48	538.20	541.32	1.56
15.57	1.48	1.47	538.08	541.17	1.55
15.60	1.47	1.45	537.95	541.02	1.54
15.63	1.45	1.44	537.82	540.87	1.52
15.67	1.44	1.43	537.70	540.72	1.51
15.70	1.43	1.41	537.57	540.56	1.50
15.73	1.41	1.40	537.44	540.41	1.48
15.77	1.40	1.39	537.32	540.26	1.47
15.80	1.39	1.38	537.19	540.11	1.46
15.83	1.38	1.36	537.06	539.95	1.45
15.87	1.36	1.35	536.94	539.80	1.43
15.90	1.35	1.34	536.81	539.65	1.42
15.93	1.34	1.32	536.68	539.50	1.41
15.97	1.32	1.31	536.56	539.34	1.39
16.00	1.31	1.30	536.43	539.19	1.38
16.03	1.30	1.29	536.30	539.04	1.37
16.07	1.29	1.28	536.18	538.89	1.36
16.10	1.28	1.27	536.06	538.74	1.34
16.13	1.27	1.26	535.94	538.60	1.33
16.17	1.26	1.26	535.83	538.47	1.32
16.20	1.26	1.25	535.73	538.35	1.31
16.23	1.25	1.25	535.64	538.24	1.30

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
16.27	1.25	1.24	535.56	538.14	1.29
16.30	1.24	1.24	535.48	538.05	1.28
16.33	1.24	1.23	535.41	537.96	1.28
16.37	1.23	1.23	535.34	537.88	1.27
16.40	1.23	1.23	535.28	537.81	1.26
16.43	1.23	1.22	535.22	537.73	1.26
16.47	1.22	1.22	535.16	537.66	1.25
16.50	1.22	1.21	535.11	537.60	1.25
16.53	1.21	1.21	535.05	537.53	1.24
16.57	1.21	1.20	535.00	537.47	1.24
16.60	1.20	1.20	534.95	537.41	1.23
16.63	1.20	1.19	534.90	537.35	1.23
16.67	1.19	1.19	534.85	537.29	1.22
16.70	1.19	1.18	534.80	537.23	1.22
16.73	1.18	1.18	534.75	537.17	1.21
16.77	1.18	1.18	534.70	537.12	1.21
16.80	1.18	1.17	534.66	537.06	1.20
16.83	1.17	1.17	534.61	537.00	1.20
16.87	1.17	1.16	534.56	536.95	1.19
16.90	1.16	1.16	534.52	536.89	1.19
16.93	1.16	1.15	534.47	536.84	1.18
16.97	1.15	1.15	534.43	536.78	1.18
17.00	1.15	1.14	534.38	536.72	1.17
17.03	1.14	1.14	534.33	536.67	1.17
17.07	1.14	1.13	534.29	536.61	1.16
17.10	1.13	1.13	534.24	536.56	1.16
17.13	1.13	1.12	534.20	536.51	1.15
17.17	1.12	1.12	534.15	536.45	1.15
17.20	1.12	1.12	534.11	536.40	1.15
17.23	1.12	1.11	534.06	536.34	1.14
17.27	1.11	1.11	534.02	536.29	1.14
17.30	1.11	1.10	533.97	536.23	1.13
17.33	1.10	1.10	533.92	536.18	1.13
17.37	1.10	1.09	533.88	536.12	1.12
17.40	1.09	1.09	533.83	536.07	1.12
17.43	1.09	1.08	533.79	536.01	1.11
17.47	1.08	1.08	533.74	535.96	1.11
17.50	1.08	1.07	533.70	535.91	1.10
17.53	1.07	1.07	533.65	535.85	1.10
17.57	1.07	1.07	533.61	535.80	1.09
17.60	1.07	1.06	533.56	535.74	1.09
17.63	1.06	1.06	533.52	535.69	1.09

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
17.67	1.06	1.05	533.47	535.63	1.08
17.70	1.05	1.05	533.43	535.58	1.08
17.73	1.05	1.04	533.38	535.53	1.07
17.77	1.04	1.04	533.33	535.47	1.07
17.80	1.04	1.03	533.28	535.41	1.07
17.83	1.03	1.03	533.22	535.35	1.06
17.87	1.03	1.02	533.16	535.28	1.06
17.90	1.02	1.02	533.10	535.21	1.06
17.93	1.02	1.01	533.03	535.14	1.05
17.97	1.01	1.01	532.97	535.07	1.05
18.00	1.01	1.01	532.90	534.99	1.05
18.03	1.01	1.00	532.83	534.91	1.04
18.07	1.00	1.00	532.75	534.83	1.04
18.10	1.00	0.99	532.68	534.75	1.04
18.13	0.99	0.99	532.61	534.67	1.03
18.17	0.99	0.98	532.53	534.58	1.03
18.20	0.98	0.98	532.45	534.50	1.02
18.23	0.98	0.97	532.38	534.41	1.02
18.27	0.97	0.97	532.30	534.33	1.01
18.30	0.97	0.96	532.22	534.24	1.01
18.33	0.96	0.96	532.14	534.15	1.01
18.37	0.96	0.95	532.06	534.06	1.00

