LEVEL 2 DRAINAGE STUDY

FLORINIAN TOWNHOMES
7270 & 7298 STOCKTON BLVD
FLORIN, CA

PLNP2022-00258

ELDER CREEK WATERSHED HUC 12 -18021630401

MAY 17, 2023

PREPARED FOR:

TRAFLAGAR HOMES AND SACRAMENTO COUNTY DEPARTMENT OF WATER REOURSES

Prepared by:

AVILA AND ASSOCIATES
CONSULTING ENGINEERS, INC.



Catherine M.C. Avila, P.E

TABLE OF CONTENTS

Table Of Contents 2
List of Figures 3
List of Tables 3
List of Appendices 3
Introduction 4
Existing Conditions 6
Project Description 6
Applicable Standards 6
Previous Studies 6
Objectives of Analysis 7
Baseline (Existing Conditions) 7
Historical Land Use 7
Topographic Sources 7
Offsite Drainage 7
On-Site Drainage 7
Hydrologic Modeling Assumptions 8
Mitigated Project (Proposed Conditions) 10
Proposed Landuse 10
Grading Plan 10
Offsite Channel Drainage Improvements 10
Onsite Improvements 10
Hydrologic Modeling Assumptions 10
Regional Flood Control and Stormwater Quality 12
Stormwater Quality Treatment 12
Hydromodification 12
Low Impact Design (LID) 13
Summary of Findings 13
Appendices 14

LIST OF FIGURES

Figure 1. Vicinity Map 4
Figure 2. Watershed map (USGS). 5
Figure 3. FIRMette showing FEMA flood zones at the project. 6
Figure 4. Existing Drainage Conditions. Project area outlined in yellow (Google Earth Street View). 7
Figure 5. Hydrologic Soil Groups (blue is rating C and red is rating D). 9

LIST OF TABLES

Table 1. Existing Conditions Watershed Parameters 8
Table 2. Proposed Conditions Watershed Parameters for Impervious and Landscaped Areas 11
Table 3. Bioretention Facility Parameters 12
Table 4. Storage Tank Parameters 13

LIST OF APPENDICES

Appendix A – SAHM Model Output
Appendix B – Project Plans
Appendix C – Web Soil Survey Soil Type Results
Appendix D – Treatment and LID Calculator

Trafalgar Homes is proposing to construct 38 multi-family townhomes (condominiums) on an approximate 1.8 net acre lot located at 7270-7298 Stockton Blvd. between 66th Street and Requa Way in the southeastern region of Sacramento, CA as shown in Figure 1.

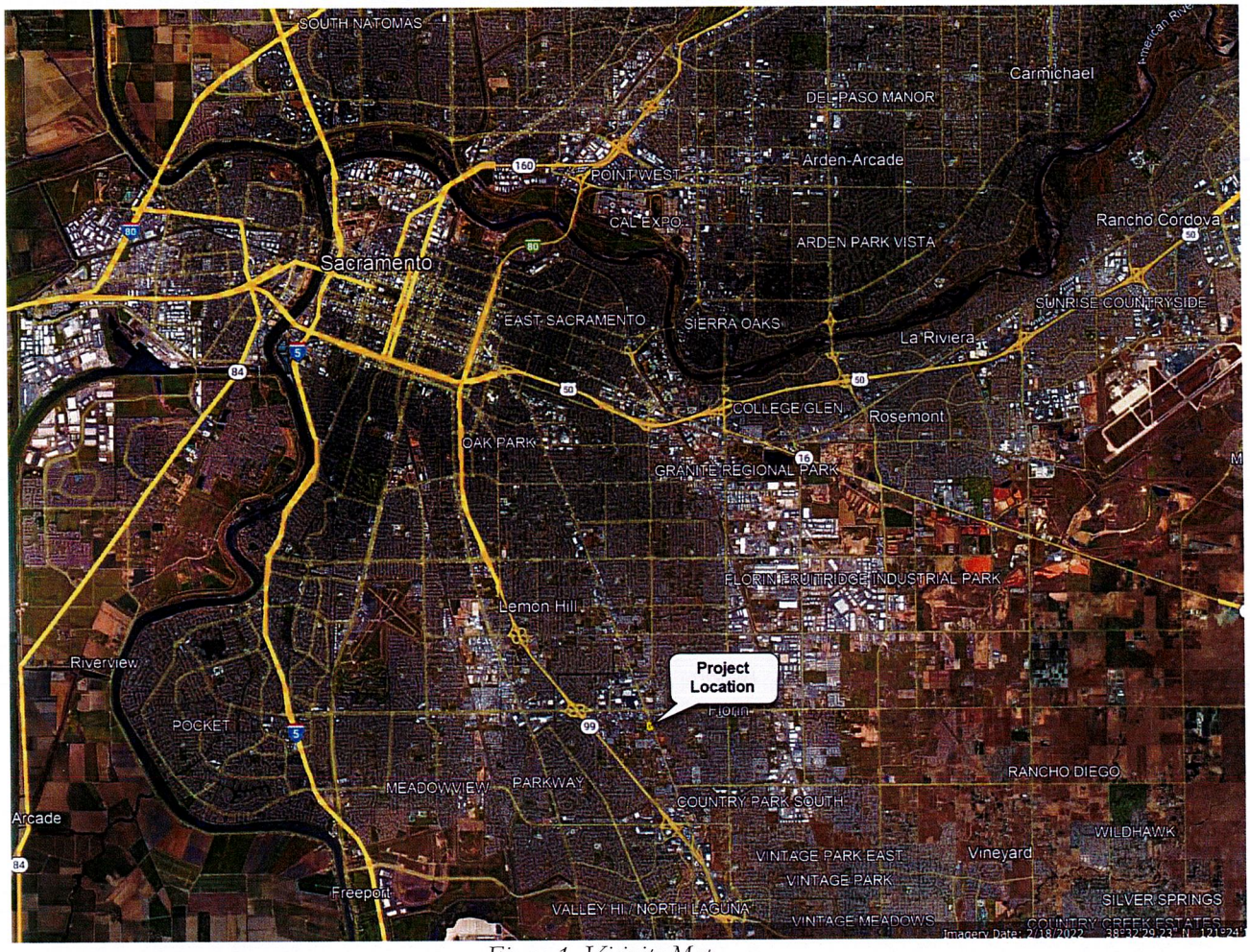


Figure 1. Vicinity Map

The project will be located in the Elder Creek Watershed HUC – 180201630401 as shown in Figure 2 and is located in a FEMA Zone X, and area with a 0.2% chance flood hazard, or 1% chance flood hazard with depths less than 1 ft or with drainage areas of less than 1 square mile as shown in Figure 3.

Locate Your Stream Site by 12-digit HUC - 180201630401 Elder Creek

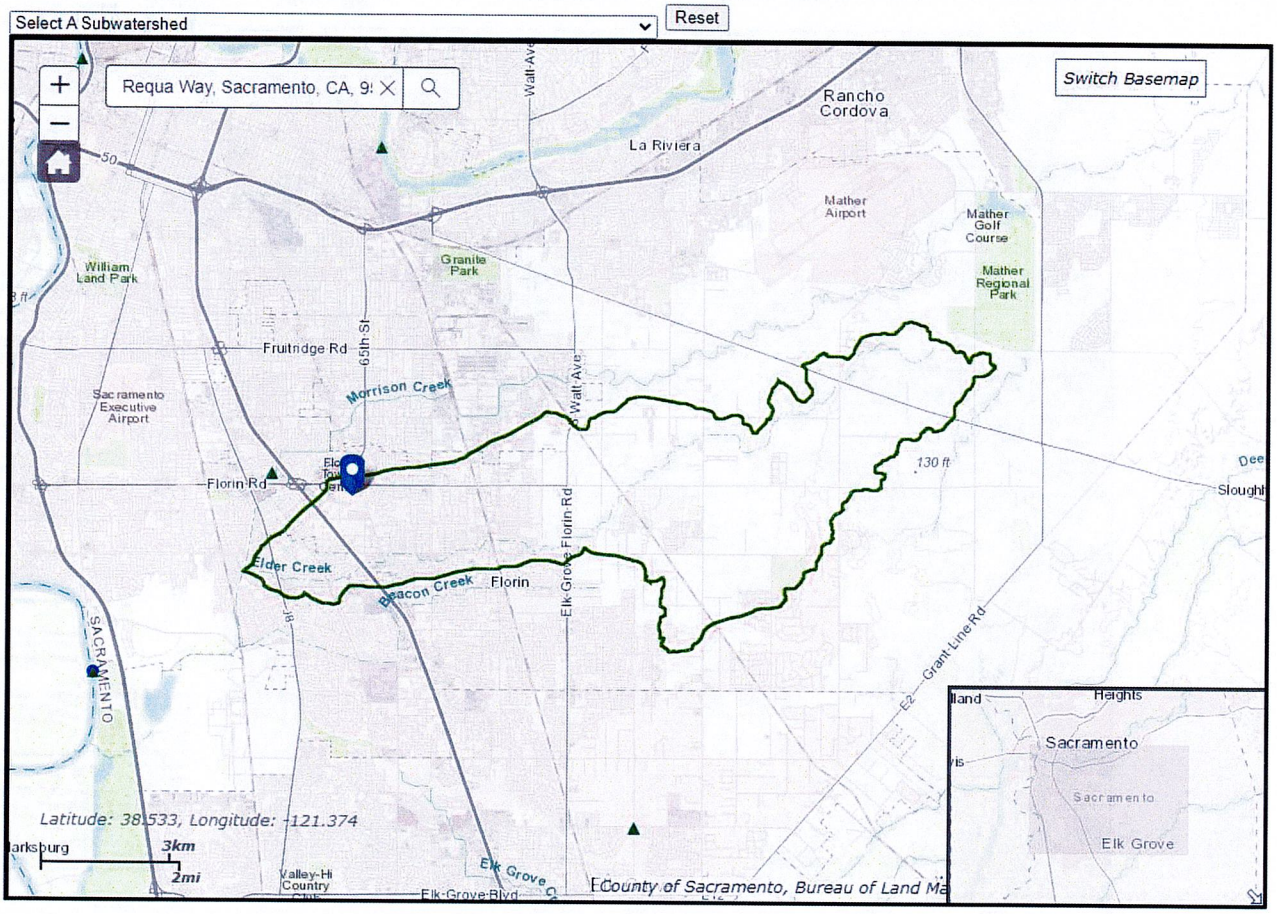


Figure 2. Watershed map (USGS[1]).

[1] https://water.usgs.gov/wsc/a_api/wbd/subwatershed18/180201630401.html

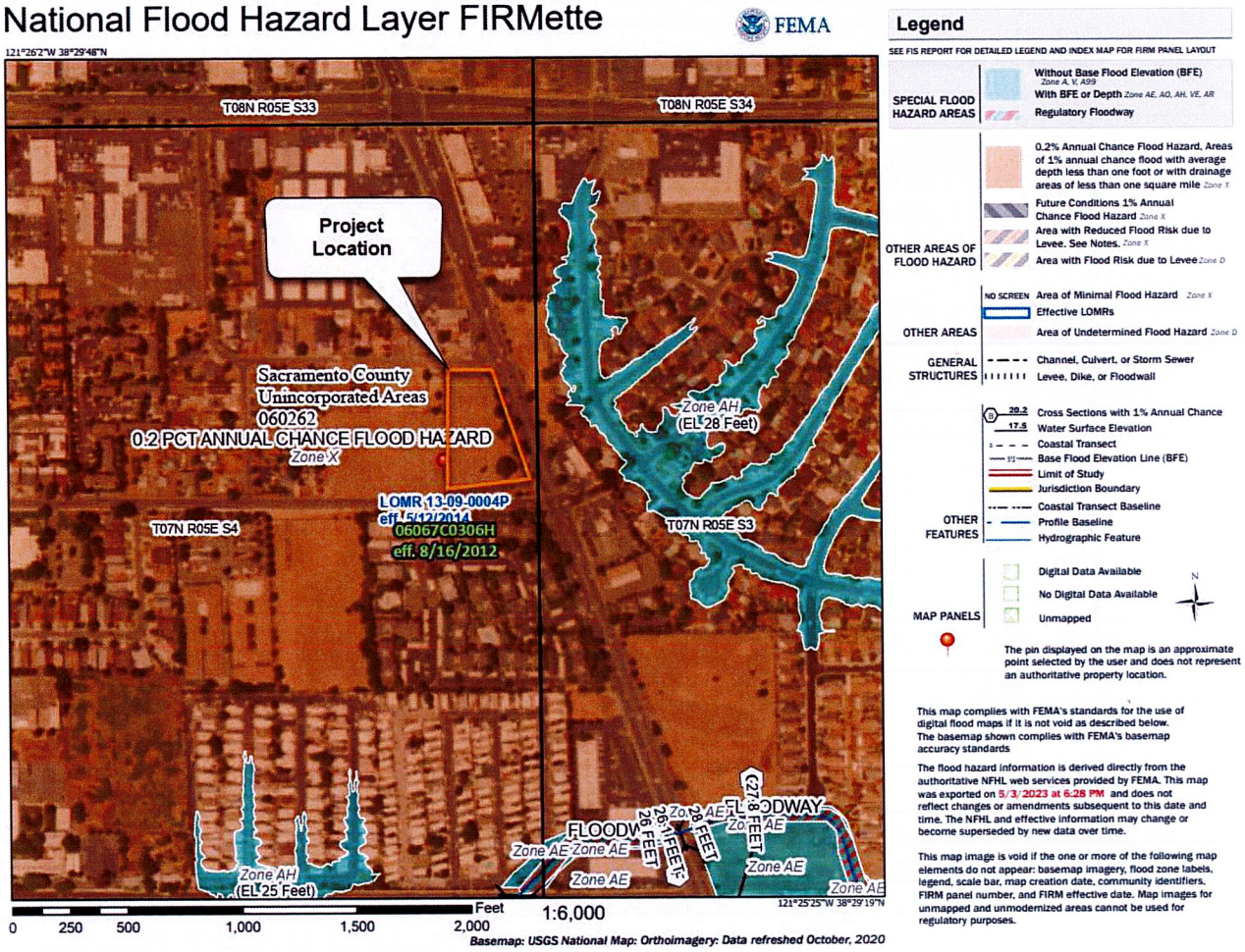


Figure 3. FIRMette showing FEMA flood zones at the project.

Existing Conditions

The existing 1.8 net acre lot is vacant and covered in grasses.

Project Description

The proposed project is to construct 38 multi-family townhomes (condominiums) on an approximate 1.8 net acre lot.

Applicable Standards

The project must comply with the stormwater quality and hydromodification requirements outlined in the Sacramento Region Stormwater Quality Design Manual to meet the requirements of the National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permits.

Previous Studies

There have been no previous drainage studies completed for the project.

Objectives of Analysis

The objective of this analysis is to summarize the drainage features proposed as part of the development and document how the project meets the stormwater quality and hydromodification requirements through the use of landscaped areas, bioretention facilities, and underground storage.

