

Preliminary DRAINAGE STUDY

For

***Mapes Road Marijuana Processing &
Manufacturing Facilities***

Mapes Road, Perris, CA 92570

City of Perris
DPR 18-00010

Applicant/Developer:

Mr. Kameron Abraham
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San Diego, CA 92120
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Kameroni4@yahoo.com

Snipes-Dye Associates
civil engineers and land surveyors

8348 Center Drive, Suite G
La Mesa, CA 91942-2910
(619) 697-9234, Fax (619) 460-2033
PR0021

Dated: December 7, 2018

DECLARATION OF RESPONSIBLE CHARGE

I, HEREBY DECLARE THAT I AM THE CIVIL ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF PERRIS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITY FOR PROJECT DESIGN.



SON P. NGUYEN
R.C.E. 86249
EXP. 03-31-19

12-7-18
DATE



PRELIMINARY HYDROLOGY/DRAINAGE STUDY
FOR
MAPES ROAD MARIJUANA PROCESSING & MANUFACTURING FACILITIES
DPR # 18-00010

INTRODUCTION: The project is located the north side of Mapes Road between A Street and Goetz Road, in the City of Perris. See attached Vicinity Map. The project proposes to construct an approximately 9,900 square-footage marijuana processing & manufacturing, office building and four 18,720-sf greenhouse buildings, including the asphalt paved drive and parking lot on approximately 5.94-acre site. The site is located within the Hydrologic Soil Group B. Large portion of the site is located within the 100-year floodplain as shown on the FEMA's FIRM Panel Map No. 06065C1440H with the base flood elevation of 1420. The methodology utilized in determining the 100-year peak discharge is the Riverside County's Rational Method. The hydrograph and detention basin routing calculations were performed using the Hydraflow Hydrographs IntelliSolve Program.

PRE-DEVELOPMENT CONDITIONS: The site topography consists generally flat land with gentle sloping southeasterly from an elevation of approximately 1419.0 at the northwest corner of the site to an elevation of approximately 1415.0 at a low point near the southeast corner of the site. The site currently consists of an undeveloped land with no vegetation. The runoff from an approximately 5.68-acre area is surface flowing and discharging off-site near the southeasterly corner of the site and easterly to Goetz Road and eventually entering the Perris Valley Channel. The calculated peak discharge in the 100-year storm for the pre-development site is 6.60 cfs. See Table 1 for a summary of pre-construction flows.

POST-DEVELOPMENT CONDITIONS: The proposed development consists of the installation of one 9,900 square-footage office building and four 18,900 square-footage greenhouse buildings along with the required asphalt pavement drive and parking lot. The runoff from the proposed development will be collected in catch basins located along the side of the fire lane and routed to the biotreatment basin (Retention basin) located by the northeast corner of the office building. The Runoff from the retention basin shall be metered and discharged downstream at the same location and manners as the pre-development conditions. The calculated peak discharges in the 100-year storm before mitigated and after mitigated for the post-development site are 9.50 cfs and 6.50 cfs, respectively. See attached calculations.

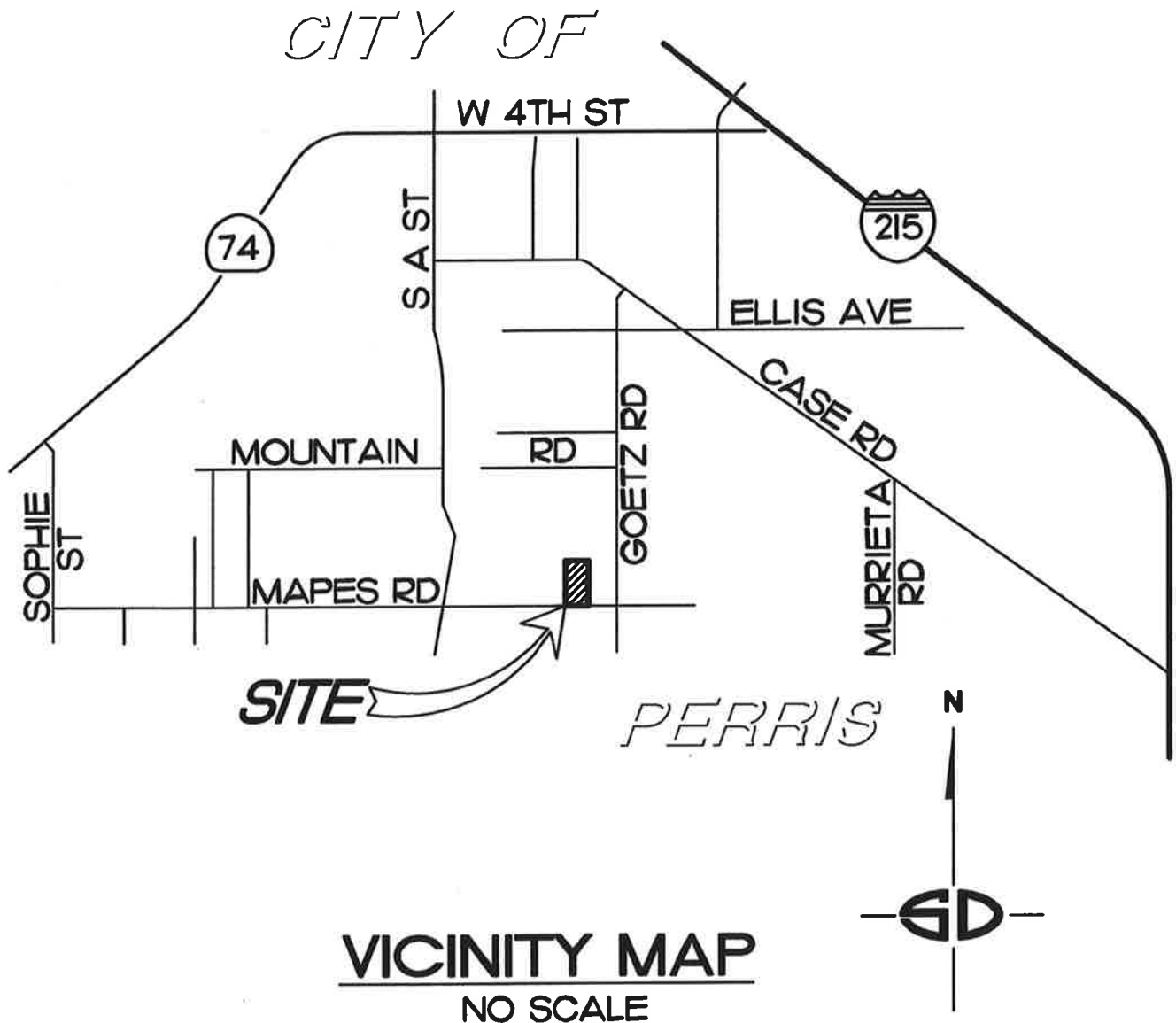
CONCLUSION:

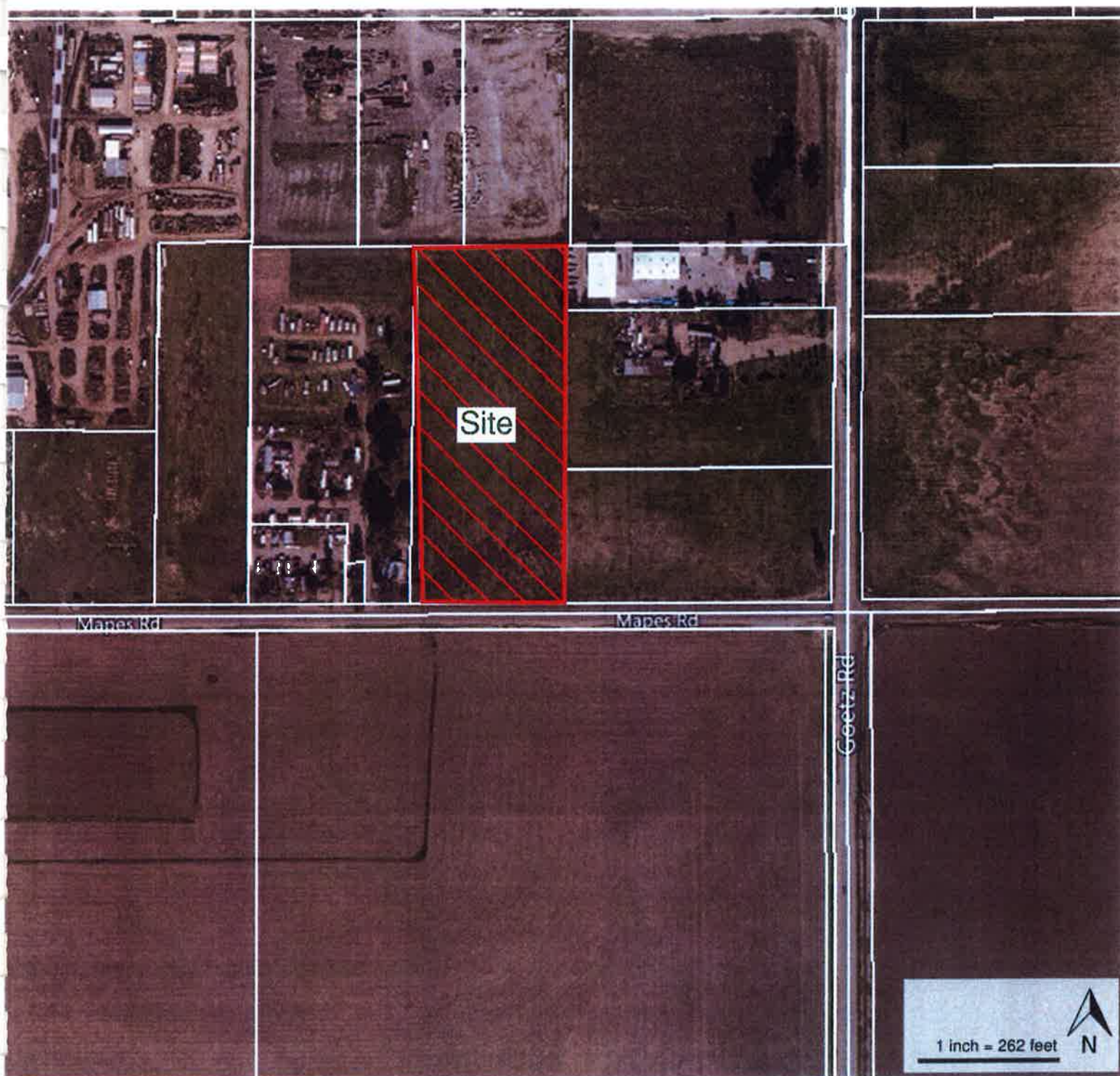
The proposed development of the marijuana processing, manufacturing facilities over an undeveloped parcel of land creates the increase in impervious surface

area and will result in the increase of runoff as shown in the calculations. The proposed (40 ft wide by 125 ft long) biotreatment basin has the retained capacity to mitigate the increase discharge to the pre-development conditions. Therefore, the project will not impact the neighboring properties or public facilities in the downstream area as a result of the construction of this project. See Table 1 below for comparing the discharges of the pre- and post-development conditions.