Maximum outflow (cfs) = 60.99
Maximum storage (cu ft) = 50156
Maximum elevation (ft) = 107.91

HYDROLOGIC REPORT

100 YR POST DEV COMBIN
W/ OUTFLOW FROM EX....
FARM FRESH BASIN.....

Hyd. No. 13

Hydrograph type = COMBINED
Storm frequency = 100 yr
Inflow hyd no's = 7 & 20

Peak discharge = 88.20 cfs
Time interval = 2 min

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
9.63	1.01	0.00	1.01
9.67	1.04	0.00	1.04
9.70	1.06	0.00	1.06
9.73	1.09	0.00	1.09
9.77	1.11	0.00	1.11
9.80	1.14	0.00	1.14
9.83	1.17	0.00	1.17
9.87	1.19	0.00	1.19
9.90	1.22	0.00	1.22
9.93	1.25	0.00	1.25
9.97	1.28	0.00	1.28
10.00	1.31	0.00	1.31
10.03	1.34	0.00	1.34
10.07	1.37	0.00	1.37
10.10	1.40	0.00	1.40
10.13	1.44	0.00	1.44
10.17	1.47	0.00	1.47
10.20	1.51	0.00	1.51
10.23	1.55	0.00	1.55
10.27	1.59	0.00	1.59
10.30	1.63	0.00	1.63
10.33	1.67	0.00	1.67
10.37	1.71	0.00	1.71
10.40	1.76	0.00	1.76
10.43	1.80	0.00	1.80
10.47	1.85	0.00	1.85
10.50	1.90	0.00	1.90
10.53	1.95	0.00	1.95

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
10.57	2.01	0.00	2.01
10.60	2.06	0.00	2.06
10.63	2.12	0.00	2.12
10.67	2.18	0.00	2.18
10.70	2.24	0.00	2.24
10.73	2.31	0.00	2.31
10.77	2.38	0.00	2.38
10.80	2.45	0.00	2.45
10.83	2.52	0.00	2.52
10.87	2.60	0.00	2.60
10.90	2.68	0.00	2.68
10.93	2.76	0.00	2.76
10.97	2.85	0.00	2.85
11.00	2.94	0.00	2.94
11.03	3.03	0.00	3.03
11.07	3.12	0.00	3.12
11.10	3.22	0.00	3.22
11.13	3.32	0.00	3.32
11.17	3.43	0.00	3.43
11.20	3.54	0.00	3.54
11.23	3.66	0.00	3.66
11.27	3.78	0.00	3.78
11.30	3.91	0.00	3.91
11.33	4.05	0.00	4.05
11.37	4.20	0.18	4.37
11.40	4.35	0.63	4.98
11.43	4.51	1.06	5.57
11.47	4.68	1.75	6.44
11.50	4.86	2.37	7.23
11.53	5.07	2.94	8.01
11.57	5.31	3.66	8.97
11.60	5.60	4.54	10.14
11.63	5.96	5.70	11.66
11.67	6.43	7.55	13.98
11.70	7.00	9.90	16.91
11.73	7.72	12.83	20.55
11.77	8.60	16.26	24.87
11.80	9.72	20.35	30.07
11.83	11.14	25.17	36.31
11.87	12.94	31.18	44.11
11.90	15.21	38.30	53.51
11.93	17.92	46.31	64.23
11.97	20.92	54.46	75.38
12.00	24.05	60.14	84.19
12.03	27.21	60.99	88.20
12.07	30.40	56.61	87.01

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
12.10	33.62	48.79	82.41
12.13	36.87	39.86	76.73
12.17	40.12	31.35	71.46
12.20	43.34	24.26	67.60
12.23	46.52	19.33	65.85
12.27	49.61	16.00	65.60
12.30	52.58	13.78	66.35
12.33	55.38	12.13	67.52
12.37	57.98	10.92	68.90
12.40	60.33	9.94	70.26
12.43	62.31	9.12	71.43
12.47	63.82	8.46	72.28
12.50	64.71	7.89	72.60
12.53	64.86	7.36	72.22
12.57	64.29	6.87	71.16
12.60	63.26	6.42	69.68
12.63	62.03	6.02	68.05
12.67	60.72	5.68	66.39
12.70	59.34	5.42	64.76
12.73	57.89	5.22	63.11
12.77	56.39	5.04	61.42
12.80	54.82	4.88	59.70
12.83	53.20	4.73	57.93
12.87	51.54	4.59	56.13
12.90	49.83	4.46	54.29
12.93	48.07	4.34	52.41
12.97	46.28	4.23	50.50
13.00	44.45	4.11	48.57
13.03	42.60	4.01	46.60
13.07	40.71	3.90	44.62
13.10	38.81	3.80	42.62
13.13	36.89	3.71	40.60
13.17	34.96	3.62	38.58
13.20	33.01	3.54	36.55
13.23	31.06	3.47	34.52
13.27	29.11	3.39	32.51
13.30	27.18	3.33	30.51
13.33	25.28	3.27	28.54
13.37	23.41	3.20	26.62
13.40	21.60	3.15	24.75
13.43	19.87	3.09	22.95
13.47	18.22	3.03	21.25
13.50	16.70	2.99	19.69
13.53	15.35	2.95	18.29
13.57	14.22	2.90	17.12
13.60	13.37	2.85	16.22