BASELINE (EXISTING CONDITIONS)

Historical Land Use

The existing lot is vacant and has not had any historical land use outside of its vacancy.

Topographic Sources

Topographic sources for the project were provided by Giuliani & Kull-Auburn, Inc.

Offsite Drainage

The project lot is flat and drainage from the adjacent roadways is captured in the storm drain system before offsite drainage could reach the project site. Therefore, there is no offsite drainage on the project location.

On-Site Drainage

The existing lot is flat and vegetated with grasses. On-Site drainage from the project under existing conditions is minimal. Flow travels from the project site to the adjacent property to the west. The flows from the project location and adjacent lot then travel to the drainage swale and enter the storm drain on 66th street. Flow from 66th Street then enters the storm drain on Stockton Blvd. The existing lot looking northeast from 66th street is shown in Google Street View in Figure 4.



Figure 4. Existing Drainage Conditions. Project area outlined in yellow (Google Earth Street View).

CREEKS/STREAMS

There are no creeks or streams through or adjacent to the project.

OTHER CONVEYANCE

There is no other conveyance for the project.

Hydrologic Modeling Assumptions

SOFTWARE APPLICATION

The Sacramento Area Hydrology Model (SAHM) is the modeling software used for the hydromodification analysis of the project. As the project area does not include any creeks, stream, or rivers hydraulic modeling, outside of the Stormwater Quality Treatment and Hydromodification calculations, was not performed for the project area.

WATERSHED DELINEATION

Under existing conditions, the lot has only one watershed and there are no ridge lines. The land use for this watershed is vacant with grasses and the soil type is 57.1% C and 42.9% D as shown in Figure 5. All flow passes to the adjacent lot to the west before flowing to the storm drain system on 66th Street. There is no storage under existing conditions

Table 1. Existing Conditions Watershed Parameters

Watershed ID	Land Use	Soil Type
1	Grasses	57.1% C and 42.9% D

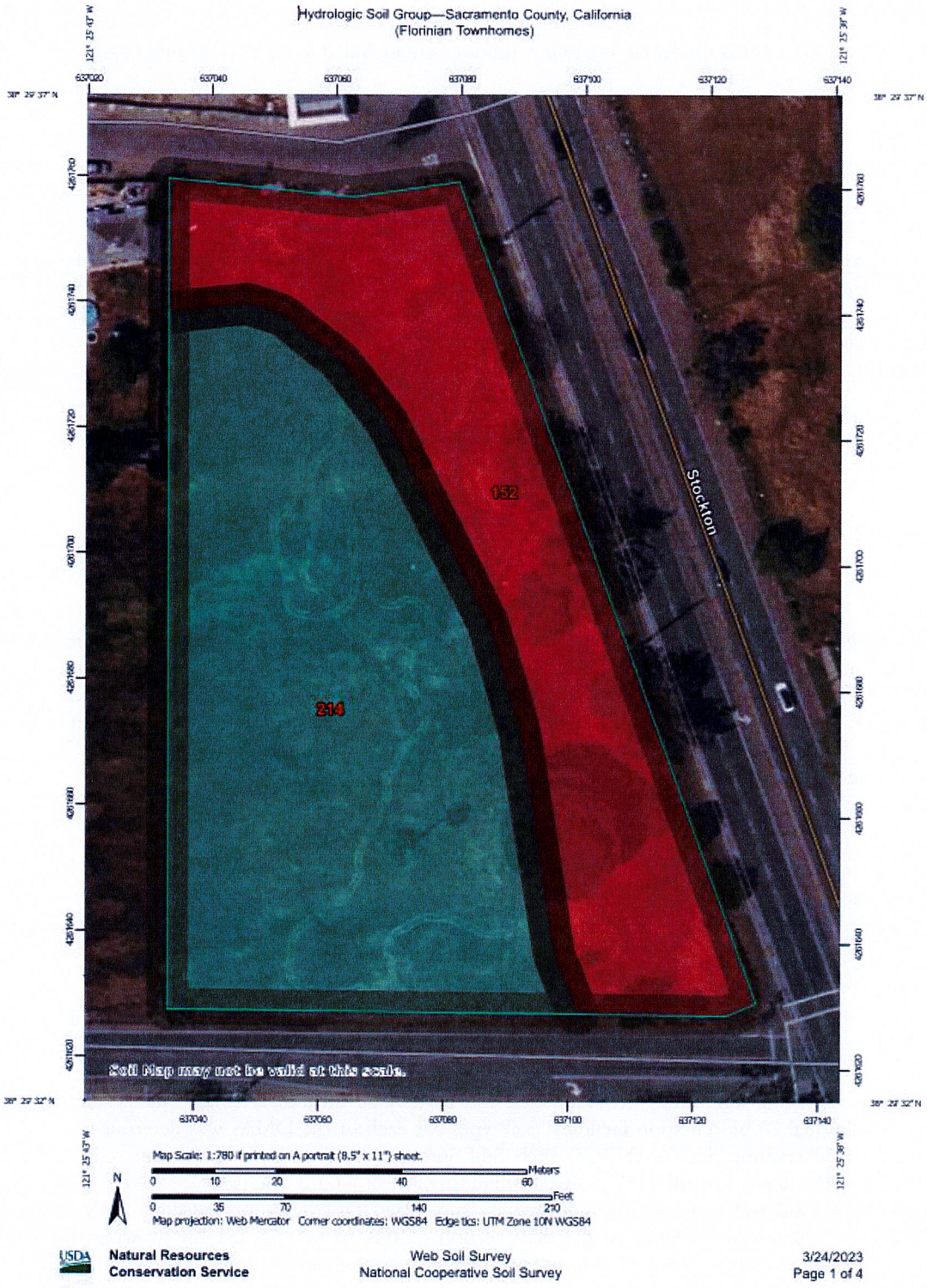


Figure 5. Hydrologic Soil Groups (blue is rating C and red is rating D).

SUMMARY OF DISCHARGES

Results of the SAHM model for existing conditions are included in the SAHM output provided in Appendix A.

MITIGATED PROJECT (PROPOSED CONDITIONS)

Proposed Land Use

The proposed project will convert the existing vacant lot to a development with 38 multi-family townhomes (condominiums). The project will include landscaped areas for backyards and bioretention facilities for water treatment and hydromodification and will include impervious parking areas, roadways, and sidewalks in addition to the housing units. The proposed layout is included with the project plans in Appendix B.

Grading Plan

The grading plan for the project is included with the project plans in Appendix B.

Offsite Channel Drainage Improvements

There will be no offsite channel drainage improvements as part of the project.

Onsite Improvements

Drainage on the project site will be collected by curb and gutter and conveyed to the 20 bioretention facilities on the project site. Three additional below ground tank storage areas will be included to meet the hydromodification requirements. These improvements are shown in the project plans included in Appendix B. Water from the project site will enter the existing storm drain in locations along Requa Way, Stockton Blvd, and 66th Street. Ultimately, these systems all lead to the main storm drain on Stockton Boulevard as they do under existing conditions.

Hydrologic Modeling Assumptions

SOFTWARE APPLICATION

The Sacramento Area Hydrology Model (SAHM) is the model for existing conditions was updated for the Mitigated or Proposed Conditions and used for the hydromodification analysis of the project.

WATERSHED DELINEATION

Under proposed conditions, the watershed will be divided into 20 Drainage Management Areas (DMAs) with an additional 20 bioretention facilities. Soil types for each of the DMAs was determined using the Natural Resources Conservation Service (NRCS) Web Soil Survey. The Web Soil Survey can only be used for areas greater than 0.05 acres. For the DMAs smaller than this threshold, the soil type was assumed to be type D. The area, land use, and soil types for the impervious/landscaped DMAs are provided in Table 2. Details for the bioretention facilities are included in the next section of this report. An exhibit showing the DMAs for the project is included with the project plans in Appendix B. Web Soil Survey Results for each DMA are included in Appendix C.

Table 2. Proposed Conditions Watershed Parameters for Impervious and Landscaped Areas

Watershed (DMA) ID	Area (acres)	Land Use	Soil Type
1	0.124	100 % Impervious	50% C, 50% D
2	0.112	100 % Impervious	100% C
3	0.097	100 % Impervious	100% C
4	0.182	100 % Impervious	100% C
5	0.054	100 % Impervious	100% C
6	0.127	100 % Impervious	49.2% C, 50.8% D
7	0.012	100 % Impervious	Assumed 100% D
8	0.184	2% Landscaped, 98 % Impervious	57.2% C, 42.7% D
9	0.010	100 % Impervious	Assumed 100% D
10	0.038	100 % Impervious	Assumed 100% D
11	0.035	100 % Impervious	Assumed 100% D
12	0.057	100 % Impervious	100% C
13	0.053	100 % Impervious	100% C
14	0.057	100 % Impervious	100% C
15	0.052	100 % Impervious	100% C
16	0.088	45% Landscaped, 55 % Impervious	2% C, 98% D
17	0.055	3% Landscaped, 97 % Impervious	26.6% C, 73.4% D
18	0.063	33% Landscaped, 67 % Impervious	72.9% C, 27.1% D
19	0.089	29% Landscaped, 71 % Impervious	60% C, 40% D
20	0.094	30% Landscaped, 70 % Impervious	70.2% C, 29.8% D

SUMMARY OF DISCHARGES

Results of the SAHM model for proposed conditions are included in the SAHM output provided in Appendix A. The project passes for all flow conditions analyzed in the SAHM model.

Stormwater Quality Treatment

Stormwater at the project site will be treated in 20 bioretention facilities. The Low Impact Design and Treatment BMP Sizing Calculations was used to ensure the bioretention facilities are adequately sized for stormwater treatment. These calculations are included in Appendix D. The total bioretention facility area is 8,213 ft^2.

Table 3. Bioretention Facility Parameters

Watershed (DMA) ID	Area (ft^2)
1R	917
2R	151
3R	197
4R	239
5R	397
6R	714
7R	100
8R	957
9R	204
10S	319
11S	305
12S	404
13S	398
14S	447
15S	433
16S	528
17S	392
18S	355
19S	362
20S	394

Hydromodification

The 20 bioretention facilities described above will also aid in hydromodification for the project. In addition, three areas of storage pipes will be included below ground to meet the hydromodification requirements. In the

SAHM model, the bioretention facilities were designed to allow infiltration into the native soils below the facilities. The infiltration rate for each was set using the parameters in the SAHM Manual assuming type D soils to provide a conservative estimate of the infiltration capacity of the native soils. This assumption can be refined during final design to allow bioretention facilities with type C soils to have additional native infiltration and potentially reduce the required bioretention facility size.

The success of the basins and tanks for hydromodification depends highly on their outlet configurations. These configurations are specified in the SAHM model for each basin and tank and will be refined during final design. Details of the three storage tank areas are provided in Table 4.

Table 4. Storage Tank Parameters

Tank	Pipe Dimensions
1	5x40' of 24" diameter
2	5x39' of 24" diameter
3	2x27', 4x51' and 5x30' of 24" diameter

Low Impact Design (LID)

Low Impact Design (LID) elements like interceptor trees will be incorporated into the project design to the extend possible. For the Tentative Map phase, it was assumed these elements were not included to provide a conservative estimate of the bioretention facility sizes needed to meet the treatment requirements. The Low Impact Design and Treatment BMP Sizing Calculations are included in Appendix C and demonstrate the project meets LID requirements with the bioretention facilities.

SUMMARY OF FINDINGS

The proposed project will include 38 multi-family townhomes on approximately 1.8 acres of existing vacant land. The LID and Treatment requirements are satisfied by with the incorporation of 20 bioretention facilities throughout the project site. Hydromodification requirements are satisfied with these bioretention facilities and the inclusion of three storage tank areas as demonstrated in using the SAHM.

APPENDICES

SAHM

PROJECT REPORT

General Model Information

Project Name:	Florinian Townhomes 15may2023
Site Name:	Florinian Townhomes
Site Address:	7270 & 7298 Stockton Blvd
City:	Sacramento
Report Date:	5/16/2023
Gage:	ELK GROV
Data Start:	1963/10/01
Data End:	2004/09/30
Timestep:	Hourly
Precip Scale:	1.000
Version Date:	2021/05/25

POC Thresholds

Low Flow Threshold for POC1:	25 Percent of the 2 Year
High Flow Threshold for POC1:	10 Year

Landuse Basin Data

Pre-Project Land Use

Basin 1

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
C,Grass,Flat(0-1%)	1.011
D,Grass,Flat(0-1%)	0.759
Pervious Total	1.77

Impervious Land Use	acre
Impervious Total	0
Basin Total	1.77

Element Flows To:

Surface	Interflow	Groundwater

Mitigated Land Use

Basin 1

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.124
Impervious Total	0.124
Basin Total	0.124

Element Flows To:

Surface		Interflow		Groundwater
Surface ntion	DMA1R	Surface ntion	DMA1R	

Basin 2

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.112
Impervious Total	0.112
Basin Total	0.112

Element Flows To:

Surface	Interflow	Groundwater
Surface DMA 2R	Surface DMA 2R	

DMA 16

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
D,Grass,Flat(0-1%)	0.0392
C,Grass,Flat(0-1%)	0.0008
Pervious Total	0.04

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.048
Impervious Total	0.048
Basin Total	0.088

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 16S	Surface tention 16S	

DMA 6

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.127
Impervious Total	0.127
Basin Total	0.127

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 6R	Surface etention 6R	

DMA 17

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
D,Grass,Flat(0-1%)	0.002
Pervious Total	0.002

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.053
Impervious Total	0.053
Basin Total	0.055

Element Flows To:

Surface	Interflow	Groundwater
Surface ention 17SF	Surface ention 17SF	

DMA 4

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.182
Impervious Total	0.182
Basin Total	0.182

Element Flows To:

Surface		Interflow		Groundwater
Surface ntion	DMA4R	Surface ntion	DMA4R	

DMA 5

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.054
Impervious Total	0.054
Basin Total	0.054

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 5R	Surface etention 5R	

DMA 7

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.012
Impervious Total	0.012
Basin Total	0.012

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 7R	Surface etention 7R	

DMA 8

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
C,Grass,Flat(0-1%)	0.002
D,Grass,Flat(0-1%)	0.002
Pervious Total	0.004

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.18
Impervious Total	0.18
Basin Total	0.184

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 8R	Surface etention 8R	

DMA 9

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.01
Impervious Total	0.01
Basin Total	0.01

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 9R	Surface etention 9R	

DMA 10

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.038
Impervious Total	0.038
Basin Total	0.038

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 10S	Surface tention 10S	

DMA 11

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.035
Impervious Total	0.035
Basin Total	0.035

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 11S	Surface tention 11S	

DMA 12

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.057
Impervious Total	0.057
Basin Total	0.057

Element Flows To:

Surface		Interflow		Groundwater
Surface tion	DMA12S	Surface tion	DMA12S	

DMA 13

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.053
Impervious Total	0.053
Basin Total	0.053