Table 1: Runoff Discharge Summary

PEAK 100-YEAR DISCHARGE		
	Unmitigated Q ₁₀₀	Q ₁₀₀
Pre-development	---	6.57 cfs
Post-development	10.46 cfs	6.42 cfs





Location Map

SNIPES-DYE ASSOCIATES
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PRE-DEVELOPMENT PEAK 100-YEAR DISCHARGE

1. DRAINAGE AREA (A) = 5.68 ACRES

2. TIME OF CONCENTRATION (T_c):

FLOW LENGTH (L) = 600'

CHANGE IN ELEVATION (H) = 4'

DEVELOPMENT $\Rightarrow$ "UNDEVELOPED - POOR COVER"

$T_c = 19.0$ MINUTES

READ FROM PLATE D-3

3. INTENSITY OF RAINFALL (I):

SLOPE OF INTENSITY DURATION CURVE
FOR PERRIS VALLEY (S) = 0.49

PLATE D-4.1 (A OF 6)

$I_{100-YR} = 1.97$ INCH/HOUR

FOR $T_c = 19$ MIN.

4. COEFFICIENT OF RUNOFF (C):

HYDROLOGIC SOIL GROUP B

PLATE C-130

0% OF IMPERVIOUS COVER

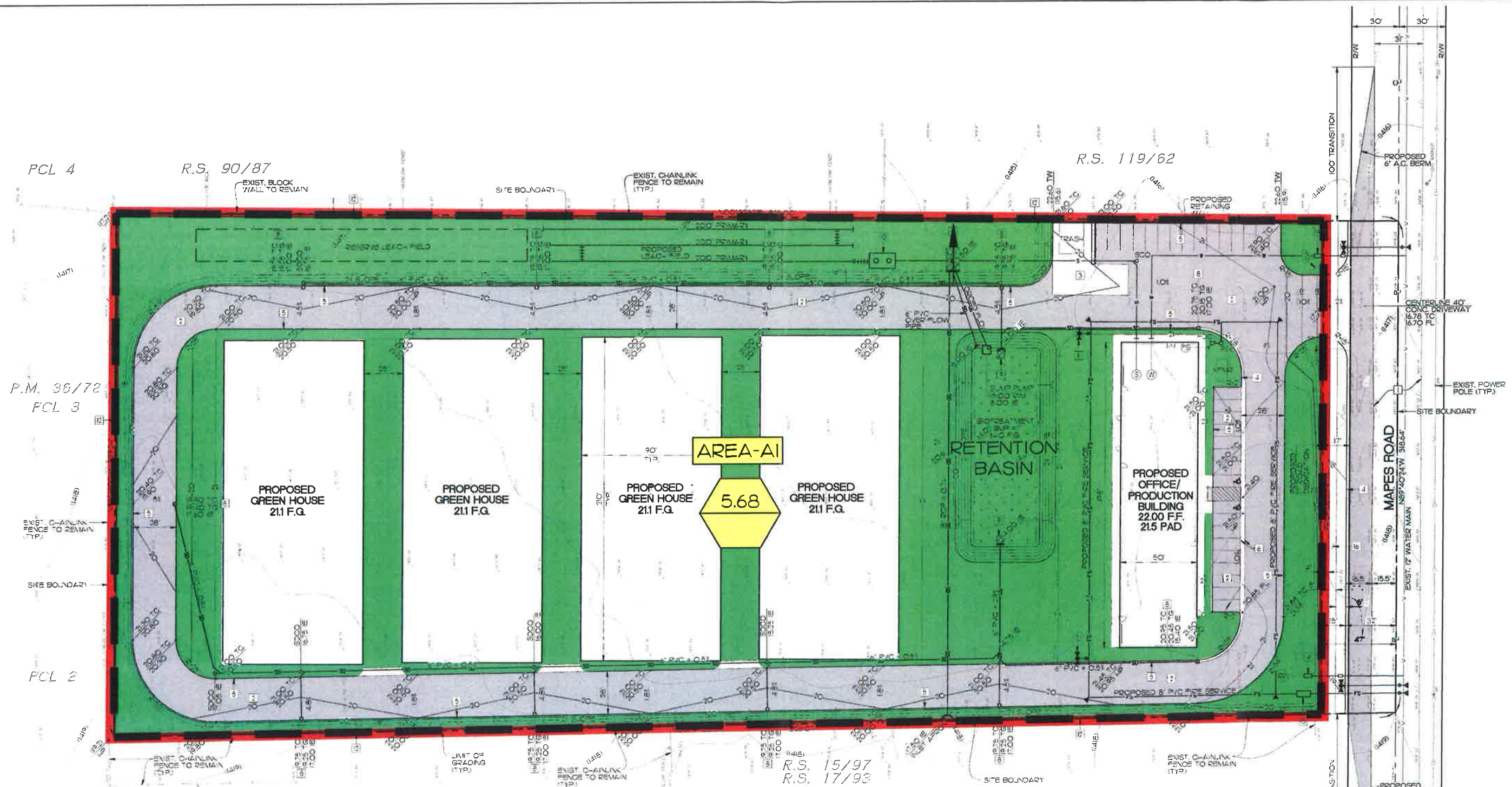
$C = 0.59$ FOR $I = 1.97$ INCH/HOUR

PLATE D-5.2

5. PEAK DISCHARGE (Q):

$Q = C I A = 0.59 (1.97) 5.68 = \underline{6.60 \text{ CFS}}$
_{100YR}

3. UNITS/INCHES, BASED ON 2"=100' (Horizontal) AND 1"=20' (Vertical). SEE NOTE 10 FOR MORE INFORMATION.



LEGEND



STUDY AREA BOUNDARY



WATERSHED AREA (ACRES)



LANDSCAPING



CONCENTRATION POINT



RATIONAL METHOD HYDROLOGY MAP
MAPES ROAD CANNABIS
PRODUCTION FACILITY
MAPES ROAD, CITY OF PERRIS
RIVERSIDE COUNTY, CA 92570

SPN
JGF
12-05-18

BY
DATE

BY
DATE

BY
DATE

OF 1 SHEETS

1

PROOX

SNIPES-DYE ASSOCIATES

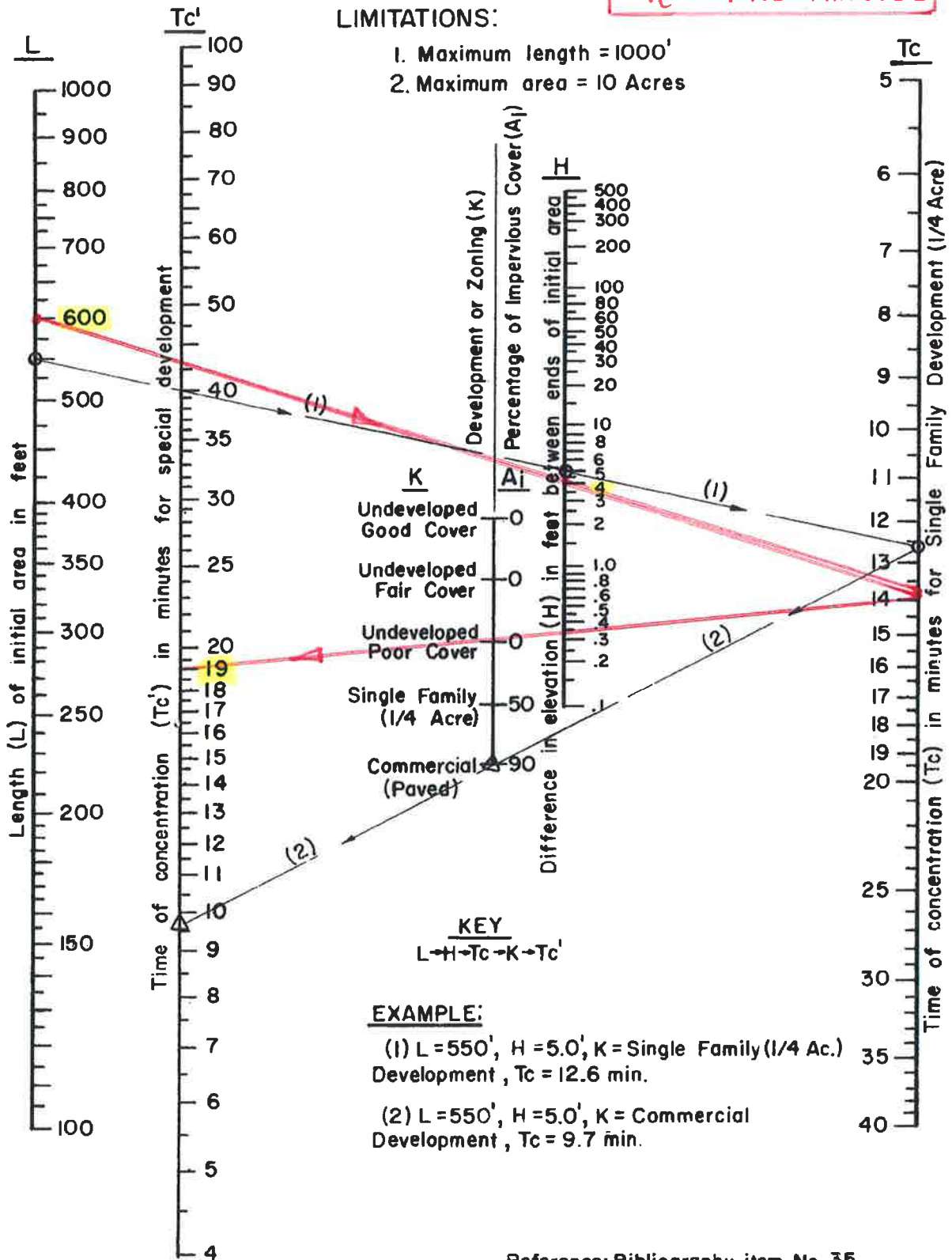
8348 CENTER DRIVE, SUITE 6, LA MESA, CA 91942-2910 (619) 697-9234, FAX (619) 460-2033

PRE-DEVELOPMENT

$T_c = 19.0$ MINUTES

LIMITATIONS:

1. Maximum length = 1000'
2. Maximum area = 10 Acres



EXAMPLE:

(1) $L = 550'$, $H = 5.0'$, $K =$ Single Family (1/4 Ac.) Development, $T_c = 12.6$ min.

(2) $L = 550'$, $H = 5.0'$, $K =$ Commercial Development, $T_c = 9.7$ min.

Reference: Bibliography item No. 35.