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
13.63	12.77	2.81	15.58
13.67	12.35	2.76	15.11
13.70	11.99	2.72	14.71
13.73	11.66	2.68	14.34
13.77	11.35	2.64	13.98
13.80	11.06	2.59	13.65
13.83	10.78	2.55	13.34
13.87	10.53	2.52	13.04
13.90	10.28	2.48	12.76
13.93	10.06	2.44	12.50
13.97	9.84	2.40	12.24
14.00	9.64	2.36	12.01
14.03	9.45	2.32	11.78
14.07	9.27	2.29	11.56
14.10	9.10	2.25	11.35
14.13	8.94	2.22	11.16
14.17	8.79	2.18	10.97
14.20	8.63	2.16	10.79
14.23	8.49	2.13	10.62
14.27	8.35	2.10	10.45
14.30	8.21	2.08	10.29
14.33	8.08	2.06	10.14
14.37	7.95	2.04	9.99
14.40	7.83	2.02	9.85
14.43	7.71	2.01	9.72
14.47	7.60	1.99	9.59
14.50	7.49	1.97	9.46
14.53	7.38	1.96	9.34
14.57	7.28	1.94	9.22
14.60	7.19	1.93	9.11
14.63	7.09	1.91	9.01
14.67	7.00	1.90	8.90
14.70	6.92	1.89	8.80
14.73	6.84	1.87	8.71
14.77	6.76	1.86	8.62
14.80	6.68	1.85	8.53
14.83	6.61	1.83	8.44
14.87	6.54	1.82	8.36
14.90	6.48	1.81	8.28
14.93	6.41	1.79	8.20
14.97	6.35	1.78	8.13
15.00	6.29	1.77	8.06
15.03	6.23	1.75	7.99
15.07	6.18	1.74	7.92
15.10	6.12	1.73	7.85
15.13	6.07	1.72	7.79

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
15.17	6.02	1.70	7.72
15.20	5.97	1.69	7.66
15.23	5.92	1.68	7.60
15.27	5.88	1.66	7.54
15.30	5.83	1.65	7.48
15.33	5.79	1.64	7.43
15.37	5.74	1.62	7.37
15.40	5.70	1.61	7.31
15.43	5.66	1.60	7.26
15.47	5.62	1.59	7.21
15.50	5.58	1.57	7.15
15.53	5.54	1.56	7.10
15.57	5.50	1.55	7.05
15.60	5.46	1.54	6.99
15.63	5.42	1.52	6.94
15.67	5.38	1.51	6.89
15.70	5.34	1.50	6.84
15.73	5.30	1.48	6.78
15.77	5.26	1.47	6.73
15.80	5.22	1.46	6.68
15.83	5.18	1.45	6.63
15.87	5.14	1.43	6.58
15.90	5.10	1.42	6.52
15.93	5.06	1.41	6.47
15.97	5.02	1.39	6.42
16.00	4.98	1.38	6.37
16.03	4.95	1.37	6.31
16.07	4.91	1.36	6.26
16.10	4.87	1.34	6.21
16.13	4.83	1.33	6.16
16.17	4.79	1.32	6.11
16.20	4.75	1.31	6.06
16.23	4.71	1.30	6.01
16.27	4.67	1.29	5.96
16.30	4.63	1.28	5.92
16.33	4.60	1.28	5.87
16.37	4.56	1.27	5.83
16.40	4.52	1.26	5.79
16.43	4.49	1.26	5.75
16.47	4.45	1.25	5.71
16.50	4.42	1.25	5.67
16.53	4.39	1.24	5.63
16.57	4.35	1.24	5.59
16.60	4.32	1.23	5.55
16.63	4.29	1.23	5.52
16.67	4.26	1.22	5.48

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
16.70	4.23	1.22	5.45
16.73	4.21	1.21	5.42
16.77	4.18	1.21	5.39
16.80	4.15	1.20	5.36
16.83	4.13	1.20	5.33
16.87	4.11	1.19	5.30
16.90	4.08	1.19	5.27
16.93	4.06	1.18	5.24
16.97	4.04	1.18	5.22
17.00	4.02	1.17	5.19
17.03	4.00	1.17	5.17
17.07	3.98	1.16	5.14
17.10	3.96	1.16	5.12
17.13	3.94	1.15	5.09
17.17	3.92	1.15	5.07
17.20	3.90	1.15	5.05
17.23	3.89	1.14	5.03
17.27	3.87	1.14	5.01
17.30	3.85	1.13	4.98
17.33	3.84	1.13	4.96
17.37	3.82	1.12	4.94
17.40	3.81	1.12	4.92
17.43	3.79	1.11	4.90
17.47	3.78	1.11	4.88
17.50	3.76	1.10	4.87
17.53	3.75	1.10	4.85
17.57	3.73	1.09	4.83
17.60	3.72	1.09	4.81
17.63	3.70	1.09	4.79
17.67	3.69	1.08	4.77
17.70	3.68	1.08	4.75
17.73	3.66	1.07	4.73
17.77	3.65	1.07	4.72
17.80	3.63	1.07	4.70
17.83	3.62	1.06	4.68
17.87	3.60	1.06	4.67
17.90	3.59	1.06	4.65
17.93	3.58	1.05	4.63
17.97	3.56	1.05	4.61
18.00	3.55	1.05	4.59
18.03	3.53	1.04	4.58
18.07	3.52	1.04	4.56
18.10	3.50	1.04	4.54
18.13	3.49	1.03	4.52
18.17	3.48	1.03	4.50
18.20	3.46	1.02	4.49