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 13S	Surface tention 13S	

DMA 14

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.057
Impervious Total	0.057
Basin Total	0.057

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 14S	Surface tention 14S	

DMA 15

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.052
Impervious Total	0.052
Basin Total	0.052

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 15S	Surface tention 15S	

DMA 18

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
D,Grass,Flat(0-1%)	0.006
C,Grass,Flat(0-1%)	0.015
Pervious Total	0.021

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.042
Impervious Total	0.042
Basin Total	0.063

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 18S	Surface tention 18S	

DMA 19

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
D,Grass,Flat(0-1%)	0.01
C,Grass,Flat(0-1%)	0.016
Pervious Total	0.026

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.063
Impervious Total	0.063
Basin Total	0.089

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 19S	Surface tention 19S	

DMA 20

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
D,Grass,Flat(0-1%)	0.008
C,Grass,Flat(0-1%)	0.02
Pervious Total	0.028

Impervious Land Use	acre
Imperv,Flat(0-1%)	0.066
Impervious Total	0.066
Basin Total	0.094

Element Flows To:

Surface	Interflow	Groundwater
Surface tention 20S	Surface tention 20S	

DMA3

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Imperv,Flat(0-1%)	0.097
Impervious Total	0.097
Basin Total	0.097

Element Flows To:

Surface	Interflow	Groundwater
Surface etention 3R	Surface etention 3R	

Bioretention DMA1R

Bottom Length:	30.28 ft.
Bottom Width:	30.28 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.872
Total Volume Through Riser (ac-ft.):	0.032
Total Volume Through Facility (ac-ft.):	6.477
Percent Infiltrated:	13.46
Total Precip Applied to Facility:	0.984
Total Evap From Facility:	0.668
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.5
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	5.573
Total Outflow (ac-ft.):	6.477
Percent Through Underdrain:	86.04
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0210	0.0000	0.0000	0.0000
0.0444	0.0210	0.0004	0.0003	0.0000
0.0889	0.0210	0.0008	0.0003	0.0000
0.1333	0.0210	0.0011	0.0003	0.0000
0.1778	0.0210	0.0015	0.0003	0.0000
0.2222	0.0210	0.0019	0.0003	0.0000
0.2667	0.0210	0.0023	0.0003	0.0000
0.3111	0.0210	0.0026	0.0003	0.0000
0.3556	0.0210	0.0030	0.0003	0.0000
0.4000	0.0210	0.0034	0.0003	0.0000
0.4444	0.0210	0.0038	0.0003	0.0000
0.4889	0.0210	0.0041	0.0003	0.0000
0.5333	0.0210	0.0045	0.0003	0.0002
0.5778	0.0210	0.0049	0.0003	0.0002
0.6222	0.0210	0.0053	0.0003	0.0003
0.6667	0.0210	0.0057	0.0003	0.0003
0.7111	0.0210	0.0061	0.0003	0.0003
0.7556	0.0210	0.0065	0.0003	0.0003
0.8000	0.0210	0.0069	0.0003	0.0003
0.8444	0.0210	0.0073	0.0003	0.0003

0.8889	0.0210	0.0077	0.0003	0.0003
0.9333	0.0210	0.0081	0.0003	0.0003
0.9778	0.0210	0.0085	0.0003	0.0003
1.0222	0.0210	0.0089	0.0003	0.0003
1.0667	0.0210	0.0092	0.0003	0.0003
1.1111	0.0210	0.0096	0.0003	0.0003
1.1556	0.0210	0.0100	0.0003	0.0003
1.2000	0.0210	0.0104	0.0003	0.0003
1.2444	0.0210	0.0108	0.0003	0.0003
1.2889	0.0210	0.0112	0.0003	0.0003
1.3333	0.0210	0.0116	0.0003	0.0003
1.3778	0.0210	0.0120	0.0003	0.0003
1.4222	0.0210	0.0124	0.0003	0.0003
1.4667	0.0210	0.0128	0.0003	0.0003
1.5111	0.0210	0.0132	0.0003	0.0003
1.5556	0.0210	0.0136	0.0003	0.0003
1.6000	0.0210	0.0140	0.0003	0.0003
1.6444	0.0210	0.0144	0.0003	0.0003
1.6889	0.0210	0.0147	0.0003	0.0003
1.7333	0.0210	0.0151	0.0003	0.0003
1.7778	0.0210	0.0155	0.0003	0.0003
1.8222	0.0210	0.0159	0.0003	0.0003
1.8667	0.0210	0.0163	0.0003	0.0003
1.9111	0.0210	0.0167	0.0003	0.0003
1.9556	0.0210	0.0171	0.0003	0.0003
2.0000	0.0210	0.0175	0.0003	0.0003
2.0444	0.0210	0.0179	0.0003	0.0003
2.0889	0.0210	0.0183	0.0003	0.0003
2.1333	0.0210	0.0187	0.0003	0.0003
2.1778	0.0210	0.0190	0.0003	0.0003
2.2222	0.0210	0.0194	0.0003	0.0003
2.2667	0.0210	0.0198	0.0003	0.0003
2.3111	0.0210	0.0202	0.0003	0.0003
2.3556	0.0210	0.0206	0.0003	0.0003
2.4000	0.0210	0.0210	0.0003	0.0003
2.4444	0.0210	0.0214	0.0003	0.0003
2.4889	0.0210	0.0218	0.0003	0.0003
2.5333	0.0210	0.0221	0.0003	0.0003
2.5778	0.0210	0.0225	0.0003	0.0003
2.6222	0.0210	0.0229	0.0003	0.0003
2.6667	0.0210	0.0233	0.0003	0.0003
2.7111	0.0210	0.0237	0.0003	0.0003
2.7556	0.0210	0.0241	0.0003	0.0003
2.8000	0.0210	0.0245	0.0003	0.0003
2.8444	0.0210	0.0249	0.0003	0.0003
2.8889	0.0210	0.0253	0.0003	0.0003
2.9333	0.0210	0.0256	0.0003	0.0003
2.9778	0.0210	0.0260	0.0003	0.0003
3.0222	0.0210	0.0270	0.0003	0.0003
3.0667	0.0210	0.0279	0.0003	0.0003
3.1111	0.0210	0.0288	0.0003	0.0003
3.1556	0.0210	0.0298	0.0003	0.0003
3.2000	0.0210	0.0307	0.0003	0.0003
3.2444	0.0210	0.0316	0.0003	0.0003
3.2889	0.0210	0.0326	0.0003	0.0003
3.3333	0.0210	0.0335	0.0003	0.0003
3.3778	0.0210	0.0345	0.0003	0.0003
3.4222	0.0210	0.0354	0.0003	0.0003

3.4667	0.0210	0.0363	0.0003	0.0003
3.5111	0.0210	0.0373	0.0003	0.0003
3.5556	0.0210	0.0382	0.0003	0.0003
3.6000	0.0210	0.0391	0.0003	0.0003
3.6444	0.0210	0.0401	0.0003	0.0003
3.6889	0.0210	0.0410	0.0003	0.0003
3.7333	0.0210	0.0419	0.0003	0.0003
3.7778	0.0210	0.0429	0.0003	0.0003
3.8222	0.0210	0.0438	0.0003	0.0003
3.8667	0.0210	0.0447	0.0003	0.0003
3.9111	0.0210	0.0457	0.0003	0.0003
3.9556	0.0210	0.0466	0.0003	0.0003

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.9556	0.0210	0.0466	0.0000	0.0003	0.0000
4.0000	0.0210	0.0475	0.0000	0.0003	0.0000
4.0444	0.0210	0.0485	0.0000	0.0003	0.0000
4.0000	0.0210	0.0473	0.0000	0.1499	0.0000

Surface ntion DMA1R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention DMA1R

DMA 2R

Bottom Length:	12.30 ft.
Bottom Width:	12.30 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.096
Total Volume Through Riser (ac-ft.):	0.402
Total Volume Through Facility (ac-ft.):	5.606
Percent Infiltrated:	1.71
Total Precip Applied to Facility:	0.163
Total Evap From Facility:	0.124
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.5
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	5.108
Total Outflow (ac-ft.):	5.606
Percent Through Underdrain:	91.12
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2
Tank 1	

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0035	0.0000	0.0000	0.0000
0.0440	0.0035	0.0001	0.0000	0.0000
0.0879	0.0035	0.0001	0.0000	0.0000
0.1319	0.0035	0.0002	0.0000	0.0000
0.1758	0.0035	0.0002	0.0000	0.0000
0.2198	0.0035	0.0003	0.0000	0.0000
0.2637	0.0035	0.0004	0.0000	0.0000
0.3077	0.0035	0.0004	0.0000	0.0000
0.3516	0.0035	0.0005	0.0000	0.0000
0.3956	0.0035	0.0006	0.0000	0.0000
0.4396	0.0035	0.0006	0.0000	0.0000
0.4835	0.0035	0.0007	0.0000	0.0000
0.5275	0.0035	0.0007	0.0000	0.0000
0.5714	0.0035	0.0008	0.0000	0.0000
0.6154	0.0035	0.0009	0.0000	0.0000
0.6593	0.0035	0.0009	0.0000	0.0000
0.7033	0.0035	0.0010	0.0000	0.0000
0.7473	0.0035	0.0011	0.0000	0.0000
0.7912	0.0035	0.0011	0.0000	0.0000
0.8352	0.0035	0.0012	0.0001	0.0001
0.8791	0.0035	0.0013	0.0001	0.0001
0.9231	0.0035	0.0013	0.0001	0.0001

0.9670	0.0035	0.0014	0.0001	0.0001
1.0110	0.0035	0.0014	0.0001	0.0001
1.0549	0.0035	0.0015	0.0001	0.0001
1.0989	0.0035	0.0016	0.0001	0.0001
1.1429	0.0035	0.0016	0.0001	0.0001
1.1868	0.0035	0.0017	0.0001	0.0001
1.2308	0.0035	0.0018	0.0001	0.0001
1.2747	0.0035	0.0018	0.0001	0.0001
1.3187	0.0035	0.0019	0.0001	0.0001
1.3626	0.0035	0.0020	0.0001	0.0001
1.4066	0.0035	0.0020	0.0001	0.0001
1.4505	0.0035	0.0021	0.0001	0.0001
1.4945	0.0035	0.0021	0.0001	0.0001
1.5385	0.0035	0.0022	0.0001	0.0001
1.5824	0.0035	0.0023	0.0001	0.0001
1.6264	0.0035	0.0023	0.0001	0.0001
1.6703	0.0035	0.0024	0.0001	0.0001
1.7143	0.0035	0.0025	0.0001	0.0001
1.7582	0.0035	0.0025	0.0001	0.0001
1.8022	0.0035	0.0026	0.0001	0.0001
1.8462	0.0035	0.0027	0.0001	0.0001
1.8901	0.0035	0.0027	0.0001	0.0001
1.9341	0.0035	0.0028	0.0001	0.0001
1.9780	0.0035	0.0029	0.0001	0.0001
2.0220	0.0035	0.0029	0.0001	0.0001
2.0659	0.0035	0.0030	0.0001	0.0001
2.1099	0.0035	0.0030	0.0001	0.0001
2.1538	0.0035	0.0031	0.0001	0.0001
2.1978	0.0035	0.0032	0.0001	0.0001
2.2418	0.0035	0.0032	0.0001	0.0001
2.2857	0.0035	0.0033	0.0001	0.0001
2.3297	0.0035	0.0034	0.0001	0.0001
2.3736	0.0035	0.0034	0.0001	0.0001
2.4176	0.0035	0.0035	0.0001	0.0001
2.4615	0.0035	0.0036	0.0001	0.0001
2.5055	0.0035	0.0036	0.0001	0.0001
2.5495	0.0035	0.0037	0.0001	0.0001
2.5934	0.0035	0.0037	0.0001	0.0001
2.6374	0.0035	0.0038	0.0001	0.0001
2.6813	0.0035	0.0039	0.0001	0.0001
2.7253	0.0035	0.0039	0.0001	0.0001
2.7692	0.0035	0.0040	0.0001	0.0001
2.8132	0.0035	0.0041	0.0001	0.0001
2.8571	0.0035	0.0041	0.0001	0.0001
2.9011	0.0035	0.0042	0.0001	0.0001
2.9451	0.0035	0.0042	0.0001	0.0001
2.9890	0.0035	0.0043	0.0001	0.0001
3.0000	0.0035	0.0043	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0035	0.0043	0.0000	0.0082	0.0000
3.0440	0.0035	0.0045	0.0000	0.0082	0.0000
3.0879	0.0035	0.0046	0.0000	0.0097	0.0000
3.1319	0.0035	0.0048	0.0000	0.0104	0.0000
3.1758	0.0035	0.0049	0.0000	0.0111	0.0000
3.2198	0.0035	0.0051	0.0000	0.0119	0.0000
3.2637	0.0035	0.0052	0.0000	0.0126	0.0000

3.3077	0.0035	0.0054	0.0000	0.0133	0.0000
3.3516	0.0035	0.0055	0.0000	0.0140	0.0000
3.3956	0.0035	0.0057	0.0000	0.0148	0.0000
3.4396	0.0035	0.0059	0.0000	0.0155	0.0000
3.4835	0.0035	0.0060	0.0000	0.0162	0.0000
3.5275	0.0035	0.0062	0.0002	0.0169	0.0000
3.5714	0.0035	0.0063	0.0003	0.0177	0.0000
3.6154	0.0035	0.0065	0.0005	0.0184	0.0000
3.6593	0.0035	0.0066	0.0006	0.0191	0.0000
3.7033	0.0035	0.0068	0.0008	0.0198	0.0000
3.7473	0.0035	0.0069	0.0010	0.0206	0.0000
3.7912	0.0035	0.0071	0.0012	0.0213	0.0000
3.8352	0.0035	0.0072	0.0013	0.0220	0.0000
3.8791	0.0035	0.0074	0.0013	0.0227	0.0000
3.9231	0.0035	0.0075	0.0015	0.0235	0.0000
3.9670	0.0035	0.0077	0.0016	0.0242	0.0000
4.0000	0.0035	0.0078	0.0018	0.0247	0.0000

Surface DMA 2R

Element Flows To:

Outlet 1	Outlet 2
Tank 1	DMA 2R

Bioretention 16S

Bottom Length:	22.99 ft.
Bottom Width:	22.99 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.279
Total Volume Through Riser (ac-ft.):	0.006
Total Volume Through Facility (ac-ft.):	3.116
Percent Infiltrated:	8.95
Total Precip Applied to Facility:	0.624
Total Evap From Facility:	0.382
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.5
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.831
Total Outflow (ac-ft.):	3.116
Percent Through Underdrain:	90.85
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0121	0.0000	0.0000	0.0000
0.0440	0.0121	0.0002	0.0000	0.0000
0.0879	0.0121	0.0004	0.0000	0.0000
0.1319	0.0121	0.0006	0.0000	0.0000
0.1758	0.0121	0.0009	0.0000	0.0000
0.2198	0.0121	0.0011	0.0000	0.0000
0.2637	0.0121	0.0013	0.0000	0.0000
0.3077	0.0121	0.0015	0.0000	0.0000
0.3516	0.0121	0.0017	0.0000	0.0000
0.3956	0.0121	0.0019	0.0000	0.0000
0.4396	0.0121	0.0021	0.0000	0.0000
0.4835	0.0121	0.0024	0.0000	0.0000
0.5275	0.0121	0.0026	0.0001	0.0001
0.5714	0.0121	0.0028	0.0001	0.0001
0.6154	0.0121	0.0030	0.0002	0.0002
0.6593	0.0121	0.0033	0.0002	0.0002
0.7033	0.0121	0.0035	0.0002	0.0002
0.7473	0.0121	0.0037	0.0002	0.0002
0.7912	0.0121	0.0039	0.0002	0.0002
0.8352	0.0121	0.0042	0.0002	0.0002
0.8791	0.0121	0.0044	0.0002	0.0002
0.9231	0.0121	0.0046	0.0002	0.0002

0.9670	0.0121	0.0048	0.0002	0.0002
1.0110	0.0121	0.0050	0.0002	0.0002
1.0549	0.0121	0.0053	0.0002	0.0002
1.0989	0.0121	0.0055	0.0002	0.0002
1.1429	0.0121	0.0057	0.0002	0.0002
1.1868	0.0121	0.0059	0.0002	0.0002
1.2308	0.0121	0.0062	0.0002	0.0002
1.2747	0.0121	0.0064	0.0002	0.0002
1.3187	0.0121	0.0066	0.0002	0.0002
1.3626	0.0121	0.0068	0.0002	0.0002
1.4066	0.0121	0.0071	0.0002	0.0002
1.4505	0.0121	0.0073	0.0002	0.0002
1.4945	0.0121	0.0075	0.0002	0.0002
1.5385	0.0121	0.0077	0.0002	0.0002
1.5824	0.0121	0.0080	0.0002	0.0002
1.6264	0.0121	0.0082	0.0002	0.0002
1.6703	0.0121	0.0084	0.0002	0.0002
1.7143	0.0121	0.0086	0.0002	0.0002
1.7582	0.0121	0.0089	0.0002	0.0002
1.8022	0.0121	0.0091	0.0002	0.0002
1.8462	0.0121	0.0093	0.0002	0.0002
1.8901	0.0121	0.0095	0.0002	0.0002
1.9341	0.0121	0.0098	0.0002	0.0002
1.9780	0.0121	0.0100	0.0002	0.0002
2.0220	0.0121	0.0102	0.0002	0.0002
2.0659	0.0121	0.0104	0.0002	0.0002
2.1099	0.0121	0.0106	0.0002	0.0002
2.1538	0.0121	0.0109	0.0002	0.0002
2.1978	0.0121	0.0111	0.0002	0.0002
2.2418	0.0121	0.0113	0.0002	0.0002
2.2857	0.0121	0.0115	0.0002	0.0002
2.3297	0.0121	0.0117	0.0002	0.0002
2.3736	0.0121	0.0120	0.0002	0.0002
2.4176	0.0121	0.0122	0.0002	0.0002
2.4615	0.0121	0.0124	0.0002	0.0002
2.5055	0.0121	0.0126	0.0002	0.0002
2.5495	0.0121	0.0129	0.0002	0.0002
2.5934	0.0121	0.0131	0.0002	0.0002
2.6374	0.0121	0.0133	0.0002	0.0002
2.6813	0.0121	0.0135	0.0002	0.0002
2.7253	0.0121	0.0137	0.0002	0.0002
2.7692	0.0121	0.0140	0.0002	0.0002
2.8132	0.0121	0.0142	0.0002	0.0002
2.8571	0.0121	0.0144	0.0002	0.0002
2.9011	0.0121	0.0146	0.0002	0.0002
2.9451	0.0121	0.0148	0.0002	0.0002
2.9890	0.0121	0.0151	0.0002	0.0002
3.0000	0.0121	0.0151	0.0002	0.0002

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0121	0.0151	0.0000	0.0288	0.0000
3.0440	0.0121	0.0157	0.0000	0.0288	0.0000
3.0879	0.0121	0.0162	0.0000	0.0339	0.0000
3.1319	0.0121	0.0167	0.0000	0.0364	0.0000
3.1758	0.0121	0.0173	0.0000	0.0389	0.0000
3.2198	0.0121	0.0178	0.0000	0.0415	0.0000
3.2637	0.0121	0.0183	0.0000	0.0440	0.0000

3.3077	0.0121	0.0189	0.0000	0.0465	0.0000
3.3516	0.0121	0.0194	0.0000	0.0491	0.0000
3.3956	0.0121	0.0199	0.0000	0.0516	0.0000
3.4396	0.0121	0.0205	0.0000	0.0541	0.0000
3.4835	0.0121	0.0210	0.0000	0.0567	0.0000
3.5275	0.0121	0.0215	0.0008	0.0592	0.0000
3.5714	0.0121	0.0221	0.0011	0.0617	0.0000
3.6154	0.0121	0.0226	0.0011	0.0643	0.0000
3.6593	0.0121	0.0231	0.0011	0.0668	0.0000
3.7033	0.0121	0.0237	0.0013	0.0693	0.0000
3.7473	0.0121	0.0242	0.0014	0.0719	0.0000
3.7912	0.0121	0.0247	0.0015	0.0744	0.0000
3.8352	0.0121	0.0253	0.0016	0.0769	0.0000
3.8791	0.0121	0.0258	0.0018	0.0795	0.0000
3.9231	0.0121	0.0263	0.0019	0.0820	0.0000
3.9670	0.0121	0.0269	0.0020	0.0845	0.0000
4.0000	0.0121	0.0273	0.0021	0.0864	0.0000

Surface tention 16S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 16S

Tank 1

Dimensions
Depth: 2 ft.
Tank Type: Circular
Diameter: 2 ft.
Length: 200 ft.
Discharge Structure
Riser Height: 1 ft.
Riser Diameter: 12 in.
Orifice 1 Diameter: 0.311 in. Elevation:0 ft.
Element Flows To:
Outlet 1 Outlet 2

Tank Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.000000	0.000000	0.000	0.000
0.0222	0.001925	0.000029	0.000	0.000
0.0444	0.002707	0.000081	0.000	0.000
0.0667	0.003297	0.000148	0.000	0.000
0.0889	0.003785	0.000226	0.000	0.000
0.1111	0.004207	0.000315	0.000	0.000
0.1333	0.004581	0.000413	0.001	0.000
0.1556	0.004919	0.000519	0.001	0.000
0.1778	0.005227	0.000631	0.001	0.000
0.2000	0.005510	0.000751	0.001	0.000
0.2222	0.005772	0.000876	0.001	0.000
0.2444	0.006015	0.001007	0.001	0.000
0.2667	0.006243	0.001143	0.001	0.000
0.2889	0.006456	0.001284	0.001	0.000
0.3111	0.006656	0.001430	0.001	0.000
0.3333	0.006844	0.001580	0.001	0.000
0.3556	0.007022	0.001734	0.001	0.000
0.3778	0.007189	0.001892	0.001	0.000
0.4000	0.007346	0.002054	0.001	0.000
0.4222	0.007495	0.002219	0.001	0.000
0.4444	0.007635	0.002387	0.001	0.000
0.4667	0.007768	0.002558	0.001	0.000
0.4889	0.007893	0.002732	0.001	0.000
0.5111	0.008011	0.002909	0.001	0.000
0.5333	0.008122	0.003088	0.001	0.000
0.5556	0.008226	0.003270	0.002	0.000
0.5778	0.008324	0.003453	0.002	0.000
0.6000	0.008416	0.003639	0.002	0.000
0.6222	0.008502	0.003827	0.002	0.000
0.6444	0.008583	0.004017	0.002	0.000
0.6667	0.008658	0.004209	0.002	0.000
0.6889	0.008727	0.004402	0.002	0.000
0.7111	0.008791	0.004597	0.002	0.000
0.7333	0.008850	0.004793	0.002	0.000
0.7556	0.008904	0.004990	0.002	0.000
0.7778	0.008953	0.005188	0.002	0.000
0.8000	0.008997	0.005388	0.002	0.000
0.8222	0.009036	0.005588	0.002	0.000
0.8444	0.009071	0.005789	0.002	0.000
0.8667	0.009101	0.005991	0.002	0.000

0.8889	0.009126	0.006194	0.002	0.000
0.9111	0.009146	0.006397	0.002	0.000
0.9333	0.009162	0.006600	0.002	0.000
0.9556	0.009174	0.006804	0.002	0.000
0.9778	0.009180	0.007008	0.002	0.000
1.0000	0.009183	0.007212	0.002	0.000
1.0222	0.009180	0.007416	0.037	0.000
1.0444	0.009174	0.007620	0.102	0.000
1.0667	0.009162	0.007824	0.184	0.000
1.0889	0.009146	0.008027	0.282	0.000
1.1111	0.009126	0.008230	0.392	0.000
1.1333	0.009101	0.008433	0.512	0.000
1.1556	0.009071	0.008635	0.640	0.000
1.1778	0.009036	0.008836	0.773	0.000
1.2000	0.008997	0.009036	0.910	0.000
1.2222	0.008953	0.009236	1.048	0.000
1.2444	0.008904	0.009434	1.186	0.000
1.2667	0.008850	0.009631	1.321	0.000
1.2889	0.008791	0.009828	1.450	0.000
1.3111	0.008727	0.010022	1.572	0.000
1.3333	0.008658	0.010215	1.686	0.000
1.3556	0.008583	0.010407	1.790	0.000
1.3778	0.008502	0.010597	1.882	0.000
1.4000	0.008416	0.010785	1.963	0.000
1.4222	0.008324	0.010971	2.032	0.000
1.4444	0.008226	0.011155	2.091	0.000
1.4667	0.008122	0.011336	2.141	0.000
1.4889	0.008011	0.011516	2.185	0.000
1.5111	0.007893	0.011692	2.255	0.000
1.5333	0.007768	0.011866	2.303	0.000
1.5556	0.007635	0.012037	2.350	0.000
1.5778	0.007495	0.012206	2.397	0.000
1.6000	0.007346	0.012371	2.443	0.000
1.6222	0.007189	0.012532	2.487	0.000
1.6444	0.007022	0.012690	2.531	0.000
1.6667	0.006844	0.012844	2.575	0.000
1.6889	0.006656	0.012994	2.617	0.000
1.7111	0.006456	0.013140	2.659	0.000
1.7333	0.006243	0.013281	2.700	0.000
1.7556	0.006015	0.013417	2.741	0.000
1.7778	0.005772	0.013548	2.781	0.000
1.8000	0.005510	0.013674	2.820	0.000
1.8222	0.005227	0.013793	2.859	0.000
1.8444	0.004919	0.013906	2.897	0.000
1.8667	0.004581	0.014011	2.935	0.000
1.8889	0.004207	0.014109	2.973	0.000
1.9111	0.003785	0.014198	3.010	0.000
1.9333	0.003297	0.014277	3.046	0.000
1.9556	0.002707	0.014344	3.082	0.000
1.9778	0.001925	0.014396	3.118	0.000
2.0000	0.000000	0.014424	3.153	0.000
2.0222	0.000000	0.000000	3.188	0.000

Bioretention 6R

Bottom Length:	26.72 ft.
Bottom Width:	26.72 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.629
Total Volume Through Riser (ac-ft.):	0.067
Total Volume Through Facility (ac-ft.):	6.545
Percent Infiltrated:	9.61
Total Precip Applied to Facility:	0.767
Total Evap From Facility:	0.533
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.5
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	5.849
Total Outflow (ac-ft.):	6.545
Percent Through Underdrain:	89.37
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0164	0.0000	0.0000	0.0000
0.0440	0.0164	0.0003	0.0000	0.0000
0.0879	0.0164	0.0006	0.0000	0.0000
0.1319	0.0164	0.0009	0.0000	0.0000
0.1758	0.0164	0.0012	0.0000	0.0000
0.2198	0.0164	0.0014	0.0000	0.0000
0.2637	0.0164	0.0017	0.0000	0.0000
0.3077	0.0164	0.0020	0.0000	0.0000
0.3516	0.0164	0.0023	0.0000	0.0000
0.3956	0.0164	0.0026	0.0000	0.0000
0.4396	0.0164	0.0029	0.0000	0.0000
0.4835	0.0164	0.0032	0.0000	0.0000
0.5275	0.0164	0.0035	0.0002	0.0002
0.5714	0.0164	0.0038	0.0002	0.0002
0.6154	0.0164	0.0041	0.0002	0.0002
0.6593	0.0164	0.0044	0.0002	0.0002
0.7033	0.0164	0.0047	0.0002	0.0002
0.7473	0.0164	0.0050	0.0002	0.0002
0.7912	0.0164	0.0053	0.0002	0.0002
0.8352	0.0164	0.0056	0.0002	0.0002
0.8791	0.0164	0.0059	0.0002	0.0002
0.9231	0.0164	0.0062	0.0002	0.0002

0.9670	0.0164	0.0065	0.0002	0.0002
1.0110	0.0164	0.0068	0.0002	0.0002
1.0549	0.0164	0.0071	0.0002	0.0002
1.0989	0.0164	0.0074	0.0002	0.0002
1.1429	0.0164	0.0077	0.0002	0.0002
1.1868	0.0164	0.0080	0.0002	0.0002
1.2308	0.0164	0.0083	0.0002	0.0002
1.2747	0.0164	0.0086	0.0002	0.0002
1.3187	0.0164	0.0089	0.0002	0.0002
1.3626	0.0164	0.0092	0.0002	0.0002
1.4066	0.0164	0.0095	0.0002	0.0002
1.4505	0.0164	0.0098	0.0002	0.0002
1.4945	0.0164	0.0101	0.0002	0.0002
1.5385	0.0164	0.0104	0.0002	0.0002
1.5824	0.0164	0.0108	0.0002	0.0002
1.6264	0.0164	0.0111	0.0002	0.0002
1.6703	0.0164	0.0114	0.0002	0.0002
1.7143	0.0164	0.0117	0.0002	0.0002
1.7582	0.0164	0.0120	0.0002	0.0002
1.8022	0.0164	0.0123	0.0002	0.0002
1.8462	0.0164	0.0126	0.0002	0.0002
1.8901	0.0164	0.0129	0.0002	0.0002
1.9341	0.0164	0.0132	0.0002	0.0002
1.9780	0.0164	0.0135	0.0002	0.0002
2.0220	0.0164	0.0138	0.0002	0.0002
2.0659	0.0164	0.0141	0.0002	0.0002
2.1099	0.0164	0.0144	0.0002	0.0002
2.1538	0.0164	0.0147	0.0002	0.0002
2.1978	0.0164	0.0150	0.0002	0.0002
2.2418	0.0164	0.0153	0.0002	0.0002
2.2857	0.0164	0.0156	0.0002	0.0002
2.3297	0.0164	0.0159	0.0002	0.0002
2.3736	0.0164	0.0162	0.0002	0.0002
2.4176	0.0164	0.0165	0.0002	0.0002
2.4615	0.0164	0.0168	0.0002	0.0002
2.5055	0.0164	0.0171	0.0002	0.0002
2.5495	0.0164	0.0174	0.0002	0.0002
2.5934	0.0164	0.0177	0.0002	0.0002
2.6374	0.0164	0.0180	0.0002	0.0002
2.6813	0.0164	0.0183	0.0002	0.0002
2.7253	0.0164	0.0186	0.0002	0.0002
2.7692	0.0164	0.0189	0.0002	0.0002
2.8132	0.0164	0.0192	0.0002	0.0002
2.8571	0.0164	0.0195	0.0002	0.0002
2.9011	0.0164	0.0198	0.0002	0.0002
2.9451	0.0164	0.0201	0.0002	0.0002
2.9890	0.0164	0.0204	0.0002	0.0002
3.0000	0.0164	0.0204	0.0002	0.0002