RCFC & WCD
 HYDROLOGY MANUAL

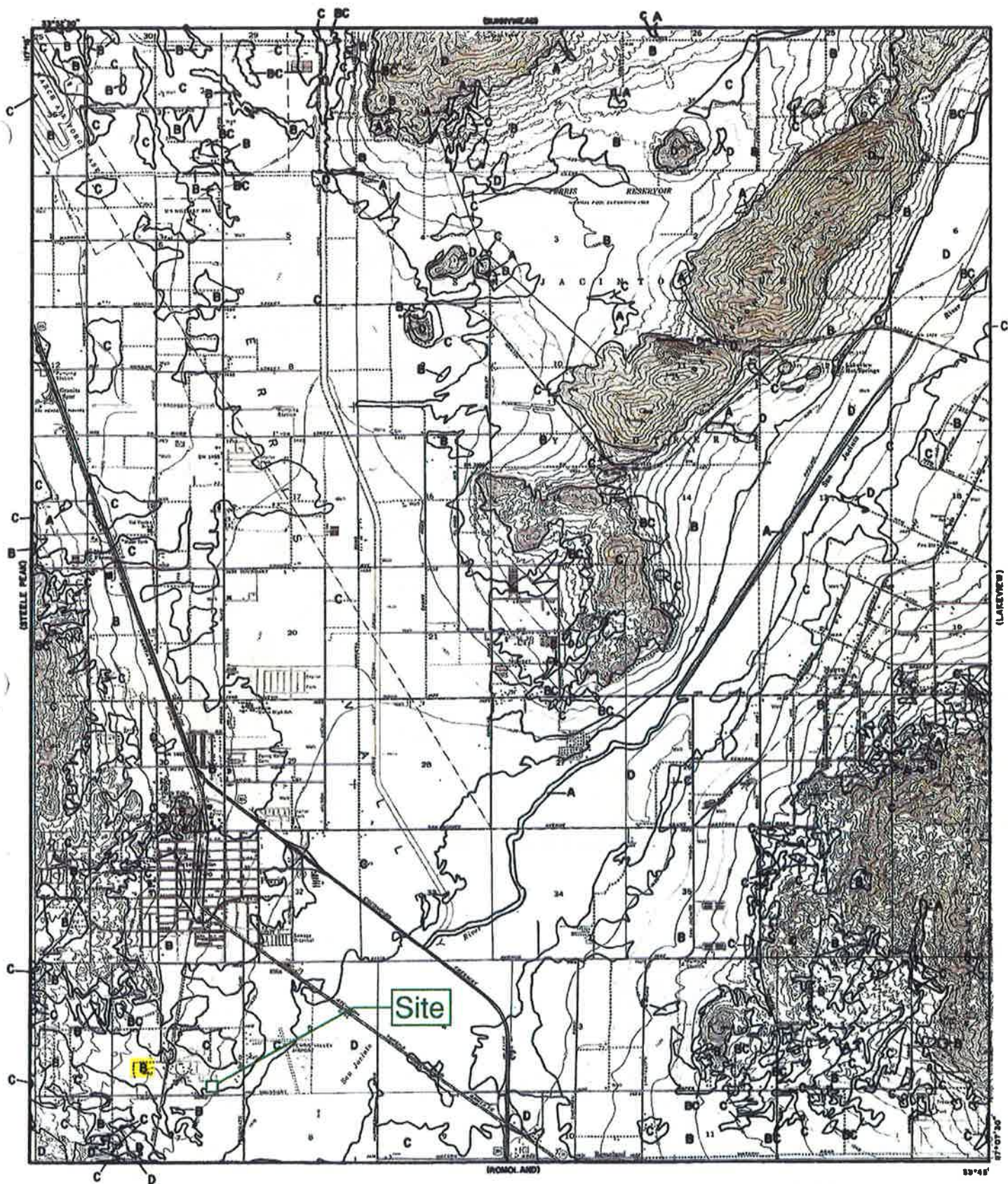
**TIME OF CONCENTRATION
 FOR INITIAL SUBAREA**

RAINFALL INTENSITY - INCHES PER HOUR

MIRA LOMA				MURRIETA - TEMECULA & RANCHO CALIFORNIA				NORCO				PALM SPRINGS				PERRIS VALLEY			
DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR		DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR		DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR		DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR		DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR	
5	2.84	4.48		5	3.45	5.10		5	2.77	4.16		5	4.23	6.76		5	2.64	3.78	
6	2.58	4.07		6	3.12	4.61		6	2.53	3.79		6	3.80	6.08		6	2.41	3.46	
7	2.37	3.75		7	2.87	4.24		7	2.34	3.51		7	3.48	5.56		7	2.24	3.21	
8	2.21	3.49		8	2.67	3.94		8	2.19	3.29		8	3.22	5.15		8	2.09	3.01	
9	2.08	3.28		9	2.50	3.69		9	2.07	3.10		9	3.01	4.81		9	1.98	2.84	
10	1.96	3.10		10	2.36	3.48		10	1.96	2.94		10	2.83	4.52		10	1.88	2.69	
11	1.87	2.95		11	2.24	3.30		11	1.87	2.80		11	2.67	4.28		11	1.79	2.57	
12	1.78	2.82		12	2.13	3.15		12	1.79	2.68		12	2.54	4.07		12	1.72	2.46	
13	1.71	2.70		13	2.04	3.01		13	1.72	2.58		13	2.43	3.88		13	1.65	2.37	
14	1.64	2.60		14	1.96	2.89		14	1.66	2.48		14	2.33	3.72		14	1.59	2.29	
15	1.58	2.50		15	1.89	2.79		15	1.60	2.40		15	2.23	3.58		15	1.54	2.21	
16	1.53	2.42		16	1.82	2.69		16	1.55	2.32		16	2.15	3.44		16	1.49	2.14	
17	1.48	2.34		17	1.76	2.60		17	1.50	2.25		17	2.08	3.32		17	1.45	2.08	
18	1.44	2.27		18	1.71	2.52		18	1.46	2.19		18	2.01	3.22		18	1.41	2.02	
19	1.40	2.21		19	1.66	2.45		19	1.42	2.13		19	1.95	3.12		19	1.37	1.97	
20	1.36	2.15		20	1.61	2.38		20	1.39	2.08		20	1.89	3.03		20	1.34	1.92	
22	1.29	2.04		22	1.53	2.26		22	1.32	1.98		22	1.79	2.86		22	1.28	1.83	
24	1.24	1.95		24	1.46	2.15		24	1.26	1.90		24	1.70	2.72		24	1.22	1.75	
26	1.18	1.87		26	1.39	2.06		26	1.22	1.82		26	1.62	2.60		26	1.18	1.69	
28	1.14	1.80		28	1.34	1.98		28	1.17	1.76		28	1.56	2.49		28	1.13	1.63	
30	1.10	1.73		30	1.29	1.90		30	1.13	1.70		30	1.49	2.39		30	1.10	1.57	
32	1.06	1.67		32	1.24	1.84		32	1.10	1.64		32	1.44	2.30		32	1.06	1.52	
34	1.03	1.62		34	1.20	1.78		34	1.06	1.59		34	1.39	2.22		34	1.03	1.48	
36	1.00	1.57		36	1.17	1.72		36	1.03	1.55		36	1.34	2.15		36	1.00	1.44	
38	.97	1.53		38	1.13	1.67		38	1.01	1.51		38	1.30	2.09		38	.98	1.40	
40	.94	1.49		40	1.10	1.62		40	.98	1.47		40	1.27	2.02		40	.95	1.37	
45	.89	1.40		45	1.03	1.52		45	.92	1.39		45	1.18	1.89		45	.90	1.29	
50	.84	1.32		50	.97	1.44		50	.88	1.31		50	1.11	1.78		50	.85	1.22	
55	.80	1.26		55	.92	1.36		55	.84	1.25		55	1.05	1.68		55	.81	1.17	
60	.76	1.20		60	.88	1.30		60	.80	1.20		60	1.00	1.60		60	.78	1.12	
65	.73	1.15		65	.84	1.24		65	.77	1.15		65	.95	1.53		65	.75	1.08	
70	.70	1.11		70	.81	1.19		70	.74	1.11		70	.91	1.46		70	.72	1.04	
75	.68	1.07		75	.78	1.15		75	.72	1.07		75	.88	1.41		75	.70	1.00	
80	.65	1.03		80	.75	1.11		80	.69	1.04		80	.85	1.35		80	.68	.97	
85	.63	1.00		85	.73	1.07		85	.67	1.01		85	.82	1.31		85	.65	.94	
SLOPE = .530				SLOPE = .550				SLOPE = .500				SLOPE = .580				SLOPE = .490			