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
18.23	3.45	1.02	4.47
18.27	3.43	1.01	4.45
18.30	3.42	1.01	4.43
18.33	3.40	1.01	4.41
18.37	3.39	1.00	4.39
18.40	3.38	1.00	4.37
18.43	3.36	0.99	4.36
18.47	3.35	0.99	4.34
18.50	3.33	0.98	4.32
18.53	3.32	0.98	4.30
18.57	3.30	0.98	4.28
18.60	3.29	0.97	4.26
18.63	3.28	0.97	4.24
18.67	3.26	0.96	4.22
18.70	3.25	0.96	4.20
18.73	3.23	0.95	4.19
18.77	3.22	0.95	4.17
18.80	3.20	0.94	4.15
18.83	3.19	0.94	4.13
18.87	3.17	0.94	4.11
18.90	3.16	0.93	4.09
18.93	3.15	0.93	4.07
18.97	3.13	0.92	4.05
19.00	3.12	0.92	4.03
19.03	3.10	0.91	4.01
19.07	3.09	0.91	4.00
19.10	3.07	0.90	3.98
19.13	3.06	0.90	3.96
19.17	3.04	0.89	3.94
19.20	3.03	0.89	3.92
19.23	3.02	0.89	3.90
19.27	3.00	0.88	3.88
19.30	2.99	0.88	3.86
19.33	2.97	0.87	3.84
19.37	2.96	0.87	3.82
19.40	2.94	0.86	3.80
19.43	2.93	0.86	3.79
19.47	2.91	0.85	3.77
19.50	2.90	0.85	3.75
19.53	2.88	0.84	3.73
19.57	2.87	0.84	3.71
19.60	2.85	0.83	3.69
19.63	2.84	0.83	3.67
19.67	2.83	0.83	3.65
19.70	2.81	0.82	3.63
19.73	2.80	0.82	3.61

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
19.77	2.78	0.81	3.59
19.80	2.77	0.81	3.57
19.83	2.75	0.80	3.56
19.87	2.74	0.80	3.54
19.90	2.72	0.79	3.52
19.93	2.71	0.79	3.50
19.97	2.69	0.78	3.48
20.00	2.68	0.78	3.46
20.03	2.66	0.78	3.44
20.07	2.65	0.77	3.42
20.10	2.64	0.77	3.40
20.13	2.62	0.76	3.38
20.17	2.61	0.76	3.36
20.20	2.59	0.75	3.35
20.23	2.58	0.75	3.33
20.27	2.56	0.75	3.31
20.30	2.55	0.74	3.29
20.33	2.54	0.74	3.28
20.37	2.52	0.74	3.26
20.40	2.51	0.74	3.25
20.43	2.50	0.73	3.23
20.47	2.49	0.73	3.22
20.50	2.47	0.73	3.20
20.53	2.46	0.73	3.19
20.57	2.45	0.73	3.18
20.60	2.44	0.72	3.16
20.63	2.43	0.72	3.15
20.67	2.42	0.72	3.14
20.70	2.41	0.72	3.13
20.73	2.40	0.72	3.12
20.77	2.39	0.72	3.11
20.80	2.39	0.71	3.10
20.83	2.38	0.71	3.09
20.87	2.37	0.71	3.08
20.90	2.36	0.71	3.07
20.93	2.36	0.71	3.07
20.97	2.35	0.71	3.06
21.00	2.34	0.71	3.05
21.03	2.34	0.71	3.04
21.07	2.33	0.70	3.04
21.10	2.33	0.70	3.03
21.13	2.32	0.70	3.03
21.17	2.32	0.70	3.02
21.20	2.31	0.70	3.01
21.23	2.31	0.70	3.01
21.27	2.31	0.70	3.00