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0164	0.0204	0.0000	0.0389	0.0000
3.0440	0.0164	0.0211	0.0000	0.0389	0.0000
3.0879	0.0164	0.0219	0.0000	0.0458	0.0000
3.1319	0.0164	0.0226	0.0000	0.0492	0.0000
3.1758	0.0164	0.0233	0.0000	0.0526	0.0000
3.2198	0.0164	0.0240	0.0000	0.0560	0.0000
3.2637	0.0164	0.0247	0.0000	0.0594	0.0000

3.3077	0.0164	0.0255	0.0000	0.0629	0.0000
3.3516	0.0164	0.0262	0.0000	0.0663	0.0000
3.3956	0.0164	0.0269	0.0000	0.0697	0.0000
3.4396	0.0164	0.0276	0.0000	0.0731	0.0000
3.4835	0.0164	0.0284	0.0000	0.0765	0.0000
3.5275	0.0164	0.0291	0.0010	0.0800	0.0000
3.5714	0.0164	0.0298	0.0010	0.0834	0.0000
3.6154	0.0164	0.0305	0.0010	0.0868	0.0000
3.6593	0.0164	0.0312	0.0012	0.0902	0.0000
3.7033	0.0164	0.0320	0.0013	0.0936	0.0000
3.7473	0.0164	0.0327	0.0014	0.0971	0.0000
3.7912	0.0164	0.0334	0.0015	0.1005	0.0000
3.8352	0.0164	0.0341	0.0017	0.1039	0.0000
3.8791	0.0164	0.0348	0.0018	0.1073	0.0000
3.9231	0.0164	0.0356	0.0019	0.1107	0.0000
3.9670	0.0164	0.0363	0.0020	0.1142	0.0000
4.0000	0.0164	0.0368	0.0021	0.1167	0.0000

Surface etention 6R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 6R

Bioretention 17SF

Bottom Length:	19.80 ft.
Bottom Width:	19.80 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.524
Total Volume Through Riser (ac-ft.):	0.038
Total Volume Through Facility (ac-ft.):	2.825
Percent Infiltrated:	18.55
Total Precip Applied to Facility:	0.453
Total Evap From Facility:	0.283
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.25
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.263
Total Outflow (ac-ft.):	2.825
Percent Through Underdrain:	80.11
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	12 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0090	0.0000	0.0000	0.0000
0.0440	0.0090	0.0002	0.0000	0.0000
0.0879	0.0090	0.0003	0.0000	0.0000
0.1319	0.0090	0.0005	0.0000	0.0000
0.1758	0.0090	0.0006	0.0000	0.0000
0.2198	0.0090	0.0008	0.0000	0.0000
0.2637	0.0090	0.0010	0.0000	0.0000
0.3077	0.0090	0.0011	0.0000	0.0000
0.3516	0.0090	0.0013	0.0000	0.0000
0.3956	0.0090	0.0014	0.0000	0.0000
0.4396	0.0090	0.0016	0.0000	0.0000
0.4835	0.0090	0.0017	0.0001	0.0001
0.5275	0.0090	0.0019	0.0001	0.0001
0.5714	0.0090	0.0021	0.0001	0.0001
0.6154	0.0090	0.0022	0.0001	0.0001
0.6593	0.0090	0.0024	0.0001	0.0001
0.7033	0.0090	0.0026	0.0001	0.0001
0.7473	0.0090	0.0027	0.0001	0.0001
0.7912	0.0090	0.0029	0.0001	0.0001
0.8352	0.0090	0.0031	0.0001	0.0001
0.8791	0.0090	0.0032	0.0001	0.0001
0.9231	0.0090	0.0034	0.0001	0.0001

0.9670	0.0090	0.0036	0.0001	0.0001
1.0110	0.0090	0.0037	0.0001	0.0001
1.0549	0.0090	0.0039	0.0001	0.0001
1.0989	0.0090	0.0041	0.0001	0.0001
1.1429	0.0090	0.0042	0.0001	0.0001
1.1868	0.0090	0.0044	0.0001	0.0001
1.2308	0.0090	0.0046	0.0001	0.0001
1.2747	0.0090	0.0047	0.0001	0.0001
1.3187	0.0090	0.0049	0.0001	0.0001
1.3626	0.0090	0.0051	0.0001	0.0001
1.4066	0.0090	0.0052	0.0001	0.0001
1.4505	0.0090	0.0054	0.0001	0.0001
1.4945	0.0090	0.0056	0.0001	0.0001
1.5385	0.0090	0.0057	0.0001	0.0001
1.5824	0.0090	0.0059	0.0001	0.0001
1.6264	0.0090	0.0061	0.0001	0.0001
1.6703	0.0090	0.0062	0.0001	0.0001
1.7143	0.0090	0.0064	0.0001	0.0001
1.7582	0.0090	0.0066	0.0001	0.0001
1.8022	0.0090	0.0067	0.0001	0.0001
1.8462	0.0090	0.0069	0.0001	0.0001
1.8901	0.0090	0.0070	0.0001	0.0001
1.9341	0.0090	0.0072	0.0001	0.0001
1.9780	0.0090	0.0074	0.0001	0.0001
2.0220	0.0090	0.0075	0.0001	0.0001
2.0659	0.0090	0.0077	0.0001	0.0001
2.1099	0.0090	0.0079	0.0001	0.0001
2.1538	0.0090	0.0080	0.0001	0.0001
2.1978	0.0090	0.0082	0.0001	0.0001
2.2418	0.0090	0.0084	0.0001	0.0001
2.2857	0.0090	0.0085	0.0001	0.0001
2.3297	0.0090	0.0087	0.0001	0.0001
2.3736	0.0090	0.0089	0.0001	0.0001
2.4176	0.0090	0.0090	0.0001	0.0001
2.4615	0.0090	0.0092	0.0001	0.0001
2.5055	0.0090	0.0093	0.0001	0.0001
2.5495	0.0090	0.0095	0.0001	0.0001
2.5934	0.0090	0.0097	0.0001	0.0001
2.6374	0.0090	0.0098	0.0001	0.0001
2.6813	0.0090	0.0100	0.0001	0.0001
2.7253	0.0090	0.0102	0.0001	0.0001
2.7692	0.0090	0.0103	0.0001	0.0001
2.8132	0.0090	0.0105	0.0001	0.0001
2.8571	0.0090	0.0107	0.0001	0.0001
2.9011	0.0090	0.0108	0.0001	0.0001
2.9451	0.0090	0.0110	0.0001	0.0001
2.9890	0.0090	0.0112	0.0001	0.0001
3.0000	0.0090	0.0112	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0090	0.0112	0.0000	0.0214	0.0000
3.0440	0.0090	0.0116	0.0000	0.0214	0.0000
3.0879	0.0090	0.0120	0.0000	0.0251	0.0000
3.1319	0.0090	0.0124	0.0000	0.0270	0.0000
3.1758	0.0090	0.0128	0.0000	0.0289	0.0000
3.2198	0.0090	0.0132	0.0000	0.0308	0.0000
3.2637	0.0090	0.0136	0.0000	0.0326	0.0000

3.3077	0.0090	0.0140	0.0000	0.0345	0.0000
3.3516	0.0090	0.0144	0.0000	0.0364	0.0000
3.3956	0.0090	0.0148	0.0000	0.0383	0.0000
3.4396	0.0090	0.0151	0.0000	0.0401	0.0000
3.4835	0.0090	0.0155	0.0001	0.0420	0.0000
3.5275	0.0090	0.0159	0.0001	0.0439	0.0000
3.5714	0.0090	0.0163	0.0002	0.0458	0.0000
3.6154	0.0090	0.0167	0.0002	0.0477	0.0000
3.6593	0.0090	0.0171	0.0003	0.0495	0.0000
3.7033	0.0090	0.0175	0.0003	0.0514	0.0000
3.7473	0.0090	0.0179	0.0003	0.0533	0.0000
3.7912	0.0090	0.0183	0.0003	0.0552	0.0000
3.8352	0.0090	0.0187	0.0004	0.0571	0.0000
3.8791	0.0090	0.0191	0.0004	0.0589	0.0000
3.9231	0.0090	0.0195	0.0004	0.0608	0.0000
3.9670	0.0090	0.0199	0.0004	0.0627	0.0000
4.0000	0.0090	0.0202	0.0005	0.0641	0.0000

Surface ention 17SF

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 17SF

Bioretention DMA4R

Bottom Length:	15.46 ft.
Bottom Width:	15.46 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.37
Total Volume Through Riser (ac-ft.):	2.51
Total Volume Through Facility (ac-ft.):	9.11
Percent Infiltrated:	4.06
Total Precip Applied to Facility:	0.258
Total Evap From Facility:	0.199
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	6.23
Total Outflow (ac-ft.):	9.11
Percent Through Underdrain:	68.39
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2
Tank 1	

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0055	0.0000	0.0000	0.0000
0.0440	0.0055	0.0001	0.0000	0.0000
0.0879	0.0055	0.0002	0.0000	0.0000
0.1319	0.0055	0.0003	0.0000	0.0000
0.1758	0.0055	0.0004	0.0000	0.0000
0.2198	0.0055	0.0005	0.0000	0.0000
0.2637	0.0055	0.0006	0.0000	0.0000
0.3077	0.0055	0.0007	0.0000	0.0000
0.3516	0.0055	0.0008	0.0000	0.0000
0.3956	0.0055	0.0009	0.0000	0.0000
0.4396	0.0055	0.0010	0.0000	0.0000
0.4835	0.0055	0.0011	0.0000	0.0000
0.5275	0.0055	0.0012	0.0001	0.0001
0.5714	0.0055	0.0013	0.0001	0.0001
0.6154	0.0055	0.0014	0.0001	0.0001
0.6593	0.0055	0.0015	0.0001	0.0001
0.7033	0.0055	0.0016	0.0001	0.0001
0.7473	0.0055	0.0017	0.0001	0.0001
0.7912	0.0055	0.0018	0.0001	0.0001
0.8352	0.0055	0.0019	0.0001	0.0001
0.8791	0.0055	0.0020	0.0001	0.0001
0.9231	0.0055	0.0021	0.0001	0.0001

0.9670	0.0055	0.0022	0.0001	0.0001
1.0110	0.0055	0.0023	0.0001	0.0001
1.0549	0.0055	0.0024	0.0001	0.0001
1.0989	0.0055	0.0025	0.0001	0.0001
1.1429	0.0055	0.0026	0.0001	0.0001
1.1868	0.0055	0.0027	0.0001	0.0001
1.2308	0.0055	0.0028	0.0001	0.0001
1.2747	0.0055	0.0029	0.0001	0.0001
1.3187	0.0055	0.0030	0.0001	0.0001
1.3626	0.0055	0.0031	0.0001	0.0001
1.4066	0.0055	0.0032	0.0001	0.0001
1.4505	0.0055	0.0033	0.0001	0.0001
1.4945	0.0055	0.0034	0.0001	0.0001
1.5385	0.0055	0.0035	0.0001	0.0001
1.5824	0.0055	0.0036	0.0001	0.0001
1.6264	0.0055	0.0037	0.0001	0.0001
1.6703	0.0055	0.0038	0.0001	0.0001
1.7143	0.0055	0.0039	0.0001	0.0001
1.7582	0.0055	0.0040	0.0001	0.0001
1.8022	0.0055	0.0041	0.0001	0.0001
1.8462	0.0055	0.0042	0.0001	0.0001
1.8901	0.0055	0.0043	0.0001	0.0001
1.9341	0.0055	0.0044	0.0001	0.0001
1.9780	0.0055	0.0045	0.0001	0.0001
2.0220	0.0055	0.0046	0.0001	0.0001
2.0659	0.0055	0.0047	0.0001	0.0001
2.1099	0.0055	0.0048	0.0001	0.0001
2.1538	0.0055	0.0049	0.0001	0.0001
2.1978	0.0055	0.0050	0.0001	0.0001
2.2418	0.0055	0.0051	0.0001	0.0001
2.2857	0.0055	0.0052	0.0001	0.0001
2.3297	0.0055	0.0053	0.0001	0.0001
2.3736	0.0055	0.0054	0.0001	0.0001
2.4176	0.0055	0.0055	0.0001	0.0001
2.4615	0.0055	0.0056	0.0001	0.0001
2.5055	0.0055	0.0057	0.0001	0.0001
2.5495	0.0055	0.0058	0.0001	0.0001
2.5934	0.0055	0.0059	0.0001	0.0001
2.6374	0.0055	0.0060	0.0001	0.0001
2.6813	0.0055	0.0061	0.0001	0.0001
2.7253	0.0055	0.0062	0.0001	0.0001
2.7692	0.0055	0.0063	0.0001	0.0001
2.8132	0.0055	0.0064	0.0001	0.0001
2.8571	0.0055	0.0065	0.0001	0.0001
2.9011	0.0055	0.0066	0.0001	0.0001
2.9451	0.0055	0.0067	0.0001	0.0001
2.9890	0.0055	0.0068	0.0001	0.0001
3.0000	0.0055	0.0068	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0055	0.0068	0.0000	0.0130	0.0000
3.0440	0.0055	0.0071	0.0000	0.0130	0.0000
3.0879	0.0055	0.0073	0.0000	0.0153	0.0000
3.1319	0.0055	0.0076	0.0000	0.0165	0.0000
3.1758	0.0055	0.0078	0.0000	0.0176	0.0000
3.2198	0.0055	0.0080	0.0000	0.0188	0.0000
3.2637	0.0055	0.0083	0.0000	0.0199	0.0000