RCFC & WCD
HYDROLOGY MANUAL

STANDARD
INTENSITY - DURATION
CURVES DATA

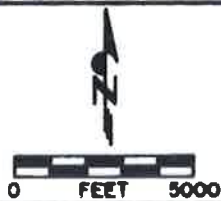


LEGEND

- SOILS GROUP BOUNDARY
- A SOILS GROUP DESIGNATION

RCFC&WCD

HYDROLOGY MANUAL



HYDROLOGIC SOILS GROUP MAP FOR PERRIS

PRE-DEVELOPMENT HYDROGRAPH

Hydrograph Plot

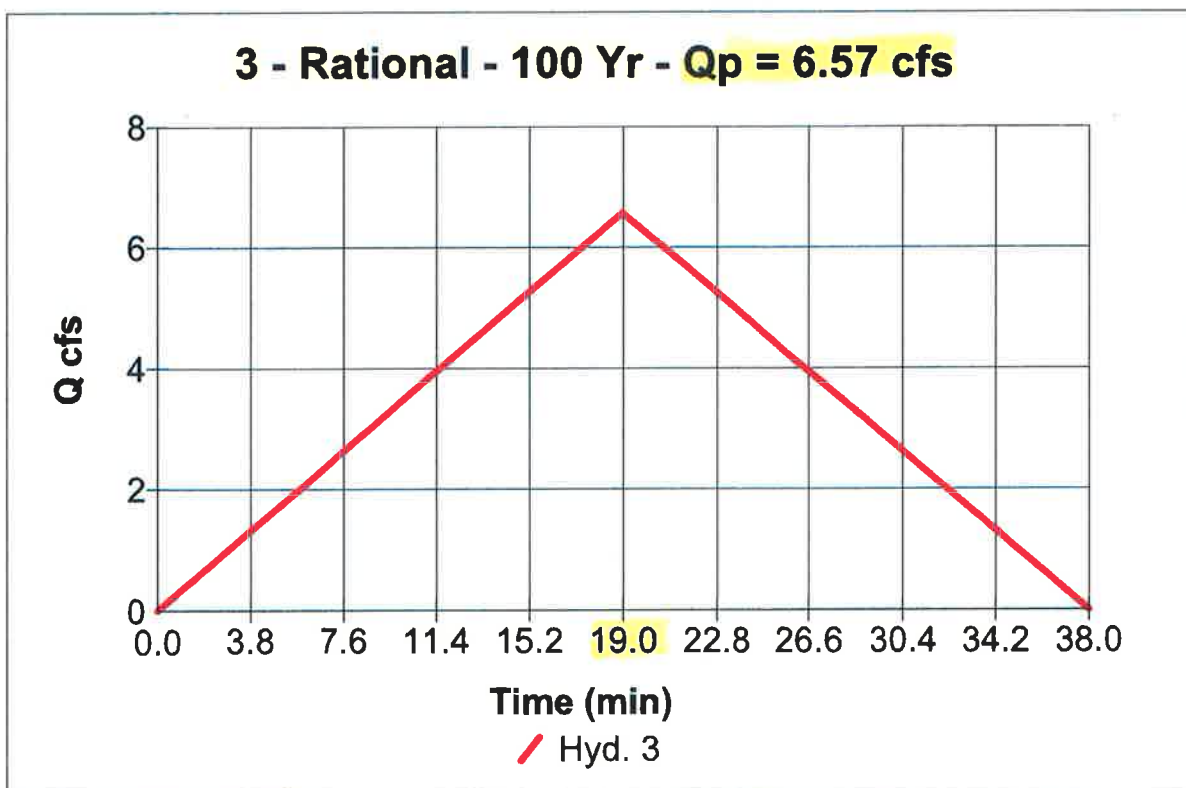
Hydraflow Hydrographs by Intelisolve

Hyd. No. 3

Pre-development

Hydrograph type	= Rational	Peak discharge	= 6.57 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Drainage area	= 5.7 ac	Runoff coeff.	= 0.59
Intensity	= 1.961 in/hr	Time of conc. (Tc)	= 19 min
IDF Curve	= Mapes Rd Intensity Duration Curve	Asc/Rec limb fact	= 1/1

Hydrograph Volume = 7,490 cuft



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CHECKED BY _____ DATE _____

SCALE _____

POST-DEVELOPMENT PEAK 100-YEAR DISCHARGE

1. DRAINAGE AREA (A) = 5.68 ACRES

2. TIME OF CONCENTRATION (T_c):

FLOW LENGTH (L) = 650'

CHANGE IN ELEVATION (H) = 3.5'

DEVELOPMENT $\Rightarrow$ "COMMERCIAL PAVED 65% IMP."

$T_c = 14.0$ MINUTES

READ FROM PLATE D-3

3. INTENSITY OF RAINFALL (I):

SLOPE OF INTENSITY DURATION CURVE
FOR PERRIS VALLEY (S) = 0.49

PLATE D-4.1 (A OF 6)

$I_{100-YR} = 2.29$ INCH/HOUR

FOR $T_c = 14$ MIN.

4. COEFFICIENT OF RUNOFF (C):

HYDROLOGIC SOIL GROUP B

PLATE C-130

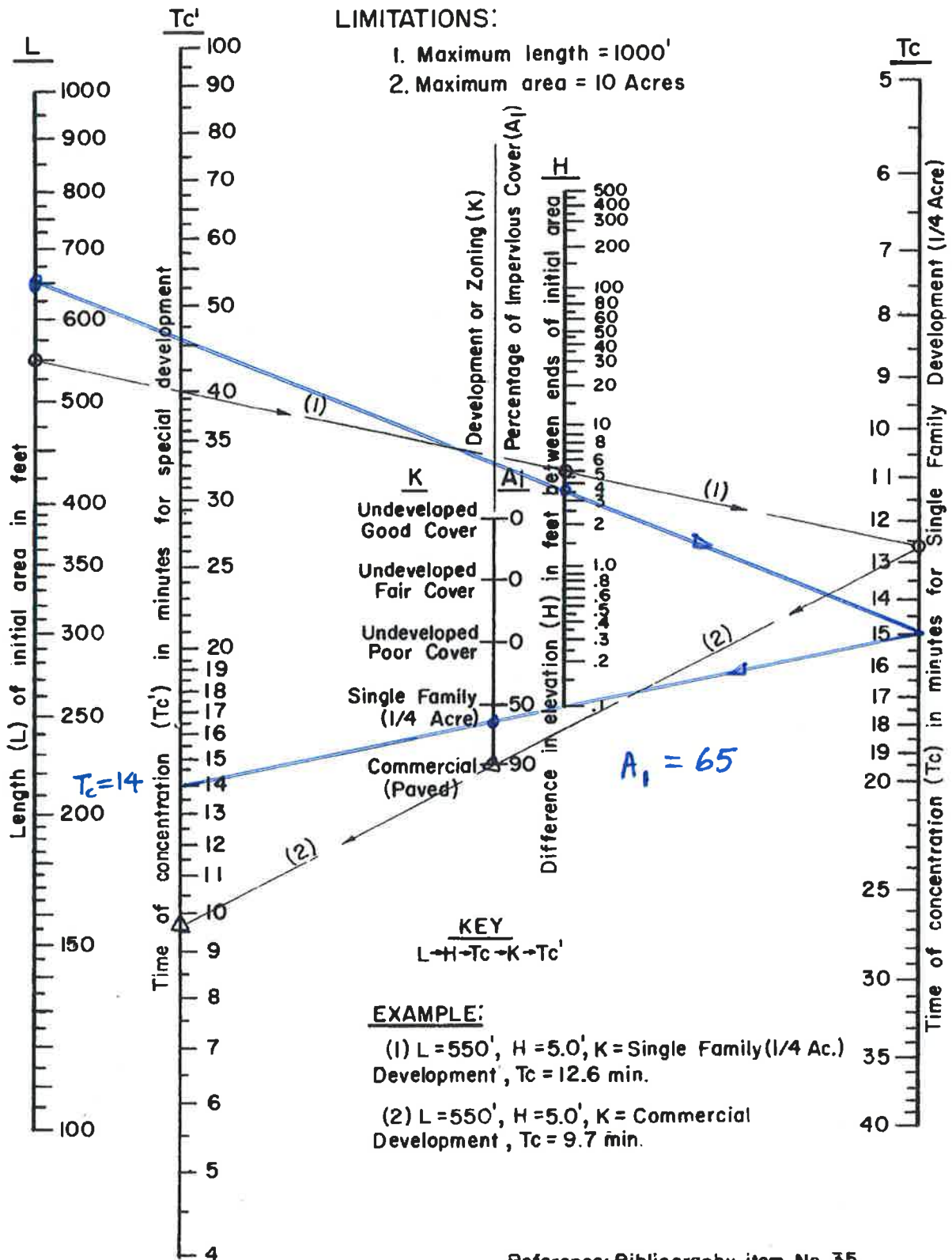
65% OF IMPERVIOUS COVER

$C = 0.81$ FOR $I = 2.29$ INCH/HOUR

PLATE D-5.2

5. PEAK DISCHARGE (Q):

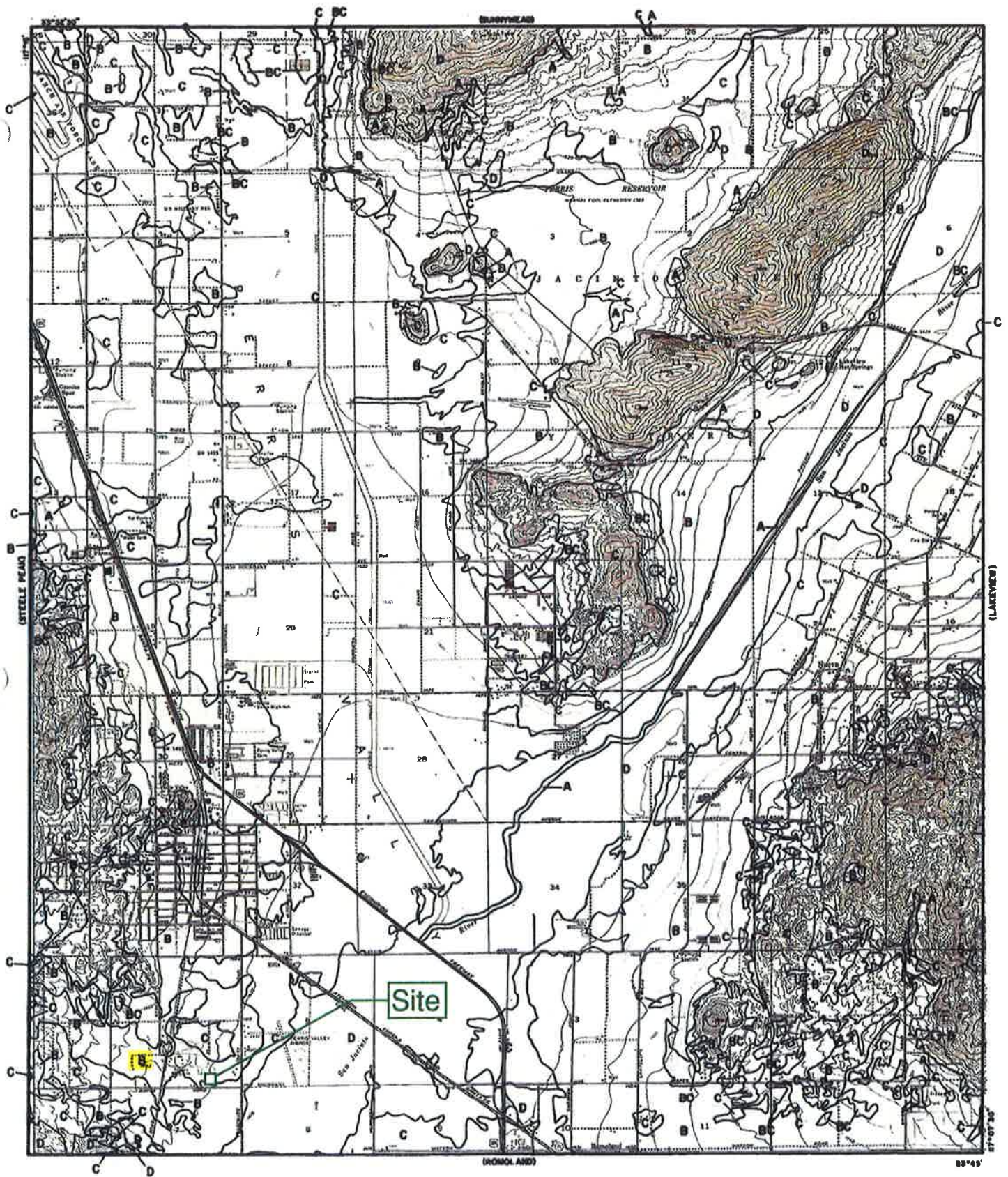
$Q = C I A = 0.81 (2.29) 5.68 = 10.54$ CFS



Reference: Bibliography item No. 35.