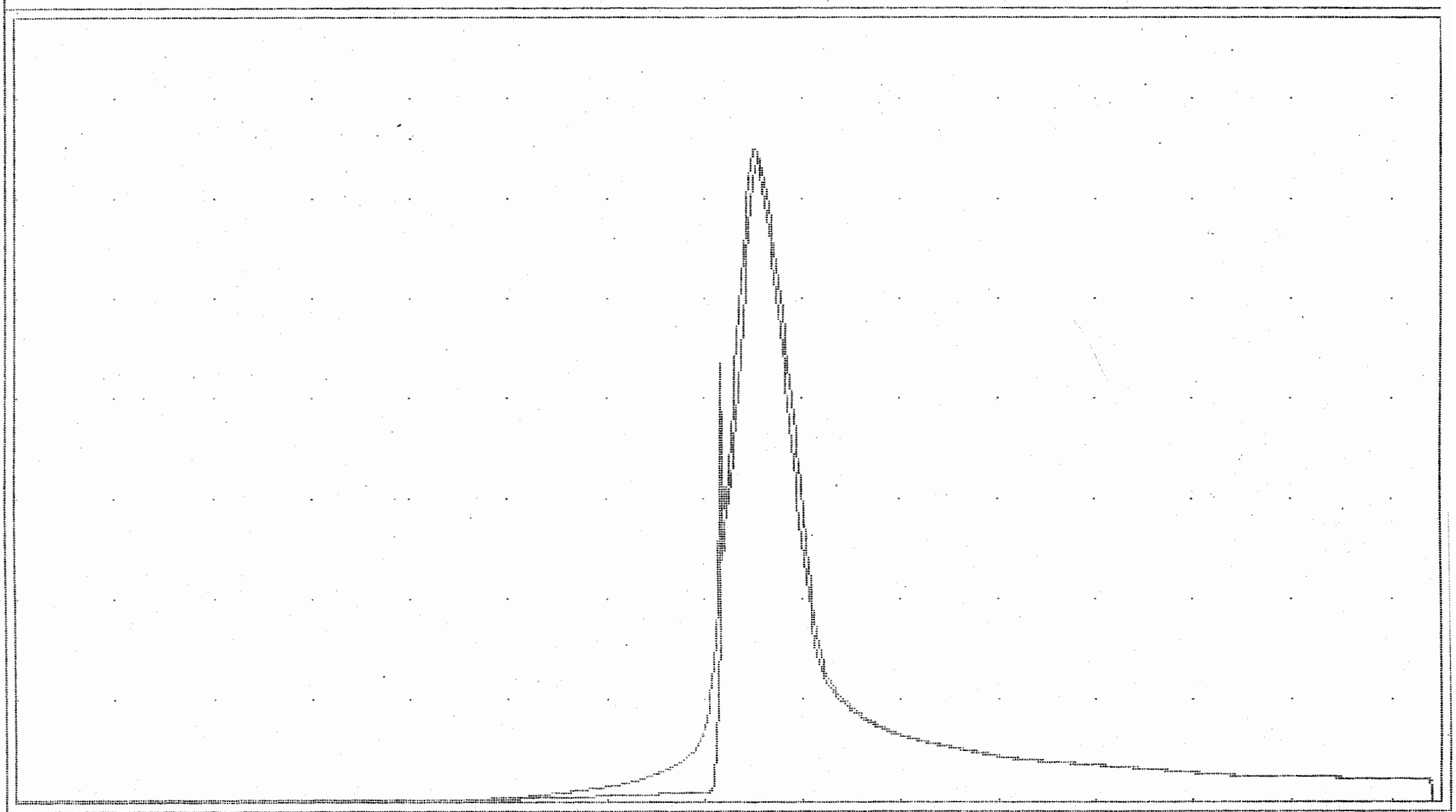
HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
21.30	2.30	0.70	3.00
21.33	2.30	0.70	2.99
21.37	2.29	0.69	2.99
21.40	2.29	0.69	2.99
21.43	2.29	0.69	2.98
21.47	2.28	0.69	2.98
21.50	2.28	0.69	2.97
21.53	2.28	0.69	2.97
21.57	2.28	0.69	2.96
21.60	2.27	0.69	2.96
21.63	2.27	0.69	2.96
21.67	2.27	0.69	2.95
21.70	2.26	0.69	2.95
21.73	2.26	0.68	2.95
21.77	2.26	0.68	2.94
21.80	2.26	0.68	2.94
21.83	2.25	0.68	2.93
21.87	2.25	0.68	2.93
21.90	2.25	0.68	2.93
21.93	2.25	0.68	2.92
21.97	2.24	0.68	2.92
22.00	2.24	0.68	2.92
22.03	2.24	0.68	2.91
22.07	2.23	0.67	2.91
22.10	2.23	0.67	2.90
22.13	2.23	0.67	2.90
22.17	2.23	0.67	2.90
22.20	2.22	0.67	2.89
22.23	2.22	0.67	2.89
22.27	2.22	0.67	2.89
22.30	2.21	0.67	2.88
22.33	2.21	0.67	2.88
22.37	2.21	0.67	2.88
22.40	2.21	0.67	2.87
22.43	2.20	0.66	2.87
22.47	2.20	0.66	2.86
22.50	2.20	0.66	2.86
22.53	2.19	0.66	2.86
22.57	2.19	0.66	2.85
22.60	2.19	0.66	2.85
22.63	2.19	0.66	2.85
22.67	2.18	0.66	2.84
22.70	2.18	0.66	2.84
22.73	2.18	0.66	2.83
22.77	2.17	0.66	2.83
22.80	2.17	0.65	2.83