3.3077	0.0055	0.0085	0.0000	0.0210	0.0000
3.3516	0.0055	0.0088	0.0000	0.0222	0.0000
3.3956	0.0055	0.0090	0.0000	0.0233	0.0000
3.4396	0.0055	0.0092	0.0000	0.0245	0.0000
3.4835	0.0055	0.0095	0.0000	0.0256	0.0000
3.5275	0.0055	0.0097	0.0003	0.0268	0.0000
3.5714	0.0055	0.0100	0.0004	0.0279	0.0000
3.6154	0.0055	0.0102	0.0004	0.0291	0.0000
3.6593	0.0055	0.0105	0.0004	0.0302	0.0000
3.7033	0.0055	0.0107	0.0005	0.0313	0.0000
3.7473	0.0055	0.0109	0.0005	0.0325	0.0000
3.7912	0.0055	0.0112	0.0006	0.0336	0.0000
3.8352	0.0055	0.0114	0.0006	0.0348	0.0000
3.8791	0.0055	0.0117	0.0006	0.0359	0.0000
3.9231	0.0055	0.0119	0.0007	0.0371	0.0000
3.9670	0.0055	0.0121	0.0007	0.0382	0.0000
4.0000	0.0055	0.0123	0.0008	0.0391	0.0000

Surface ntion DMA4R

Element Flows To:

Outlet 1	Outlet 2
Tank 1	Bioretention DMA4R

Bioretention 5R

Bottom Length:	19.92 ft.
Bottom Width:	19.92 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.425
Total Volume Through Riser (ac-ft.):	0.022
Total Volume Through Facility (ac-ft.):	2.817
Percent Infiltrated:	15.09
Total Precip Applied to Facility:	0.425
Total Evap From Facility:	0.29
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.37
Total Outflow (ac-ft.):	2.817
Percent Through Underdrain:	84.13
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0091	0.0000	0.0000	0.0000
0.0440	0.0091	0.0002	0.0000	0.0000
0.0879	0.0091	0.0003	0.0000	0.0000
0.1319	0.0091	0.0005	0.0000	0.0000
0.1758	0.0091	0.0006	0.0000	0.0000
0.2198	0.0091	0.0008	0.0000	0.0000
0.2637	0.0091	0.0010	0.0000	0.0000
0.3077	0.0091	0.0011	0.0000	0.0000
0.3516	0.0091	0.0013	0.0000	0.0000
0.3956	0.0091	0.0014	0.0000	0.0000
0.4396	0.0091	0.0016	0.0000	0.0000
0.4835	0.0091	0.0018	0.0000	0.0000
0.5275	0.0091	0.0019	0.0001	0.0001
0.5714	0.0091	0.0021	0.0001	0.0001
0.6154	0.0091	0.0023	0.0001	0.0001
0.6593	0.0091	0.0024	0.0001	0.0001
0.7033	0.0091	0.0026	0.0001	0.0001
0.7473	0.0091	0.0028	0.0001	0.0001
0.7912	0.0091	0.0029	0.0001	0.0001
0.8352	0.0091	0.0031	0.0001	0.0001
0.8791	0.0091	0.0033	0.0001	0.0001
0.9231	0.0091	0.0035	0.0001	0.0001

0.9670	0.0091	0.0036	0.0001	0.0001
1.0110	0.0091	0.0038	0.0001	0.0001
1.0549	0.0091	0.0040	0.0001	0.0001
1.0989	0.0091	0.0041	0.0001	0.0001
1.1429	0.0091	0.0043	0.0001	0.0001
1.1868	0.0091	0.0045	0.0001	0.0001
1.2308	0.0091	0.0046	0.0001	0.0001
1.2747	0.0091	0.0048	0.0001	0.0001
1.3187	0.0091	0.0050	0.0001	0.0001
1.3626	0.0091	0.0051	0.0001	0.0001
1.4066	0.0091	0.0053	0.0001	0.0001
1.4505	0.0091	0.0055	0.0001	0.0001
1.4945	0.0091	0.0056	0.0001	0.0001
1.5385	0.0091	0.0058	0.0001	0.0001
1.5824	0.0091	0.0060	0.0001	0.0001
1.6264	0.0091	0.0061	0.0001	0.0001
1.6703	0.0091	0.0063	0.0001	0.0001
1.7143	0.0091	0.0065	0.0001	0.0001
1.7582	0.0091	0.0066	0.0001	0.0001
1.8022	0.0091	0.0068	0.0001	0.0001
1.8462	0.0091	0.0070	0.0001	0.0001
1.8901	0.0091	0.0072	0.0001	0.0001
1.9341	0.0091	0.0073	0.0001	0.0001
1.9780	0.0091	0.0075	0.0001	0.0001
2.0220	0.0091	0.0077	0.0001	0.0001
2.0659	0.0091	0.0078	0.0001	0.0001
2.1099	0.0091	0.0080	0.0001	0.0001
2.1538	0.0091	0.0082	0.0001	0.0001
2.1978	0.0091	0.0083	0.0001	0.0001
2.2418	0.0091	0.0085	0.0001	0.0001
2.2857	0.0091	0.0087	0.0001	0.0001
2.3297	0.0091	0.0088	0.0001	0.0001
2.3736	0.0091	0.0090	0.0001	0.0001
2.4176	0.0091	0.0092	0.0001	0.0001
2.4615	0.0091	0.0093	0.0001	0.0001
2.5055	0.0091	0.0095	0.0001	0.0001
2.5495	0.0091	0.0096	0.0001	0.0001
2.5934	0.0091	0.0098	0.0001	0.0001
2.6374	0.0091	0.0100	0.0001	0.0001
2.6813	0.0091	0.0101	0.0001	0.0001
2.7253	0.0091	0.0103	0.0001	0.0001
2.7692	0.0091	0.0105	0.0001	0.0001
2.8132	0.0091	0.0106	0.0001	0.0001
2.8571	0.0091	0.0108	0.0001	0.0001
2.9011	0.0091	0.0110	0.0001	0.0001
2.9451	0.0091	0.0111	0.0001	0.0001
2.9890	0.0091	0.0113	0.0001	0.0001
3.0000	0.0091	0.0114	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0091	0.0114	0.0000	0.0216	0.0000
3.0440	0.0091	0.0118	0.0000	0.0216	0.0000
3.0879	0.0091	0.0122	0.0000	0.0254	0.0000
3.1319	0.0091	0.0126	0.0000	0.0273	0.0000
3.1758	0.0091	0.0130	0.0000	0.0292	0.0000
3.2198	0.0091	0.0134	0.0000	0.0311	0.0000
3.2637	0.0091	0.0138	0.0000	0.0330	0.0000

3.3077	0.0091	0.0142	0.0000	0.0349	0.0000
3.3516	0.0091	0.0146	0.0000	0.0368	0.0000
3.3956	0.0091	0.0150	0.0000	0.0387	0.0000
3.4396	0.0091	0.0154	0.0000	0.0406	0.0000
3.4835	0.0091	0.0158	0.0000	0.0425	0.0000
3.5275	0.0091	0.0162	0.0002	0.0444	0.0000
3.5714	0.0091	0.0166	0.0002	0.0463	0.0000
3.6154	0.0091	0.0170	0.0003	0.0482	0.0000
3.6593	0.0091	0.0174	0.0004	0.0501	0.0000
3.7033	0.0091	0.0178	0.0004	0.0520	0.0000
3.7473	0.0091	0.0182	0.0005	0.0539	0.0000
3.7912	0.0091	0.0186	0.0005	0.0558	0.0000
3.8352	0.0091	0.0190	0.0006	0.0577	0.0000
3.8791	0.0091	0.0194	0.0006	0.0596	0.0000
3.9231	0.0091	0.0198	0.0006	0.0615	0.0000
3.9670	0.0091	0.0202	0.0007	0.0635	0.0000
4.0000	0.0091	0.0205	0.0007	0.0649	0.0000

Surface etention 5R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 5R

Bioretention 7R

Bottom Length:	10.00 ft.
Bottom Width:	10.00 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.119
Total Volume Through Riser (ac-ft.):	0.005
Total Volume Through Facility (ac-ft.):	0.628
Percent Infiltrated:	18.95
Total Precip Applied to Facility:	0.107
Total Evap From Facility:	0.072
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.13
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	0.504
Total Outflow (ac-ft.):	0.628
Percent Through Underdrain:	80.25
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0023	0.0000	0.0000	0.0000
0.0440	0.0023	0.0000	0.0000	0.0000
0.0879	0.0023	0.0001	0.0000	0.0000
0.1319	0.0023	0.0001	0.0000	0.0000
0.1758	0.0023	0.0002	0.0000	0.0000
0.2198	0.0023	0.0002	0.0000	0.0000
0.2637	0.0023	0.0002	0.0000	0.0000
0.3077	0.0023	0.0003	0.0000	0.0000
0.3516	0.0023	0.0003	0.0000	0.0000
0.3956	0.0023	0.0004	0.0000	0.0000
0.4396	0.0023	0.0004	0.0000	0.0000
0.4835	0.0023	0.0004	0.0000	0.0000
0.5275	0.0023	0.0005	0.0000	0.0000
0.5714	0.0023	0.0005	0.0000	0.0000
0.6154	0.0023	0.0006	0.0000	0.0000
0.6593	0.0023	0.0006	0.0000	0.0000
0.7033	0.0023	0.0007	0.0000	0.0000
0.7473	0.0023	0.0007	0.0000	0.0000
0.7912	0.0023	0.0007	0.0000	0.0000
0.8352	0.0023	0.0008	0.0000	0.0000
0.8791	0.0023	0.0008	0.0000	0.0000
0.9231	0.0023	0.0009	0.0000	0.0000

0.9670	0.0023	0.0009	0.0000	0.0000
1.0110	0.0023	0.0010	0.0000	0.0000
1.0549	0.0023	0.0010	0.0000	0.0000
1.0989	0.0023	0.0010	0.0000	0.0000
1.1429	0.0023	0.0011	0.0000	0.0000
1.1868	0.0023	0.0011	0.0000	0.0000
1.2308	0.0023	0.0012	0.0000	0.0000
1.2747	0.0023	0.0012	0.0000	0.0000
1.3187	0.0023	0.0013	0.0000	0.0000
1.3626	0.0023	0.0013	0.0000	0.0000
1.4066	0.0023	0.0013	0.0000	0.0000
1.4505	0.0023	0.0014	0.0000	0.0000
1.4945	0.0023	0.0014	0.0000	0.0000
1.5385	0.0023	0.0015	0.0000	0.0000
1.5824	0.0023	0.0015	0.0000	0.0000
1.6264	0.0023	0.0015	0.0000	0.0000
1.6703	0.0023	0.0016	0.0000	0.0000
1.7143	0.0023	0.0016	0.0000	0.0000
1.7582	0.0023	0.0017	0.0000	0.0000
1.8022	0.0023	0.0017	0.0000	0.0000
1.8462	0.0023	0.0018	0.0000	0.0000
1.8901	0.0023	0.0018	0.0000	0.0000
1.9341	0.0023	0.0018	0.0000	0.0000
1.9780	0.0023	0.0019	0.0000	0.0000
2.0220	0.0023	0.0019	0.0000	0.0000
2.0659	0.0023	0.0020	0.0000	0.0000
2.1099	0.0023	0.0020	0.0000	0.0000
2.1538	0.0023	0.0021	0.0000	0.0000
2.1978	0.0023	0.0021	0.0000	0.0000
2.2418	0.0023	0.0021	0.0000	0.0000
2.2857	0.0023	0.0022	0.0000	0.0000
2.3297	0.0023	0.0022	0.0000	0.0000
2.3736	0.0023	0.0023	0.0000	0.0000
2.4176	0.0023	0.0023	0.0000	0.0000
2.4615	0.0023	0.0023	0.0000	0.0000
2.5055	0.0023	0.0024	0.0000	0.0000
2.5495	0.0023	0.0024	0.0000	0.0000
2.5934	0.0023	0.0025	0.0000	0.0000
2.6374	0.0023	0.0025	0.0000	0.0000
2.6813	0.0023	0.0026	0.0000	0.0000
2.7253	0.0023	0.0026	0.0000	0.0000
2.7692	0.0023	0.0026	0.0000	0.0000
2.8132	0.0023	0.0027	0.0000	0.0000
2.8571	0.0023	0.0027	0.0000	0.0000
2.9011	0.0023	0.0028	0.0000	0.0000
2.9451	0.0023	0.0028	0.0000	0.0000
2.9890	0.0023	0.0029	0.0000	0.0000
3.0000	0.0023	0.0029	0.0000	0.0000

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0023	0.0029	0.0000	0.0054	0.0000
3.0440	0.0023	0.0030	0.0000	0.0054	0.0000
3.0879	0.0023	0.0031	0.0000	0.0064	0.0000
3.1319	0.0023	0.0032	0.0000	0.0069	0.0000
3.1758	0.0023	0.0033	0.0000	0.0074	0.0000
3.2198	0.0023	0.0034	0.0000	0.0078	0.0000
3.2637	0.0023	0.0035	0.0000	0.0083	0.0000

3.3077	0.0023	0.0036	0.0000	0.0088	0.0000
3.3516	0.0023	0.0037	0.0000	0.0093	0.0000
3.3956	0.0023	0.0038	0.0000	0.0098	0.0000
3.4396	0.0023	0.0039	0.0000	0.0102	0.0000
3.4835	0.0023	0.0040	0.0000	0.0107	0.0000
3.5275	0.0023	0.0041	0.0000	0.0112	0.0000
3.5714	0.0023	0.0042	0.0000	0.0117	0.0000
3.6154	0.0023	0.0043	0.0001	0.0122	0.0000
3.6593	0.0023	0.0044	0.0001	0.0126	0.0000
3.7033	0.0023	0.0045	0.0001	0.0131	0.0000
3.7473	0.0023	0.0046	0.0001	0.0136	0.0000
3.7912	0.0023	0.0047	0.0001	0.0141	0.0000
3.8352	0.0023	0.0048	0.0001	0.0146	0.0000
3.8791	0.0023	0.0049	0.0001	0.0150	0.0000
3.9231	0.0023	0.0050	0.0001	0.0155	0.0000
3.9670	0.0023	0.0051	0.0001	0.0160	0.0000
4.0000	0.0023	0.0052	0.0001	0.0163	0.0000

Surface etention 7R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 7R

Bioretention 8R

Bottom Length:	30.94 ft.
Bottom Width:	30.94 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	1.117
Total Volume Through Riser (ac-ft.):	0.193
Total Volume Through Facility (ac-ft.):	9.378
Percent Infiltrated:	11.91
Total Precip Applied to Facility:	1.115
Total Evap From Facility:	0.728
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.5
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	8.068
Total Outflow (ac-ft.):	9.378
Percent Through Underdrain:	86.03
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	12 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0220	0.0000	0.0000	0.0000
0.0440	0.0220	0.0004	0.0000	0.0000
0.0879	0.0220	0.0008	0.0000	0.0000
0.1319	0.0220	0.0012	0.0000	0.0000
0.1758	0.0220	0.0016	0.0000	0.0000
0.2198	0.0220	0.0019	0.0000	0.0000
0.2637	0.0220	0.0023	0.0000	0.0000
0.3077	0.0220	0.0027	0.0000	0.0000
0.3516	0.0220	0.0031	0.0000	0.0000
0.3956	0.0220	0.0035	0.0000	0.0000
0.4396	0.0220	0.0039	0.0000	0.0000
0.4835	0.0220	0.0043	0.0000	0.0000
0.5275	0.0220	0.0047	0.0002	0.0002
0.5714	0.0220	0.0051	0.0002	0.0002
0.6154	0.0220	0.0055	0.0003	0.0003
0.6593	0.0220	0.0059	0.0003	0.0003
0.7033	0.0220	0.0063	0.0003	0.0003
0.7473	0.0220	0.0067	0.0003	0.0003
0.7912	0.0220	0.0071	0.0003	0.0003
0.8352	0.0220	0.0075	0.0003	0.0003
0.8791	0.0220	0.0079	0.0003	0.0003
0.9231	0.0220	0.0083	0.0003	0.0003