RCFC & WCD
 HYDROLOGY MANUAL

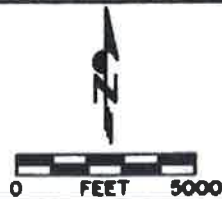
**TIME OF CONCENTRATION
 FOR INITIAL SUBAREA**



LEGEND

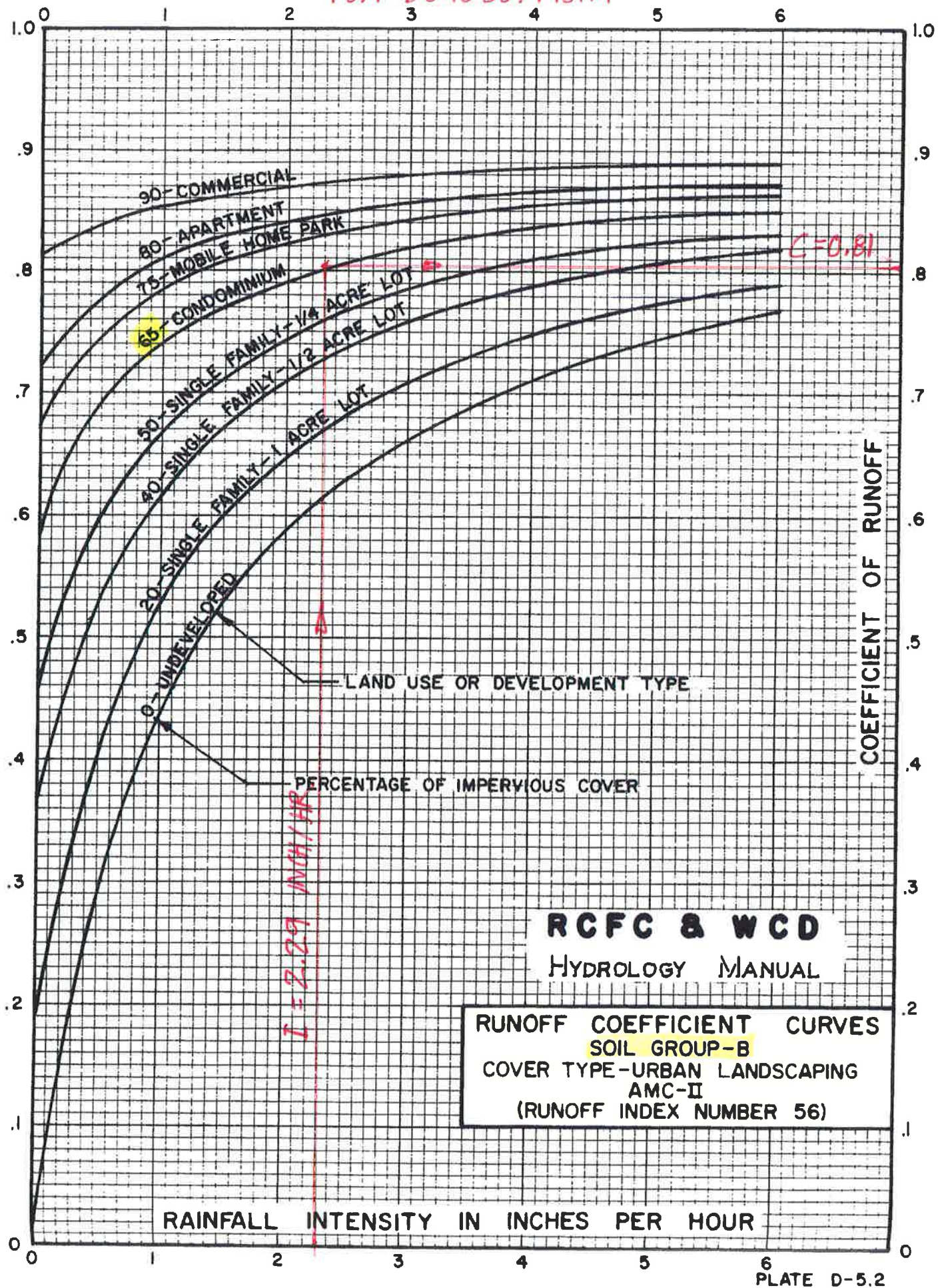
- SOILS GROUP BOUNDARY
- A SOILS GROUP DESIGNATION

RCFC&WCD
HYDROLOGY MANUAL



**HYDROLOGIC SOILS GROUP MAP
FOR
PERRIS**

POST-DEVELOPMENT



Hydrograph Plot

Hydraflow Hydrographs by Intellisolve

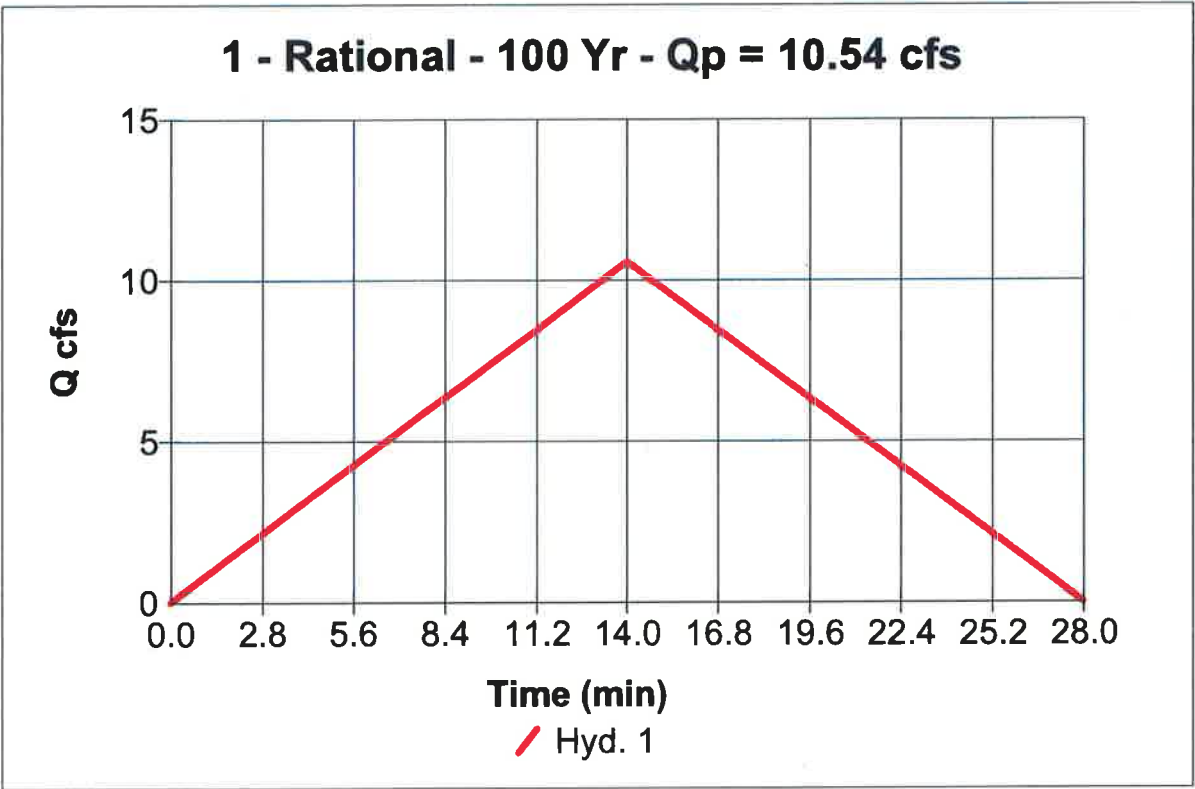
Hyd. No. 1

basin 1

Hydrograph type	= Rational	Peak discharge	= 10.54 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Drainage area	= 5.7 ac	Runoff coeff.	= 0.81
Intensity	= 2.290 in/hr	Time of conc. (Tc)	= 14 min
IDF Curve	= Mapes Rd Intensity Duration Curve	Asc/Rec limb fact	= 1/1

Hydrograph Volume = 8,851 cuft

Q INFLOW Hydrograph



Hydrograph Report

Page 1

Hydraflow Hydrographs by Intelisolve

Hyd. No. 1

basin 1

Hydrograph type	= Rational	Peak discharge	= 10.54 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Drainage area	= 5.7 ac	Runoff coeff.	= 0.81
Intensity	= 2.290 in/hr	Time of conc. (Tc)	= 14 min
IDF Curve	= Mapes Rd Intensity Duration Curve	Asc/Rec limb fact	= 1/1

Hydrograph Volume = 8,851 cuft

Hydrograph Discharge Table

Time -- Outflow
(min) cfs)

1	0.75
2	1.51
3	2.26
4	3.01
5	3.76
6	4.52
7	5.27
8	6.02
9	6.77
10	7.53
11	8.28
12	9.03
13	9.78
14	10.54 << ← Q _{inflow}
15	9.78
16	9.03
17	8.28
18	7.53
19	6.77
20	6.02
21	5.27
22	4.52
23	3.76
24	3.01
25	2.26
26	1.51
27	0.75

...End

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DETENTION BASIN ROUTING

$$Q_{\text{INFLOW}} = 10.54 \text{ CFS} \Rightarrow T_c = 14.0 \text{ MINUTES}$$

DETENTION BASIN = 115 FT BY 40 FT PONDING DEPTH = 1.0'

$$Q_{\text{OUTFLOW}} = 6.46 \text{ CFS} \Rightarrow \text{TOTAL } T_c = 19.0 \text{ MINUTES}$$

$$Q_{\text{PRE-DEVELOPMENT}} = 6.60 \text{ CFS} \Rightarrow T_c = 19.0 \text{ MINUTES}$$