HYDROGRAPH DISCHARGE TABLE Cont'd

TIME hrs	INFLOW cfs	HYDROGRAPHS cfs	OUTFLOW HYDROGRAPH cfs
22.83	2.17	0.65	2.82
22.87	2.17	0.65	2.82
22.90	2.16	0.65	2.82
22.93	2.16	0.65	2.81
22.97	2.16	0.65	2.81
23.00	2.15	0.65	2.80
23.03	2.15	0.65	2.80
23.07	2.15	0.65	2.80
23.10	2.15	0.65	2.79
23.13	2.14	0.65	2.79
23.17	2.14	0.64	2.78
23.20	2.14	0.64	2.78
23.23	2.13	0.64	2.78
23.27	2.13	0.64	2.77
23.30	2.13	0.64	2.77
23.33	2.13	0.64	2.77
23.37	2.12	0.64	2.76
23.40	2.12	0.64	2.76
23.43	2.12	0.64	2.75
23.47	2.11	0.64	2.75
23.50	2.11	0.64	2.75
23.53	2.11	0.63	2.74
23.57	2.11	0.63	2.74
23.60	2.10	0.63	2.74
23.63	2.10	0.63	2.73
23.67	2.10	0.63	2.73
23.70	2.09	0.63	2.72
23.73	2.09	0.63	2.72
23.77	2.09	0.63	2.72
23.80	2.09	0.63	2.71
23.83	2.08	0.63	2.71
23.87	2.08	0.63	2.71
23.90	2.08	0.62	2.70
23.93	2.07	0.62	2.70
23.97	2.07	0.62	2.69

Qp = 63.9 RESERVOIR ROUTE 100 Yr



HCU = 100 min 14 VCU = 10.0 cfs

MAX STORAGE = 37619

MAX ELEVATION = 79.99

HYDROLOGIC REPORT

100 YR POST DEVELOPMEN
ROUTED THROUGH .....
BASIN #1.....

Hyd. No. 14

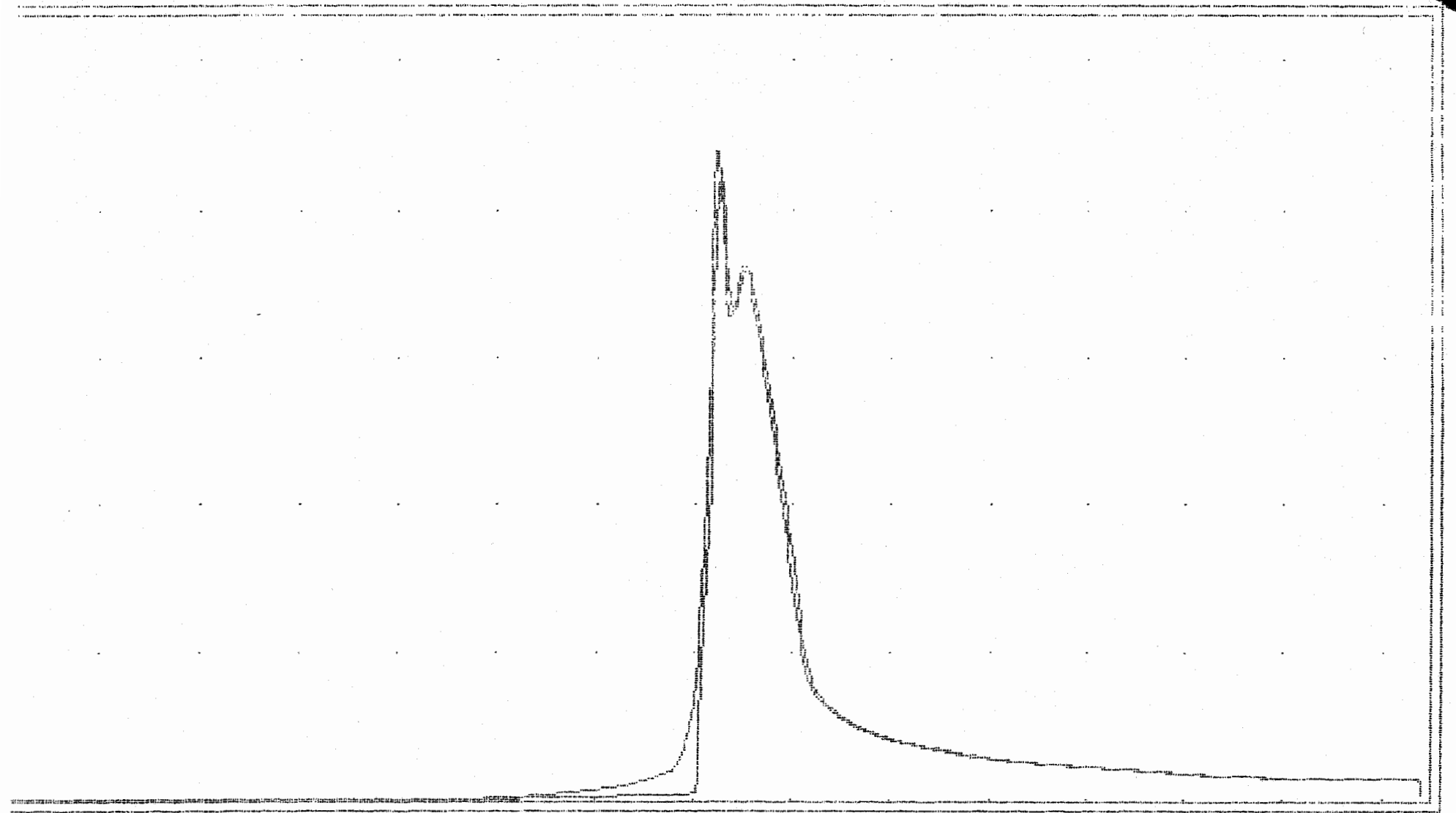
Hydrograph type = RESERVOIR ROUTE
Storm frequency = 100 yr
Inflow hyd. no. = 13