0.9670	0.0220	0.0087	0.0003	0.0003
1.0110	0.0220	0.0091	0.0003	0.0003
1.0549	0.0220	0.0095	0.0003	0.0003
1.0989	0.0220	0.0100	0.0003	0.0003
1.1429	0.0220	0.0104	0.0003	0.0003
1.1868	0.0220	0.0108	0.0003	0.0003
1.2308	0.0220	0.0112	0.0003	0.0003
1.2747	0.0220	0.0116	0.0003	0.0003
1.3187	0.0220	0.0120	0.0003	0.0003
1.3626	0.0220	0.0124	0.0003	0.0003
1.4066	0.0220	0.0128	0.0003	0.0003
1.4505	0.0220	0.0132	0.0003	0.0003
1.4945	0.0220	0.0136	0.0003	0.0003
1.5385	0.0220	0.0140	0.0003	0.0003
1.5824	0.0220	0.0144	0.0003	0.0003
1.6264	0.0220	0.0148	0.0003	0.0003
1.6703	0.0220	0.0152	0.0003	0.0003
1.7143	0.0220	0.0156	0.0003	0.0003
1.7582	0.0220	0.0160	0.0003	0.0003
1.8022	0.0220	0.0164	0.0003	0.0003
1.8462	0.0220	0.0168	0.0003	0.0003
1.8901	0.0220	0.0173	0.0003	0.0003
1.9341	0.0220	0.0177	0.0003	0.0003
1.9780	0.0220	0.0181	0.0003	0.0003
2.0220	0.0220	0.0185	0.0003	0.0003
2.0659	0.0220	0.0189	0.0003	0.0003
2.1099	0.0220	0.0193	0.0003	0.0003
2.1538	0.0220	0.0197	0.0003	0.0003
2.1978	0.0220	0.0201	0.0003	0.0003
2.2418	0.0220	0.0205	0.0003	0.0003
2.2857	0.0220	0.0209	0.0003	0.0003
2.3297	0.0220	0.0213	0.0003	0.0003
2.3736	0.0220	0.0217	0.0003	0.0003
2.4176	0.0220	0.0221	0.0003	0.0003
2.4615	0.0220	0.0225	0.0003	0.0003
2.5055	0.0220	0.0229	0.0003	0.0003
2.5495	0.0220	0.0233	0.0003	0.0003
2.5934	0.0220	0.0237	0.0003	0.0003
2.6374	0.0220	0.0241	0.0003	0.0003
2.6813	0.0220	0.0245	0.0003	0.0003
2.7253	0.0220	0.0249	0.0003	0.0003
2.7692	0.0220	0.0253	0.0003	0.0003
2.8132	0.0220	0.0257	0.0003	0.0003
2.8571	0.0220	0.0261	0.0003	0.0003
2.9011	0.0220	0.0265	0.0003	0.0003
2.9451	0.0220	0.0269	0.0003	0.0003
2.9890	0.0220	0.0273	0.0003	0.0003
3.0000	0.0220	0.0274	0.0003	0.0003

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0220	0.0274	0.0000	0.0522	0.0000
3.0440	0.0220	0.0284	0.0000	0.0522	0.0000
3.0879	0.0220	0.0293	0.0000	0.0613	0.0000
3.1319	0.0220	0.0303	0.0000	0.0659	0.0000
3.1758	0.0220	0.0313	0.0000	0.0705	0.0000
3.2198	0.0220	0.0322	0.0000	0.0751	0.0000
3.2637	0.0220	0.0332	0.0000	0.0797	0.0000

3.3077	0.0220	0.0341	0.0000	0.0843	0.0000
3.3516	0.0220	0.0351	0.0000	0.0889	0.0000
3.3956	0.0220	0.0361	0.0000	0.0934	0.0000
3.4396	0.0220	0.0370	0.0000	0.0980	0.0000
3.4835	0.0220	0.0380	0.0000	0.1026	0.0000
3.5275	0.0220	0.0390	0.0005	0.1072	0.0000
3.5714	0.0220	0.0399	0.0007	0.1118	0.0000
3.6154	0.0220	0.0409	0.0010	0.1164	0.0000
3.6593	0.0220	0.0419	0.0011	0.1210	0.0000
3.7033	0.0220	0.0428	0.0013	0.1256	0.0000
3.7473	0.0220	0.0438	0.0014	0.1301	0.0000
3.7912	0.0220	0.0448	0.0016	0.1347	0.0000
3.8352	0.0220	0.0457	0.0016	0.1393	0.0000
3.8791	0.0220	0.0467	0.0018	0.1439	0.0000
3.9231	0.0220	0.0477	0.0019	0.1485	0.0000
3.9670	0.0220	0.0486	0.0020	0.1531	0.0000
4.0000	0.0220	0.0494	0.0021	0.1565	0.0000

Surface etention 8R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 8R

Bioretention 9R

Bottom Length:	14.28 ft.
Bottom Width:	14.28 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.212
Total Volume Through Riser (ac-ft.):	0
Total Volume Through Facility (ac-ft.):	0.574
Percent Infiltrated:	36.93
Total Precip Applied to Facility:	0.217
Total Evap From Facility:	0.137
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.13
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	0.362
Total Outflow (ac-ft.):	0.574
Percent Through Underdrain:	63.07
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0047	0.0000	0.0000	0.0000
0.0440	0.0047	0.0001	0.0000	0.0000
0.0879	0.0047	0.0002	0.0000	0.0000
0.1319	0.0047	0.0002	0.0000	0.0000
0.1758	0.0047	0.0003	0.0000	0.0000
0.2198	0.0047	0.0004	0.0000	0.0000
0.2637	0.0047	0.0005	0.0000	0.0000
0.3077	0.0047	0.0006	0.0000	0.0000
0.3516	0.0047	0.0007	0.0000	0.0000
0.3956	0.0047	0.0007	0.0000	0.0000
0.4396	0.0047	0.0008	0.0000	0.0000
0.4835	0.0047	0.0009	0.0000	0.0000
0.5275	0.0047	0.0010	0.0000	0.0000
0.5714	0.0047	0.0011	0.0000	0.0000
0.6154	0.0047	0.0012	0.0000	0.0000
0.6593	0.0047	0.0013	0.0000	0.0000
0.7033	0.0047	0.0013	0.0000	0.0000
0.7473	0.0047	0.0014	0.0000	0.0000
0.7912	0.0047	0.0015	0.0000	0.0000
0.8352	0.0047	0.0016	0.0000	0.0000
0.8791	0.0047	0.0017	0.0000	0.0000
0.9231	0.0047	0.0018	0.0000	0.0000

0.9670	0.0047	0.0019	0.0000	0.0000
1.0110	0.0047	0.0019	0.0000	0.0000
1.0549	0.0047	0.0020	0.0000	0.0000
1.0989	0.0047	0.0021	0.0000	0.0000
1.1429	0.0047	0.0022	0.0000	0.0000
1.1868	0.0047	0.0023	0.0000	0.0000
1.2308	0.0047	0.0024	0.0000	0.0000
1.2747	0.0047	0.0025	0.0000	0.0000
1.3187	0.0047	0.0026	0.0001	0.0001
1.3626	0.0047	0.0026	0.0001	0.0001
1.4066	0.0047	0.0027	0.0001	0.0001
1.4505	0.0047	0.0028	0.0001	0.0001
1.4945	0.0047	0.0029	0.0001	0.0001
1.5385	0.0047	0.0030	0.0001	0.0001
1.5824	0.0047	0.0031	0.0001	0.0001
1.6264	0.0047	0.0032	0.0001	0.0001
1.6703	0.0047	0.0032	0.0001	0.0001
1.7143	0.0047	0.0033	0.0001	0.0001
1.7582	0.0047	0.0034	0.0001	0.0001
1.8022	0.0047	0.0035	0.0001	0.0001
1.8462	0.0047	0.0036	0.0001	0.0001
1.8901	0.0047	0.0037	0.0001	0.0001
1.9341	0.0047	0.0038	0.0001	0.0001
1.9780	0.0047	0.0038	0.0001	0.0001
2.0220	0.0047	0.0039	0.0001	0.0001
2.0659	0.0047	0.0040	0.0001	0.0001
2.1099	0.0047	0.0041	0.0001	0.0001
2.1538	0.0047	0.0042	0.0001	0.0001
2.1978	0.0047	0.0043	0.0001	0.0001
2.2418	0.0047	0.0044	0.0001	0.0001
2.2857	0.0047	0.0044	0.0001	0.0001
2.3297	0.0047	0.0045	0.0001	0.0001
2.3736	0.0047	0.0046	0.0001	0.0001
2.4176	0.0047	0.0047	0.0001	0.0001
2.4615	0.0047	0.0048	0.0001	0.0001
2.5055	0.0047	0.0049	0.0001	0.0001
2.5495	0.0047	0.0050	0.0001	0.0001
2.5934	0.0047	0.0050	0.0001	0.0001
2.6374	0.0047	0.0051	0.0001	0.0001
2.6813	0.0047	0.0052	0.0001	0.0001
2.7253	0.0047	0.0053	0.0001	0.0001
2.7692	0.0047	0.0054	0.0001	0.0001
2.8132	0.0047	0.0055	0.0001	0.0001
2.8571	0.0047	0.0056	0.0001	0.0001
2.9011	0.0047	0.0056	0.0001	0.0001
2.9451	0.0047	0.0057	0.0001	0.0001
2.9890	0.0047	0.0058	0.0001	0.0001
3.0000	0.0047	0.0058	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0047	0.0058	0.0000	0.0111	0.0000
3.0440	0.0047	0.0060	0.0000	0.0111	0.0000
3.0879	0.0047	0.0062	0.0000	0.0131	0.0000
3.1319	0.0047	0.0065	0.0000	0.0140	0.0000
3.1758	0.0047	0.0067	0.0000	0.0150	0.0000
3.2198	0.0047	0.0069	0.0000	0.0160	0.0000
3.2637	0.0047	0.0071	0.0000	0.0170	0.0000

3.3077	0.0047	0.0073	0.0000	0.0180	0.0000
3.3516	0.0047	0.0075	0.0000	0.0189	0.0000
3.3956	0.0047	0.0077	0.0000	0.0199	0.0000
3.4396	0.0047	0.0079	0.0000	0.0209	0.0000
3.4835	0.0047	0.0081	0.0000	0.0219	0.0000
3.5275	0.0047	0.0083	0.0000	0.0228	0.0000
3.5714	0.0047	0.0085	0.0000	0.0238	0.0000
3.6154	0.0047	0.0087	0.0000	0.0248	0.0000
3.6593	0.0047	0.0089	0.0000	0.0258	0.0000
3.7033	0.0047	0.0091	0.0001	0.0267	0.0000
3.7473	0.0047	0.0093	0.0001	0.0277	0.0000
3.7912	0.0047	0.0095	0.0001	0.0287	0.0000
3.8352	0.0047	0.0097	0.0001	0.0297	0.0000
3.8791	0.0047	0.0099	0.0001	0.0307	0.0000
3.9231	0.0047	0.0102	0.0001	0.0316	0.0000
3.9670	0.0047	0.0104	0.0001	0.0326	0.0000
4.0000	0.0047	0.0105	0.0001	0.0333	0.0000

Surface etention 9R

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 9R

Bioretention 10S

Bottom Length:	17.86 ft.
Bottom Width:	17.86 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.348
Total Volume Through Riser (ac-ft.):	0.012
Total Volume Through Facility (ac-ft.):	1.997
Percent Infiltrated:	17.43
Total Precip Applied to Facility:	0.342
Total Evap From Facility:	0.23
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.25
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	1.637
Total Outflow (ac-ft.):	1.997
Percent Through Underdrain:	81.97
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0073	0.0000	0.0000	0.0000
0.0440	0.0073	0.0001	0.0000	0.0000
0.0879	0.0073	0.0003	0.0000	0.0000
0.1319	0.0073	0.0004	0.0000	0.0000
0.1758	0.0073	0.0005	0.0000	0.0000
0.2198	0.0073	0.0006	0.0000	0.0000
0.2637	0.0073	0.0008	0.0000	0.0000
0.3077	0.0073	0.0009	0.0000	0.0000
0.3516	0.0073	0.0010	0.0000	0.0000
0.3956	0.0073	0.0012	0.0000	0.0000
0.4396	0.0073	0.0013	0.0000	0.0000
0.4835	0.0073	0.0014	0.0000	0.0000
0.5275	0.0073	0.0016	0.0001	0.0001
0.5714	0.0073	0.0017	0.0001	0.0001
0.6154	0.0073	0.0018	0.0001	0.0001
0.6593	0.0073	0.0020	0.0001	0.0001
0.7033	0.0073	0.0021	0.0001	0.0001
0.7473	0.0073	0.0022	0.0001	0.0001
0.7912	0.0073	0.0024	0.0001	0.0001
0.8352	0.0073	0.0025	0.0001	0.0001
0.8791	0.0073	0.0026	0.0001	0.0001
0.9231	0.0073	0.0028	0.0001	0.0001