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

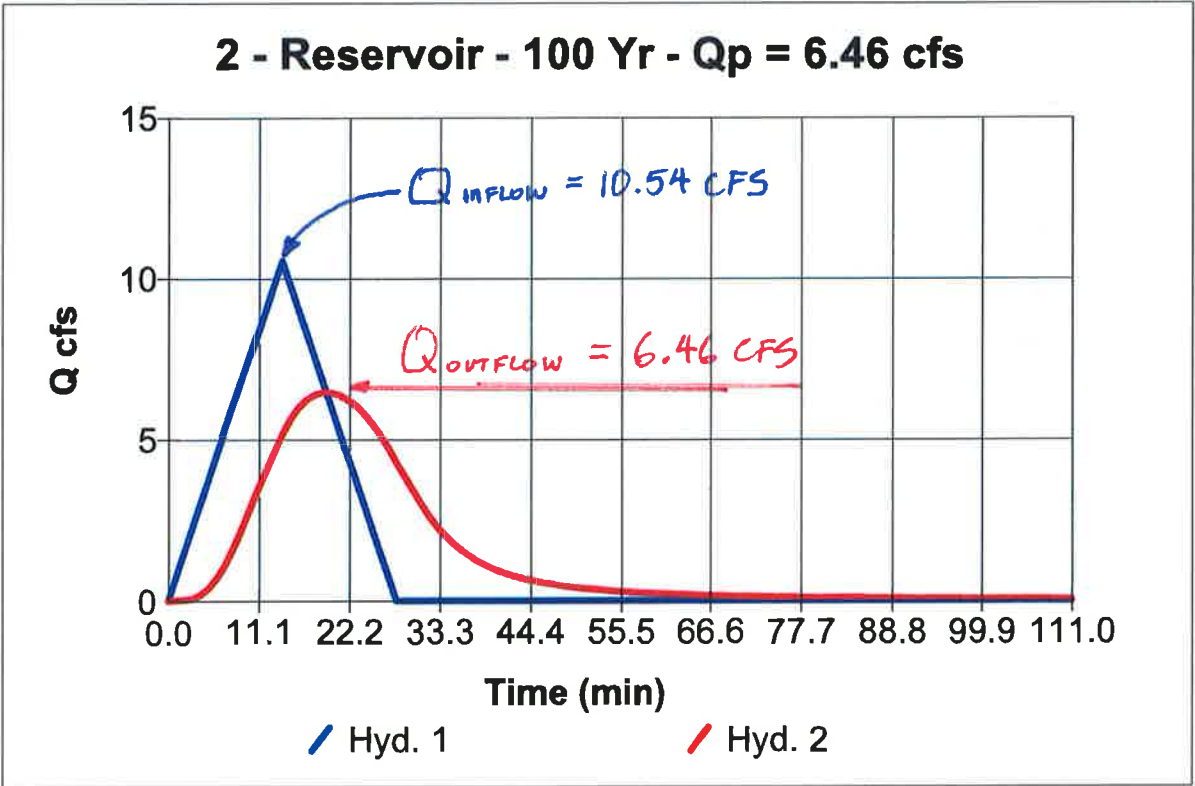
Hyd. No. 2

biotreatment basin 1

Hydrograph type	= Reservoir	Peak discharge	= 6.46 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Inflow hyd. No.	= 1	Reservoir name	= Biotreatment BM
Max. Elevation	= 14.78 ft	Max. Storage	= 3,803 cuft

Storage Indication method used.

Hydrograph Volume = 8,837 cuft



Hydrograph Report

Page 1

Hydraflow Hydrographs by Intelisolve

Hyd. No. 2

biotreatment basin 1

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 1
Max. Elevation = 14.78 ft

Peak discharge = 6.46 cfs
Time interval = 1 min
Reservoir name = Biotreatment BMP
Max. Storage = 3,803 cuft

Storage Indication method used.

Outflow hydrograph volume = 8,837 cuft

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
3	2.26	14.04	0.04	----	----	----	0.03	----	----	----	----	0.07
4	3.01	14.08	0.11	----	----	----	0.07	----	----	----	----	0.18
5	3.76	14.12	0.24	----	----	----	0.13	----	----	----	----	0.37
6	4.52	14.16	0.46	----	----	----	0.22	----	----	----	----	0.67
7	5.27	14.21	0.75	----	----	----	0.33	----	----	----	----	1.08
8	6.02	14.27	1.13	----	----	----	0.46	----	----	----	----	1.59
9	6.77	14.32	1.57	----	----	----	0.61	----	----	----	----	2.18
10	7.53	14.38	2.03	----	----	----	0.79	----	----	----	----	2.82
11	8.28	14.44	2.49	----	----	----	0.97	----	----	----	----	3.46
12	9.03	14.50	2.84	----	----	----	1.18	----	----	----	----	4.02
13	9.78	14.56	3.17	----	----	----	1.41	----	----	----	----	4.58
14	10.54 <<	14.63	3.48	----	----	----	1.65	----	----	----	----	5.14
15	9.78	14.68	3.74	----	----	----	1.89	----	----	----	----	5.62
16	9.03	14.73	3.92	----	----	----	2.06	----	----	----	----	5.98
17	8.28	14.76	4.04	----	----	----	2.19	----	----	----	----	6.23
18	7.53	14.78	4.11	----	----	----	2.28	----	----	----	----	6.39
19	6.77 <<	14.78 <<	4.15	----	----	----	2.31	----	----	----	----	6.46 <<
20	6.02	14.78	4.14	----	----	----	2.31	----	----	----	----	6.46
21	5.27	14.77	4.11	----	----	----	2.27	----	----	----	----	6.38
22	4.52	14.76	4.04	----	----	----	2.20	----	----	----	----	6.24
23	3.76	14.73	3.95	----	----	----	2.10	----	----	----	----	6.04
24	3.01	14.70	3.82	----	----	----	1.97	----	----	----	----	5.79
25	2.26	14.67	3.67	----	----	----	1.82	----	----	----	----	5.49
26	1.51	14.63	3.48	----	----	----	1.65	----	----	----	----	5.14
27	0.75	14.58	3.27	----	----	----	1.48	----	----	----	----	4.74
28	0.00	14.53	3.01	----	----	----	1.29	----	----	----	----	4.30
29	0.00	14.48	2.75	----	----	----	1.11	----	----	----	----	3.86
30	0.00	14.44	2.46	----	----	----	0.96	----	----	----	----	3.42
31	0.00	14.40	2.15	----	----	----	0.83	----	----	----	----	2.99
32	0.00	14.36	1.88	----	----	----	0.73	----	----	----	----	2.60
33	0.00	14.33	1.63	----	----	----	0.64	----	----	----	----	2.27
34	0.00	14.31	1.42	----	----	----	0.56	----	----	----	----	1.98
35	0.00	14.28	1.24	----	----	----	0.50	----	----	----	----	1.74
36	0.00	14.26	1.09	----	----	----	0.45	----	----	----	----	1.53
37	0.00	14.24	0.96	----	----	----	0.40	----	----	----	----	1.36
38	0.00	14.23	0.85	----	----	----	0.36	----	----	----	----	1.21
39	0.00	14.21	0.75	----	----	----	0.33	----	----	----	----	1.08
40	0.00	14.20	0.67	----	----	----	0.30	----	----	----	----	0.97

Continues on next page...

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
41	0.00	14.19	0.60	----	----	----	0.27	----	----	----	----	0.87
42	0.00	14.18	0.54	----	----	----	0.25	----	----	----	----	0.79
43	0.00	14.17	0.49	----	----	----	0.23	----	----	----	----	0.71
44	0.00	14.16	0.44	----	----	----	0.21	----	----	----	----	0.65
45	0.00	14.15	0.40	----	----	----	0.20	----	----	----	----	0.60
46	0.00	14.14	0.36	----	----	----	0.18	----	----	----	----	0.55
47	0.00	14.14	0.33	----	----	----	0.17	----	----	----	----	0.50
48	0.00	14.13	0.30	----	----	----	0.16	----	----	----	----	0.46
49	0.00	14.13	0.28	----	----	----	0.15	----	----	----	----	0.43
50	0.00	14.12	0.26	----	----	----	0.14	----	----	----	----	0.40
51	0.00	14.12	0.24	----	----	----	0.13	----	----	----	----	0.37
52	0.00	14.11	0.22	----	----	----	0.12	----	----	----	----	0.34
53	0.00	14.11	0.20	----	----	----	0.12	----	----	----	----	0.32
54	0.00	14.10	0.19	----	----	----	0.11	----	----	----	----	0.30
55	0.00	14.10	0.18	----	----	----	0.10	----	----	----	----	0.28
56	0.00	14.10	0.16	----	----	----	0.10	----	----	----	----	0.26
57	0.00	14.09	0.15	----	----	----	0.09	----	----	----	----	0.25
58	0.00	14.09	0.14	----	----	----	0.09	----	----	----	----	0.23
59	0.00	14.09	0.14	----	----	----	0.08	----	----	----	----	0.22
60	0.00	14.08	0.13	----	----	----	0.08	----	----	----	----	0.21
61	0.00	14.08	0.12	----	----	----	0.08	----	----	----	----	0.20
62	0.00	14.08	0.11	----	----	----	0.07	----	----	----	----	0.18
63	0.00	14.08	0.11	----	----	----	0.07	----	----	----	----	0.18
64	0.00	14.07	0.10	----	----	----	0.07	----	----	----	----	0.17
65	0.00	14.07	0.09	----	----	----	0.06	----	----	----	----	0.16
66	0.00	14.07	0.09	----	----	----	0.06	----	----	----	----	0.15
67	0.00	14.07	0.08	----	----	----	0.06	----	----	----	----	0.14
68	0.00	14.07	0.08	----	----	----	0.06	----	----	----	----	0.14
69	0.00	14.06	0.08	----	----	----	0.05	----	----	----	----	0.13
70	0.00	14.06	0.07	----	----	----	0.05	----	----	----	----	0.12
71	0.00	14.06	0.07	----	----	----	0.05	----	----	----	----	0.12
72	0.00	14.06	0.07	----	----	----	0.05	----	----	----	----	0.11
73	0.00	14.06	0.06	----	----	----	0.05	----	----	----	----	0.11
74	0.00	14.06	0.06	----	----	----	0.04	----	----	----	----	0.10
75	0.00	14.06	0.06	----	----	----	0.04	----	----	----	----	0.10
76	0.00	14.05	0.05	----	----	----	0.04	----	----	----	----	0.10
77	0.00	14.05	0.05	----	----	----	0.04	----	----	----	----	0.09
78	0.00	14.05	0.05	----	----	----	0.04	----	----	----	----	0.09
79	0.00	14.05	0.05	----	----	----	0.04	----	----	----	----	0.09
80	0.00	14.05	0.05	----	----	----	0.04	----	----	----	----	0.08
81	0.00	14.05	0.04	----	----	----	0.04	----	----	----	----	0.08
82	0.00	14.05	0.04	----	----	----	0.03	----	----	----	----	0.08
83	0.00	14.05	0.04	----	----	----	0.03	----	----	----	----	0.07
84	0.00	14.05	0.04	----	----	----	0.03	----	----	----	----	0.07
85	0.00	14.04	0.04	----	----	----	0.03	----	----	----	----	0.07
86	0.00	14.04	0.04	----	----	----	0.03	----	----	----	----	0.07