Peak discharge = 84.20 cfs
Time interval = 2 min
Reservoir no. = 1

HYDROGRAPH DISCHARGE TABLE

TIME hrs	INFLOW (i) cfs	INFLOW (j) cfs	2S/dt-O (i) cfs	2S/dt+O (j) cfs	OUTFLOW cfs
9.63	1.01	1.04	32.75	33.38	0.32
9.67	1.04	1.06	34.14	34.79	0.33
9.70	1.06	1.09	35.58	36.24	0.33
9.73	1.09	1.11	37.05	37.72	0.34
9.77	1.11	1.14	38.55	39.25	0.35
9.80	1.14	1.17	40.10	40.81	0.35
9.83	1.17	1.19	41.68	42.41	0.36
9.87	1.19	1.22	43.31	44.05	0.37
9.90	1.22	1.25	44.97	45.73	0.38
9.93	1.25	1.28	46.68	47.45	0.38
9.97	1.28	1.31	48.43	49.21	0.39
10.00	1.31	1.34	50.22	51.02	0.40
10.03	1.34	1.37	52.05	52.87	0.41
10.07	1.37	1.40	53.94	54.77	0.41
10.10	1.40	1.44	55.87	56.71	0.42
10.13	1.44	1.47	57.86	58.71	0.43
10.17	1.47	1.51	59.90	60.77	0.43
10.20	1.51	1.55	62.01	62.88	0.44
10.23	1.55	1.59	64.17	65.06	0.44
10.27	1.59	1.63	66.40	67.30	0.45
10.30	1.63	1.67	68.70	69.61	0.46
10.33	1.67	1.71	71.07	71.99	0.46
10.37	1.71	1.76	73.51	74.45	0.47
10.40	1.76	1.80	76.03	76.98	0.47
10.43	1.80	1.85	78.62	79.59	0.48

p = 84.2 RESERVOIR ROUTE 100



ICU = 100 min 14 VGU = 20.0 cfs

IAX STORAGE = 39375

IAX ELEVATION = 88.06

BMP CALCULATIONS

→ TOTAL DA TO BMP = 24.7 AC

→ PROJECT AREA = 4.9 AC. (INCLUDES FUTURE DEV.)

→ OFFSITE DA = 15.1 AC (11.9 AC DEVELOPED)

→ ON-SITE AREA (PRE-CHES. BAY ACT) = 4.7 AC

* BMP DESIGN TYPE #2 — 4 POINTS

$\frac{16.6}{4.9} = 3.4\ (4) =$ **13.6 POINTS** ✓ > 10 PTS

OFFSITE: 15.1 acres
11.9 acres - developed
3.2 acres - undev.

BMP Pts	Onsite -	$4 \times \frac{4.9}{4.9} =$	4	
	onsite - pre Ches.	$4 \times \frac{4.7}{4.9} =$	3.8	7.8
	offsite - undev	$4 \times \frac{3.2}{4.9} =$	2.6	10.4
	offsite dev'd	$4 \times \frac{11.9}{4.9} =$	9.7	

POPLAR CREEK #6883-3 12/17/96

TABLE 3

WORKSHEET FOR BMP POINT SYSTEM

A. STRUCTURAL BMP POINT ALLOCATION

BMP	BMP Points		Fraction of Site Served by BMP		Weighted BMP Points
DESIGN #2	4	x	16.6/4.9	=	13.6
		x		=	
		x		=	
		x		=	

TOTAL WEIGHTED STRUCTURAL BMP POINTS: _____

B. NATURAL OPEN SPACE CREDIT

Fraction of Site		Natural Open Space Credit (0.1 per 1%)		Points for Natural Open Space
—	x	—	=	0

C. TOTAL WEIGHTED POINTS

13.6	+	0	=	13.6 > 10 ✓
Structural BMP Points		Natural Open Space Points		TOTAL

Date Record Created:

Created By:

WS_BMPNO: YC003

Print Form

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Saturday, March 13, 2010
3:17:06 PM

WATERSHED	YC
BMP ID NO	003
PLAN NO	
TAX PARCEL	
PIN NO	2320100067
CONSTRUCTION DATE	
PROJECT NAME	Poplar Creek Business Center
FACILITY LOCATION	7521 Richmond Road
CITY-STATE	Williamsburg, VA
CURRENT OWNER	Barnett Development Company
OWNER ADDRESS	7521 Richmond Road
OWNER ADDRESS 2	
CITY-STATE-ZIP CODE	Williamsburg, VA 23188
OWNER PHONE	
MAINT AGREEMENT	No
EMERG ACTION PLAN	No