...End

Reservoir Report

DETENTION BASIN

Page 1

Reservoir No. 1 - Biotreatment BMP 1

Hydraflow Hydrographs by Intelisolve

Pond Data

Bottom LxW = 115.0 x 40.0 ft Side slope = 2.0:1 Bottom elev. = 14.00 ft Depth = 1.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	14.00	4,600	0	0
0.05	14.05	4,631	231	231
0.10	14.10	4,662	232	463
0.15	14.15	4,693	234	697
0.20	14.20	4,725	235	932
0.25	14.25	4,756	237	1,169
0.30	14.30	4,787	239	1,408
0.35	14.35	4,819	240	1,648
0.40	14.40	4,851	242	1,890
0.45	14.45	4,882	243	2,133
0.50	14.50	4,914	245	2,378
0.55	14.55	4,946	246	2,625
0.60	14.60	4,978	248	2,873
0.65	14.65	5,010	250	3,122
0.70	14.70	5,042	251	3,374
0.75	14.75	5,074	253	3,627
0.80	14.80	5,106	255	3,881
0.85	14.85	5,139	256	4,137
0.90	14.90	5,171	258	4,395
0.95	14.95	5,203	259	4,654
1.00	15.00	5,236	261	4,915

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 6.0	12.0	0.0	0.0
Span in	= 6.0	12.0	0.0	0.0
No. Barrels	= 6	1	0	0
Invert El. ft	= 14.00	16.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.000
Orif. Coeff.	= 0.60	0.60	0.60	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 1.00	8.00	0.00	0.00
Crest El. ft	= 14.00	16.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Rect	Rect	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0	14.00	0.00	0.00	---	---	0.00	0.00	---	---	---	0.00
0.01	23	14.01	0.00	0.00	---	---	0.00	0.00	---	---	---	0.00
0.01	46	14.01	0.00	0.00	---	---	0.00	0.00	---	---	---	0.01
0.02	69	14.02	0.00	0.00	---	---	0.01	0.00	---	---	---	0.01
0.02	92	14.02	0.01	0.00	---	---	0.01	0.00	---	---	---	0.02
0.03	115	14.03	0.01	0.00	---	---	0.01	0.00	---	---	---	0.03
0.03	138	14.03	0.02	0.00	---	---	0.02	0.00	---	---	---	0.03
0.04	162	14.04	0.02	0.00	---	---	0.02	0.00	---	---	---	0.04
0.04	185	14.04	0.03	0.00	---	---	0.03	0.00	---	---	---	0.06
0.04	208	14.05	0.04	0.00	---	---	0.03	0.00	---	---	---	0.07
0.05	231	14.05	0.05	0.00	---	---	0.04	0.00	---	---	---	0.08
0.06	254	14.06	0.06	0.00	---	---	0.04	0.00	---	---	---	0.10
0.06	277	14.06	0.07	0.00	---	---	0.05	0.00	---	---	---	0.12
0.07	300	14.07	0.08	0.00	---	---	0.06	0.00	---	---	---	0.13
0.07	324	14.07	0.09	0.00	---	---	0.06	0.00	---	---	---	0.15
0.08	347	14.08	0.10	0.00	---	---	0.07	0.00	---	---	---	0.17
0.08	370	14.08	0.12	0.00	---	---	0.08	0.00	---	---	---	0.19

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.09	393	14.09	0.13	0.00	---	---	0.08	0.00	---	---	---	0.21
0.09	417	14.09	0.15	0.00	---	---	0.09	0.00	---	---	---	0.24
0.10	440	14.10	0.16	0.00	---	---	0.10	0.00	---	---	---	0.26
0.10	463	14.10	0.18	0.00	---	---	0.11	0.00	---	---	---	0.29
0.11	486	14.11	0.20	0.00	---	---	0.11	0.00	---	---	---	0.31
0.11	510	14.11	0.22	0.00	---	---	0.12	0.00	---	---	---	0.34
0.12	533	14.12	0.24	0.00	---	---	0.13	0.00	---	---	---	0.37
0.12	557	14.12	0.26	0.00	---	---	0.14	0.00	---	---	---	0.39
0.13	580	14.13	0.28	0.00	---	---	0.15	0.00	---	---	---	0.42
0.13	603	14.13	0.30	0.00	---	---	0.16	0.00	---	---	---	0.46
0.14	627	14.14	0.32	0.00	---	---	0.17	0.00	---	---	---	0.49
0.14	650	14.14	0.34	0.00	---	---	0.17	0.00	---	---	---	0.52
0.15	674	14.15	0.37	0.00	---	---	0.18	0.00	---	---	---	0.55
0.15	697	14.15	0.39	0.00	---	---	0.19	0.00	---	---	---	0.59
0.16	721	14.16	0.42	0.00	---	---	0.20	0.00	---	---	---	0.62
0.16	744	14.16	0.44	0.00	---	---	0.21	0.00	---	---	---	0.66
0.17	768	14.17	0.47	0.00	---	---	0.22	0.00	---	---	---	0.69
0.17	791	14.17	0.50	0.00	---	---	0.23	0.00	---	---	---	0.73
0.18	815	14.18	0.52	0.00	---	---	0.24	0.00	---	---	---	0.77
0.18	838	14.18	0.55	0.00	---	---	0.25	0.00	---	---	---	0.81
0.19	862	14.19	0.58	0.00	---	---	0.26	0.00	---	---	---	0.85
0.19	885	14.19	0.61	0.00	---	---	0.28	0.00	---	---	---	0.89
0.20	909	14.20	0.64	0.00	---	---	0.29	0.00	---	---	---	0.93
0.20	932	14.20	0.67	0.00	---	---	0.30	0.00	---	---	---	0.97
0.21	956	14.21	0.70	0.00	---	---	0.31	0.00	---	---	---	1.01
0.21	980	14.21	0.73	0.00	---	---	0.32	0.00	---	---	---	1.05
0.22	1,004	14.22	0.77	0.00	---	---	0.33	0.00	---	---	---	1.10
0.22	1,027	14.22	0.80	0.00	---	---	0.34	0.00	---	---	---	1.14
0.23	1,051	14.23	0.83	0.00	---	---	0.36	0.00	---	---	---	1.19
0.23	1,075	14.23	0.87	0.00	---	---	0.37	0.00	---	---	---	1.23
0.24	1,098	14.24	0.90	0.00	---	---	0.38	0.00	---	---	---	1.28
0.24	1,122	14.24	0.93	0.00	---	---	0.39	0.00	---	---	---	1.32
0.25	1,146	14.25	0.97	0.00	---	---	0.40	0.00	---	---	---	1.37
0.25	1,169	14.25	1.00	0.00	---	---	0.42	0.00	---	---	---	1.42
0.26	1,193	14.26	1.04	0.00	---	---	0.43	0.00	---	---	---	1.47
0.26	1,217	14.26	1.08	0.00	---	---	0.44	0.00	---	---	---	1.52
0.27	1,241	14.27	1.11	0.00	---	---	0.45	0.00	---	---	---	1.57
0.27	1,265	14.27	1.15	0.00	---	---	0.47	0.00	---	---	---	1.62
0.28	1,289	14.28	1.19	0.00	---	---	0.48	0.00	---	---	---	1.67
0.28	1,313	14.28	1.22	0.00	---	---	0.49	0.00	---	---	---	1.72
0.29	1,336	14.29	1.26	0.00	---	---	0.51	0.00	---	---	---	1.77
0.29	1,360	14.29	1.30	0.00	---	---	0.52	0.00	---	---	---	1.82
0.30	1,384	14.30	1.34	0.00	---	---	0.53	0.00	---	---	---	1.87
0.30	1,408	14.30	1.38	0.00	---	---	0.55	0.00	---	---	---	1.93
0.31	1,432	14.31	1.42	0.00	---	---	0.56	0.00	---	---	---	1.98
0.31	1,456	14.31	1.46	0.00	---	---	0.57	0.00	---	---	---	2.03
0.32	1,480	14.32	1.50	0.00	---	---	0.59	0.00	---	---	---	2.08
0.32	1,504	14.32	1.53	0.00	---	---	0.60	0.00	---	---	---	2.14
0.33	1,528	14.33	1.57	0.00	---	---	0.62	0.00	---	---	---	2.19
0.33	1,552	14.33	1.61	0.00	---	---	0.63	0.00	---	---	---	2.25
0.34	1,576	14.34	1.65	0.00	---	---	0.65	0.00	---	---	---	2.30
0.34	1,600	14.34	1.69	0.00	---	---	0.66	0.00	---	---	---	2.35
0.35	1,624	14.35	1.74	0.00	---	---	0.67	0.00	---	---	---	2.41
0.35	1,648	14.35	1.77	0.00	---	---	0.69	0.00	---	---	---	2.46
0.36	1,672	14.36	1.81	0.00	---	---	0.70	0.00	---	---	---	2.52
0.36	1,697	14.36	1.86	0.00	---	---	0.72	0.00	---	---	---	2.58
0.37	1,721	14.37	1.90	0.00	---	---	0.73	0.00	---	---	---	2.63
0.37	1,745	14.37	1.94	0.00	---	---	0.75	0.00	---	---	---	2.69
0.38	1,769	14.38	1.98	0.00	---	---	0.76	0.00	---	---	---	2.74
0.38	1,793	14.38	2.02	0.00	---	---	0.78	0.00	---	---	---	2.80
0.39	1,817	14.39	2.06	0.00	---	---	0.80	0.00	---	---	---	2.85
0.39	1,842	14.39	2.10	0.00	---	---	0.81	0.00	---	---	---	2.91
0.40	1,866	14.40	2.14	0.00	---	---	0.83	0.00	---	---	---	2.96
0.40	1,890	14.40	2.18	0.00	---	---	0.84	0.00	---	---	---	3.02
0.41	1,914	14.41	2.22	0.00	---	---	0.86	0.00	---	---	---	3.07
0.41	1,939	14.41	2.26	0.00	---	---	0.87	0.00	---	---	---	3.13
0.42	1,963	14.42	2.29	0.00	---	---	0.89	0.00	---	---	---	3.18
0.42	1,987	14.42	2.33	0.00	---	---	0.91	0.00	---	---	---	3.24
0.43	2,012	14.43	2.37	0.00	---	---	0.92	0.00	---	---	---	3.29
0.43	2,036	14.43	2.41	0.00	---	---	0.94	0.00	---	---	---	3.35