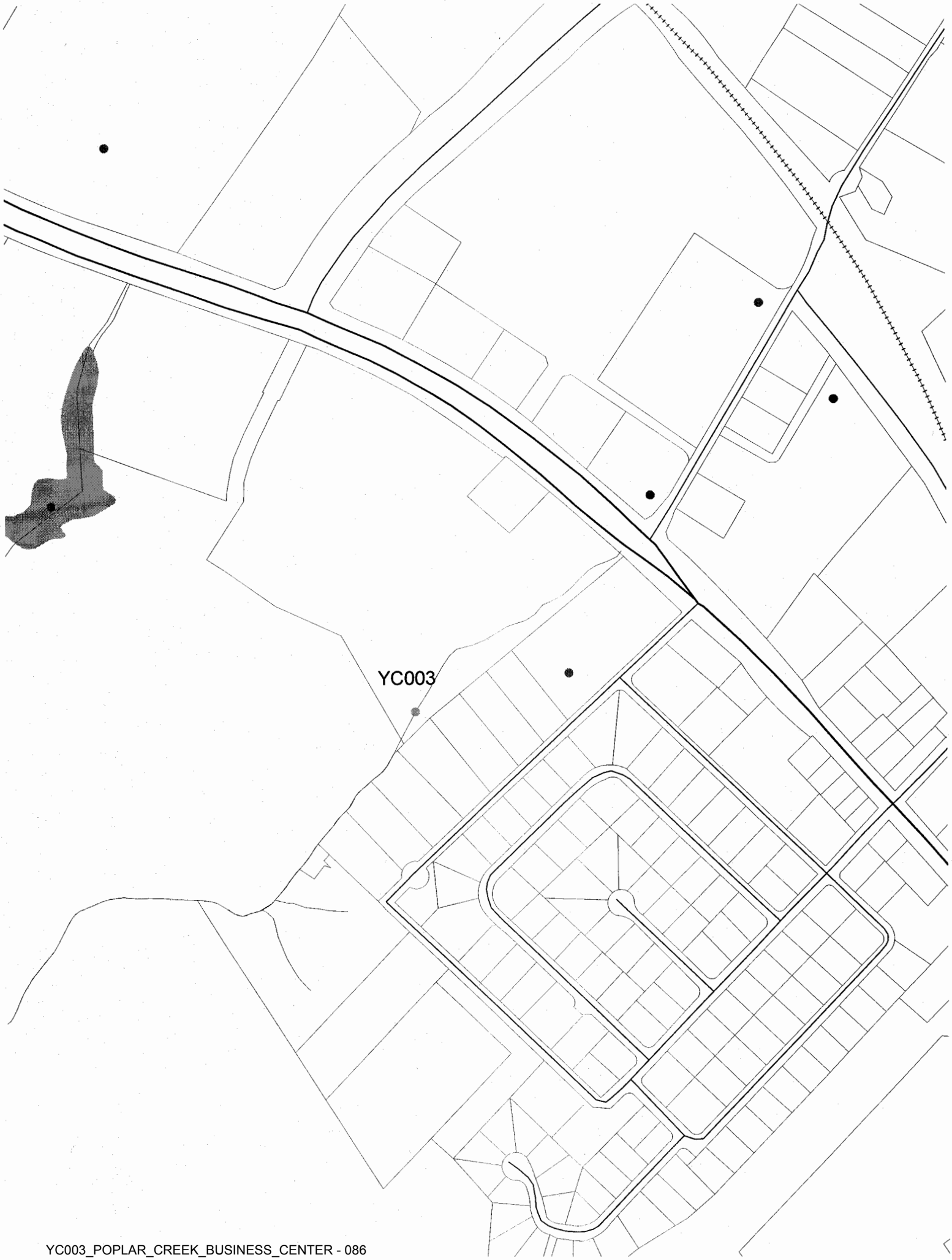
Get Last BMP No

Return to Menu

MAINTENANCE PLAN	No	CTRL STRUC DESC	CMP Riser
SITE AREA acre		CTRL STRUC SIZE inches	48
LAND USE		OTLT BARRL DESC	RCP
old BMP TYP	Dry Pond	OTLT BARRL SIZE inch	24
JCC BMP CODE	F2 Dry ED with forebay		
POINT VALUE	4	EMERG SPILLWAY	Yes
		DESIGN HW ELEV	79.5
		PERM POOL ELEV	
SVC DRAIN AREA acres	24.7	2-YR OUTFLOW cfs	19.41
		10-YR OUTFLOW cfs	45.31
		REC DRAWING	No
SERVICE AREA DESCRI	Residential, Commercial, and Wooded		
IMPERV AREA acres	11.90	CONSTR CERTIF	No
RECV STREAM	UT Yarmouth Creek		
EXT DET-WQ-CTRL	No	LAST INSP DATE	3/26/2002
WTR QUAL VOL acre-ft	0	INTERNAL RATING	3
CHAN PROT CTRL	No	MISC/COMMENTS	
CHAN PROT VOL acre-ft	0		
SW/FLOOD CONTROL	No		
GEOTECH REPORT	No		

Inspected by:

Additional Comments:



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