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Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.44	2,060	14.44	2.44	0.00	---	---	0.96	0.00	---	---	---	3.40
0.44	2,085	14.44	2.48	0.00	---	---	0.97	0.00	---	---	---	3.45
0.45	2,109	14.45	2.52	0.00	---	---	0.99	0.00	---	---	---	3.50
0.45	2,133	14.45	2.55	0.00	---	---	1.01	0.00	---	---	---	3.56
0.46	2,158	14.46	2.59	0.00	---	---	1.02	0.00	---	---	---	3.61
0.46	2,182	14.46	2.62	0.00	---	---	1.04	0.00	---	---	---	3.66
0.47	2,207	14.47	2.65	0.00	---	---	1.06	0.00	---	---	---	3.71
0.47	2,231	14.47	2.68	0.00	---	---	1.07	0.00	---	---	---	3.76
0.48	2,256	14.48	2.71	0.00	---	---	1.09	0.00	---	---	---	3.80
0.48	2,280	14.48	2.74	0.00	---	---	1.11	0.00	---	---	---	3.85
0.49	2,305	14.49	2.77	0.00	---	---	1.12	0.00	---	---	---	3.89
0.49	2,329	14.49	2.79	0.00	---	---	1.14	0.00	---	---	---	3.94
0.50	2,354	14.50	2.82	0.00	---	---	1.16	0.00	---	---	---	3.98
0.50	2,378	14.50	2.84	0.00	---	---	1.18	0.00	---	---	---	4.01
0.51	2,403	14.51	2.86	0.00	---	---	1.20	0.00	---	---	---	4.06
0.51	2,427	14.51	2.89	0.00	---	---	1.21	0.00	---	---	---	4.10
0.52	2,452	14.52	2.92	0.00	---	---	1.23	0.00	---	---	---	4.15
0.52	2,477	14.52	2.95	0.00	---	---	1.25	0.00	---	---	---	4.20
0.53	2,501	14.53	2.97	0.00	---	---	1.27	0.00	---	---	---	4.24
0.53	2,526	14.53	3.00	0.00	---	---	1.28	0.00	---	---	---	4.29
0.54	2,551	14.54	3.03	0.00	---	---	1.30	0.00	---	---	---	4.33
0.54	2,575	14.54	3.05	0.00	---	---	1.32	0.00	---	---	---	4.38
0.55	2,600	14.55	3.08	0.00	---	---	1.34	0.00	---	---	---	4.42
0.55	2,625	14.55	3.11	0.00	---	---	1.36	0.00	---	---	---	4.46
0.56	2,649	14.56	3.13	0.00	---	---	1.38	0.00	---	---	---	4.51
0.56	2,674	14.56	3.16	0.00	---	---	1.40	0.00	---	---	---	4.55
0.57	2,699	14.57	3.18	0.00	---	---	1.41	0.00	---	---	---	4.60
0.57	2,724	14.57	3.21	0.00	---	---	1.43	0.00	---	---	---	4.64
0.58	2,749	14.58	3.23	0.00	---	---	1.45	0.00	---	---	---	4.69
0.58	2,774	14.58	3.26	0.00	---	---	1.47	0.00	---	---	---	4.73
0.59	2,798	14.59	3.28	0.00	---	---	1.49	0.00	---	---	---	4.77
0.59	2,823	14.59	3.31	0.00	---	---	1.51	0.00	---	---	---	4.82
0.60	2,848	14.60	3.33	0.00	---	---	1.53	0.00	---	---	---	4.86
0.60	2,873	14.60	3.36	0.00	---	---	1.55	0.00	---	---	---	4.90
0.61	2,898	14.61	3.38	0.00	---	---	1.57	0.00	---	---	---	4.95
0.61	2,923	14.61	3.40	0.00	---	---	1.59	0.00	---	---	---	4.99
0.62	2,948	14.62	3.43	0.00	---	---	1.61	0.00	---	---	---	5.03
0.62	2,973	14.62	3.45	0.00	---	---	1.63	0.00	---	---	---	5.08
0.63	2,998	14.63	3.47	0.00	---	---	1.65	0.00	---	---	---	5.12
0.63	3,023	14.63	3.50	0.00	---	---	1.67	0.00	---	---	---	5.16
0.64	3,048	14.64	3.52	0.00	---	---	1.69	0.00	---	---	---	5.20
0.64	3,073	14.64	3.54	0.00	---	---	1.70	0.00	---	---	---	5.25
0.65	3,097	14.65	3.56	0.00	---	---	1.72	0.00	---	---	---	5.29
0.65	3,122	14.65	3.59	0.00	---	---	1.75	0.00	---	---	---	5.33
0.66	3,148	14.66	3.61	0.00	---	---	1.77	0.00	---	---	---	5.37
0.66	3,173	14.66	3.63	0.00	---	---	1.79	0.00	---	---	---	5.42
0.67	3,198	14.67	3.65	0.00	---	---	1.81	0.00	---	---	---	5.46
0.67	3,223	14.67	3.68	0.00	---	---	1.83	0.00	---	---	---	5.50
0.68	3,248	14.68	3.70	0.00	---	---	1.85	0.00	---	---	---	5.54
0.68	3,273	14.68	3.72	0.00	---	---	1.87	0.00	---	---	---	5.59
0.69	3,298	14.69	3.74	0.00	---	---	1.89	0.00	---	---	---	5.63
0.69	3,323	14.69	3.76	0.00	---	---	1.91	0.00	---	---	---	5.67
0.70	3,349	14.70	3.78	0.00	---	---	1.93	0.00	---	---	---	5.71
0.70	3,374	14.70	3.80	0.00	---	---	1.95	0.00	---	---	---	5.76
0.71	3,399	14.71	3.83	0.00	---	---	1.97	0.00	---	---	---	5.80
0.71	3,424	14.71	3.85	0.00	---	---	1.99	0.00	---	---	---	5.84
0.72	3,450	14.72	3.87	0.00	---	---	2.01	0.00	---	---	---	5.88
0.72	3,475	14.72	3.89	0.00	---	---	2.03	0.00	---	---	---	5.92
0.73	3,500	14.73	3.91	0.00	---	---	2.06	0.00	---	---	---	5.96
0.73	3,525	14.73	3.93	0.00	---	---	2.08	0.00	---	---	---	6.01
0.74	3,551	14.74	3.95	0.00	---	---	2.10	0.00	---	---	---	6.05
0.74	3,576	14.74	3.97	0.00	---	---	2.12	0.00	---	---	---	6.09
0.75	3,601	14.75	3.99	0.00	---	---	2.14	0.00	---	---	---	6.13
0.75	3,627	14.75	4.01	0.00	---	---	2.16	0.00	---	---	---	6.17
0.76	3,652	14.76	4.03	0.00	---	---	2.18	0.00	---	---	---	6.22
0.76	3,678	14.76	4.05	0.00	---	---	2.21	0.00	---	---	---	6.26
0.77	3,703	14.77	4.07	0.00	---	---	2.23	0.00	---	---	---	6.30
0.77	3,728	14.77	4.09	0.00	---	---	2.25	0.00	---	---	---	6.34
0.78	3,754	14.78	4.11	0.00	---	---	2.27	0.00	---	---	---	6.38
0.78	3,779	14.78	4.13	0.00	---	---	2.29	0.00	---	---	---	6.42

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.79	3,805	14.79	4.15	0.00	---	---	2.32	0.00	---	---	---	6.46
0.79	3,830	14.79	4.17	0.00	---	---	2.34	0.00	---	---	---	6.51
0.80	3,856	14.80	4.19	0.00	---	---	2.36	0.00	---	---	---	6.55
0.80	3,881	14.80	4.21	0.00	---	---	2.38	0.00	---	---	---	6.59
0.81	3,907	14.81	4.23	0.00	---	---	2.41	0.00	---	---	---	6.63
0.81	3,932	14.81	4.24	0.00	---	---	2.43	0.00	---	---	---	6.67
0.82	3,958	14.82	4.26	0.00	---	---	2.45	0.00	---	---	---	6.71
0.82	3,984	14.82	4.28	0.00	---	---	2.47	0.00	---	---	---	6.75
0.83	4,009	14.83	4.30	0.00	---	---	2.50	0.00	---	---	---	6.80
0.83	4,035	14.83	4.32	0.00	---	---	2.52	0.00	---	---	---	6.84
0.84	4,060	14.84	4.34	0.00	---	---	2.54	0.00	---	---	---	6.88
0.84	4,086	14.84	4.36	0.00	---	---	2.56	0.00	---	---	---	6.92
0.85	4,112	14.85	4.38	0.00	---	---	2.59	0.00	---	---	---	6.96
0.85	4,137	14.85	4.39	0.00	---	---	2.61	0.00	---	---	---	7.00
0.86	4,163	14.86	4.41	0.00	---	---	2.63	0.00	---	---	---	7.04
0.86	4,189	14.86	4.43	0.00	---	---	2.66	0.00	---	---	---	7.09
0.87	4,215	14.87	4.45	0.00	---	---	2.68	0.00	---	---	---	7.13
0.87	4,240	14.87	4.47	0.00	---	---	2.70	0.00	---	---	---	7.17
0.88	4,266	14.88	4.48	0.00	---	---	2.73	0.00	---	---	---	7.21
0.88	4,292	14.88	4.50	0.00	---	---	2.75	0.00	---	---	---	7.25
0.89	4,318	14.89	4.52	0.00	---	---	2.77	0.00	---	---	---	7.29
0.89	4,343	14.89	4.54	0.00	---	---	2.80	0.00	---	---	---	7.33
0.90	4,369	14.90	4.56	0.00	---	---	2.82	0.00	---	---	---	7.37
0.90	4,395	14.90	4.57	0.00	---	---	2.84	0.00	---	---	---	7.42
0.91	4,421	14.91	4.59	0.00	---	---	2.87	0.00	---	---	---	7.46
0.91	4,447	14.91	4.61	0.00	---	---	2.89	0.00	---	---	---	7.50
0.92	4,473	14.92	4.63	0.00	---	---	2.91	0.00	---	---	---	7.54
0.92	4,499	14.92	4.64	0.00	---	---	2.94	0.00	---	---	---	7.58
0.93	4,525	14.93	4.66	0.00	---	---	2.96	0.00	---	---	---	7.62
0.93	4,551	14.93	4.68	0.00	---	---	2.99	0.00	---	---	---	7.66
0.94	4,577	14.94	4.69	0.00	---	---	3.01	0.00	---	---	---	7.70
0.94	4,602	14.94	4.71	0.00	---	---	3.03	0.00	---	---	---	7.75
0.95	4,628	14.95	4.73	0.00	---	---	3.06	0.00	---	---	---	7.79
0.95	4,654	14.95	4.75	0.00	---	---	3.08	0.00	---	---	---	7.83
0.96	4,680	14.96	4.76	0.00	---	---	3.11	0.00	---	---	---	7.87
0.96	4,707	14.96	4.78	0.00	---	---	3.13	0.00	---	---	---	7.91
0.97	4,733	14.97	4.80	0.00	---	---	3.16	0.00	---	---	---	7.95
0.97	4,759	14.97	4.81	0.00	---	---	3.18	0.00	---	---	---	7.99
0.98	4,785	14.98	4.83	0.00	---	---	3.21	0.00	---	---	---	8.04
0.98	4,811	14.98	4.85	0.00	---	---	3.23	0.00	---	---	---	8.08
0.99	4,837	14.99	4.86	0.00	---	---	3.26	0.00	---	---	---	8.12
0.99	4,863	14.99	4.88	0.00	---	---	3.28	0.00	---	---	---	8.16
1.00	4,889	15.00	4.90	0.00	---	---	3.31	0.00	---	---	---	8.20
1.00	4,915	15.00	4.91	0.00	---	---	3.33	0.00	---	---	---	8.24

...End