0.9670	0.0073	0.0029	0.0001	0.0001
1.0110	0.0073	0.0030	0.0001	0.0001
1.0549	0.0073	0.0032	0.0001	0.0001
1.0989	0.0073	0.0033	0.0001	0.0001
1.1429	0.0073	0.0035	0.0001	0.0001
1.1868	0.0073	0.0036	0.0001	0.0001
1.2308	0.0073	0.0037	0.0001	0.0001
1.2747	0.0073	0.0039	0.0001	0.0001
1.3187	0.0073	0.0040	0.0001	0.0001
1.3626	0.0073	0.0041	0.0001	0.0001
1.4066	0.0073	0.0043	0.0001	0.0001
1.4505	0.0073	0.0044	0.0001	0.0001
1.4945	0.0073	0.0045	0.0001	0.0001
1.5385	0.0073	0.0047	0.0001	0.0001
1.5824	0.0073	0.0048	0.0001	0.0001
1.6264	0.0073	0.0049	0.0001	0.0001
1.6703	0.0073	0.0051	0.0001	0.0001
1.7143	0.0073	0.0052	0.0001	0.0001
1.7582	0.0073	0.0053	0.0001	0.0001
1.8022	0.0073	0.0055	0.0001	0.0001
1.8462	0.0073	0.0056	0.0001	0.0001
1.8901	0.0073	0.0057	0.0001	0.0001
1.9341	0.0073	0.0059	0.0001	0.0001
1.9780	0.0073	0.0060	0.0001	0.0001
2.0220	0.0073	0.0062	0.0001	0.0001
2.0659	0.0073	0.0063	0.0001	0.0001
2.1099	0.0073	0.0064	0.0001	0.0001
2.1538	0.0073	0.0066	0.0001	0.0001
2.1978	0.0073	0.0067	0.0001	0.0001
2.2418	0.0073	0.0068	0.0001	0.0001
2.2857	0.0073	0.0070	0.0001	0.0001
2.3297	0.0073	0.0071	0.0001	0.0001
2.3736	0.0073	0.0072	0.0001	0.0001
2.4176	0.0073	0.0074	0.0001	0.0001
2.4615	0.0073	0.0075	0.0001	0.0001
2.5055	0.0073	0.0076	0.0001	0.0001
2.5495	0.0073	0.0078	0.0001	0.0001
2.5934	0.0073	0.0079	0.0001	0.0001
2.6374	0.0073	0.0080	0.0001	0.0001
2.6813	0.0073	0.0082	0.0001	0.0001
2.7253	0.0073	0.0083	0.0001	0.0001
2.7692	0.0073	0.0084	0.0001	0.0001
2.8132	0.0073	0.0086	0.0001	0.0001
2.8571	0.0073	0.0087	0.0001	0.0001
2.9011	0.0073	0.0088	0.0001	0.0001
2.9451	0.0073	0.0090	0.0001	0.0001
2.9890	0.0073	0.0091	0.0001	0.0001
3.0000	0.0073	0.0091	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0073	0.0091	0.0000	0.0174	0.0000
3.0440	0.0073	0.0094	0.0000	0.0174	0.0000
3.0879	0.0073	0.0098	0.0000	0.0204	0.0000
3.1319	0.0073	0.0101	0.0000	0.0220	0.0000
3.1758	0.0073	0.0104	0.0000	0.0235	0.0000
3.2198	0.0073	0.0107	0.0000	0.0250	0.0000
3.2637	0.0073	0.0111	0.0000	0.0266	0.0000

3.3077	0.0073	0.0114	0.0000	0.0281	0.0000
3.3516	0.0073	0.0117	0.0000	0.0296	0.0000
3.3956	0.0073	0.0120	0.0000	0.0311	0.0000
3.4396	0.0073	0.0123	0.0000	0.0327	0.0000
3.4835	0.0073	0.0127	0.0000	0.0342	0.0000
3.5275	0.0073	0.0130	0.0001	0.0357	0.0000
3.5714	0.0073	0.0133	0.0002	0.0373	0.0000
3.6154	0.0073	0.0136	0.0002	0.0388	0.0000
3.6593	0.0073	0.0140	0.0002	0.0403	0.0000
3.7033	0.0073	0.0143	0.0003	0.0418	0.0000
3.7473	0.0073	0.0146	0.0003	0.0434	0.0000
3.7912	0.0073	0.0149	0.0004	0.0449	0.0000
3.8352	0.0073	0.0152	0.0004	0.0464	0.0000
3.8791	0.0073	0.0156	0.0004	0.0479	0.0000
3.9231	0.0073	0.0159	0.0004	0.0495	0.0000
3.9670	0.0073	0.0162	0.0005	0.0510	0.0000
4.0000	0.0073	0.0164	0.0005	0.0522	0.0000

Surface tention 10S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 10S

Bioretention 11S

Bottom Length:	17.46 ft.
Bottom Width:	17.46 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.317
Total Volume Through Riser (ac-ft.):	0.008
Total Volume Through Facility (ac-ft.):	1.844
Percent Infiltrated:	17.19
Total Precip Applied to Facility:	0.327
Total Evap From Facility:	0.22
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.25
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	1.519
Total Outflow (ac-ft.):	1.844
Percent Through Underdrain:	82.38
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0070	0.0000	0.0000	0.0000
0.0440	0.0070	0.0001	0.0000	0.0000
0.0879	0.0070	0.0002	0.0000	0.0000
0.1319	0.0070	0.0004	0.0000	0.0000
0.1758	0.0070	0.0005	0.0000	0.0000
0.2198	0.0070	0.0006	0.0000	0.0000
0.2637	0.0070	0.0007	0.0000	0.0000
0.3077	0.0070	0.0009	0.0000	0.0000
0.3516	0.0070	0.0010	0.0000	0.0000
0.3956	0.0070	0.0011	0.0000	0.0000
0.4396	0.0070	0.0012	0.0000	0.0000
0.4835	0.0070	0.0014	0.0000	0.0000
0.5275	0.0070	0.0015	0.0001	0.0001
0.5714	0.0070	0.0016	0.0001	0.0001
0.6154	0.0070	0.0017	0.0001	0.0001
0.6593	0.0070	0.0019	0.0001	0.0001
0.7033	0.0070	0.0020	0.0001	0.0001
0.7473	0.0070	0.0021	0.0001	0.0001
0.7912	0.0070	0.0023	0.0001	0.0001
0.8352	0.0070	0.0024	0.0001	0.0001
0.8791	0.0070	0.0025	0.0001	0.0001
0.9231	0.0070	0.0027	0.0001	0.0001

0.9670	0.0070	0.0028	0.0001	0.0001
1.0110	0.0070	0.0029	0.0001	0.0001
1.0549	0.0070	0.0030	0.0001	0.0001
1.0989	0.0070	0.0032	0.0001	0.0001
1.1429	0.0070	0.0033	0.0001	0.0001
1.1868	0.0070	0.0034	0.0001	0.0001
1.2308	0.0070	0.0036	0.0001	0.0001
1.2747	0.0070	0.0037	0.0001	0.0001
1.3187	0.0070	0.0038	0.0001	0.0001
1.3626	0.0070	0.0039	0.0001	0.0001
1.4066	0.0070	0.0041	0.0001	0.0001
1.4505	0.0070	0.0042	0.0001	0.0001
1.4945	0.0070	0.0043	0.0001	0.0001
1.5385	0.0070	0.0045	0.0001	0.0001
1.5824	0.0070	0.0046	0.0001	0.0001
1.6264	0.0070	0.0047	0.0001	0.0001
1.6703	0.0070	0.0048	0.0001	0.0001
1.7143	0.0070	0.0050	0.0001	0.0001
1.7582	0.0070	0.0051	0.0001	0.0001
1.8022	0.0070	0.0052	0.0001	0.0001
1.8462	0.0070	0.0054	0.0001	0.0001
1.8901	0.0070	0.0055	0.0001	0.0001
1.9341	0.0070	0.0056	0.0001	0.0001
1.9780	0.0070	0.0058	0.0001	0.0001
2.0220	0.0070	0.0059	0.0001	0.0001
2.0659	0.0070	0.0060	0.0001	0.0001
2.1099	0.0070	0.0061	0.0001	0.0001
2.1538	0.0070	0.0063	0.0001	0.0001
2.1978	0.0070	0.0064	0.0001	0.0001
2.2418	0.0070	0.0065	0.0001	0.0001
2.2857	0.0070	0.0066	0.0001	0.0001
2.3297	0.0070	0.0068	0.0001	0.0001
2.3736	0.0070	0.0069	0.0001	0.0001
2.4176	0.0070	0.0070	0.0001	0.0001
2.4615	0.0070	0.0072	0.0001	0.0001
2.5055	0.0070	0.0073	0.0001	0.0001
2.5495	0.0070	0.0074	0.0001	0.0001
2.5934	0.0070	0.0075	0.0001	0.0001
2.6374	0.0070	0.0077	0.0001	0.0001
2.6813	0.0070	0.0078	0.0001	0.0001
2.7253	0.0070	0.0079	0.0001	0.0001
2.7692	0.0070	0.0081	0.0001	0.0001
2.8132	0.0070	0.0082	0.0001	0.0001
2.8571	0.0070	0.0083	0.0001	0.0001
2.9011	0.0070	0.0084	0.0001	0.0001
2.9451	0.0070	0.0086	0.0001	0.0001
2.9890	0.0070	0.0087	0.0001	0.0001
3.0000	0.0070	0.0087	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0070	0.0087	0.0000	0.0166	0.0000
3.0440	0.0070	0.0090	0.0000	0.0166	0.0000
3.0879	0.0070	0.0093	0.0000	0.0195	0.0000
3.1319	0.0070	0.0096	0.0000	0.0210	0.0000
3.1758	0.0070	0.0100	0.0000	0.0225	0.0000
3.2198	0.0070	0.0103	0.0000	0.0239	0.0000
3.2637	0.0070	0.0106	0.0000	0.0254	0.0000

3.3077	0.0070	0.0109	0.0000	0.0268	0.0000
3.3516	0.0070	0.0112	0.0000	0.0283	0.0000
3.3956	0.0070	0.0115	0.0000	0.0298	0.0000
3.4396	0.0070	0.0118	0.0000	0.0312	0.0000
3.4835	0.0070	0.0121	0.0000	0.0327	0.0000
3.5275	0.0070	0.0124	0.0001	0.0341	0.0000
3.5714	0.0070	0.0127	0.0002	0.0356	0.0000
3.6154	0.0070	0.0130	0.0002	0.0371	0.0000
3.6593	0.0070	0.0133	0.0003	0.0385	0.0000
3.7033	0.0070	0.0136	0.0003	0.0400	0.0000
3.7473	0.0070	0.0140	0.0003	0.0414	0.0000
3.7912	0.0070	0.0143	0.0004	0.0429	0.0000
3.8352	0.0070	0.0146	0.0004	0.0444	0.0000
3.8791	0.0070	0.0149	0.0004	0.0458	0.0000
3.9231	0.0070	0.0152	0.0004	0.0473	0.0000
3.9670	0.0070	0.0155	0.0005	0.0487	0.0000
4.0000	0.0070	0.0157	0.0005	0.0498	0.0000

Surface tention 11S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 11S

Bioretention DMA12S

Bottom Length:	20.10 ft.
Bottom Width:	20.10 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.446
Total Volume Through Riser (ac-ft.):	0.028
Total Volume Through Facility (ac-ft.):	2.968
Percent Infiltrated:	15.03
Total Precip Applied to Facility:	0.433
Total Evap From Facility:	0.296
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.494
Total Outflow (ac-ft.):	2.968
Percent Through Underdrain:	84.03
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0093	0.0000	0.0000	0.0000
0.0440	0.0093	0.0002	0.0000	0.0000
0.0879	0.0093	0.0003	0.0000	0.0000
0.1319	0.0093	0.0005	0.0000	0.0000
0.1758	0.0093	0.0007	0.0000	0.0000
0.2198	0.0093	0.0008	0.0000	0.0000
0.2637	0.0093	0.0010	0.0000	0.0000
0.3077	0.0093	0.0011	0.0000	0.0000
0.3516	0.0093	0.0013	0.0000	0.0000
0.3956	0.0093	0.0015	0.0000	0.0000
0.4396	0.0093	0.0016	0.0000	0.0000
0.4835	0.0093	0.0018	0.0000	0.0000
0.5275	0.0093	0.0020	0.0001	0.0001
0.5714	0.0093	0.0021	0.0001	0.0001
0.6154	0.0093	0.0023	0.0001	0.0001
0.6593	0.0093	0.0025	0.0001	0.0001
0.7033	0.0093	0.0027	0.0001	0.0001
0.7473	0.0093	0.0028	0.0001	0.0001
0.7912	0.0093	0.0030	0.0001	0.0001
0.8352	0.0093	0.0032	0.0001	0.0001
0.8791	0.0093	0.0033	0.0001	0.0001
0.9231	0.0093	0.0035	0.0001	0.0001

0.9670	0.0093	0.0037	0.0001	0.0001
1.0110	0.0093	0.0039	0.0001	0.0001
1.0549	0.0093	0.0040	0.0001	0.0001
1.0989	0.0093	0.0042	0.0001	0.0001
1.1429	0.0093	0.0044	0.0001	0.0001
1.1868	0.0093	0.0045	0.0001	0.0001
1.2308	0.0093	0.0047	0.0001	0.0001
1.2747	0.0093	0.0049	0.0001	0.0001
1.3187	0.0093	0.0051	0.0001	0.0001
1.3626	0.0093	0.0052	0.0001	0.0001
1.4066	0.0093	0.0054	0.0001	0.0001
1.4505	0.0093	0.0056	0.0001	0.0001
1.4945	0.0093	0.0057	0.0001	0.0001
1.5385	0.0093	0.0059	0.0001	0.0001
1.5824	0.0093	0.0061	0.0001	0.0001
1.6264	0.0093	0.0063	0.0001	0.0001
1.6703	0.0093	0.0064	0.0001	0.0001
1.7143	0.0093	0.0066	0.0001	0.0001
1.7582	0.0093	0.0068	0.0001	0.0001
1.8022	0.0093	0.0069	0.0001	0.0001
1.8462	0.0093	0.0071	0.0001	0.0001
1.8901	0.0093	0.0073	0.0001	0.0001
1.9341	0.0093	0.0075	0.0001	0.0001
1.9780	0.0093	0.0076	0.0001	0.0001
2.0220	0.0093	0.0078	0.0001	0.0001
2.0659	0.0093	0.0080	0.0001	0.0001
2.1099	0.0093	0.0081	0.0001	0.0001
2.1538	0.0093	0.0083	0.0001	0.0001
2.1978	0.0093	0.0085	0.0001	0.0001
2.2418	0.0093	0.0086	0.0001	0.0001
2.2857	0.0093	0.0088	0.0001	0.0001
2.3297	0.0093	0.0090	0.0001	0.0001
2.3736	0.0093	0.0091	0.0001	0.0001
2.4176	0.0093	0.0093	0.0001	0.0001
2.4615	0.0093	0.0095	0.0001	0.0001
2.5055	0.0093	0.0097	0.0001	0.0001
2.5495	0.0093	0.0098	0.0001	0.0001
2.5934	0.0093	0.0100	0.0001	0.0001
2.6374	0.0093	0.0102	0.0001	0.0001
2.6813	0.0093	0.0103	0.0001	0.0001
2.7253	0.0093	0.0105	0.0001	0.0001
2.7692	0.0093	0.0107	0.0001	0.0001
2.8132	0.0093	0.0108	0.0001	0.0001
2.8571	0.0093	0.0110	0.0001	0.0001
2.9011	0.0093	0.0112	0.0001	0.0001
2.9451	0.0093	0.0113	0.0001	0.0001
2.9890	0.0093	0.0115	0.0001	0.0001
3.0000	0.0093	0.0116	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0093	0.0116	0.0000	0.0220	0.0000
3.0440	0.0093	0.0120	0.0000	0.0220	0.0000
3.0879	0.0093	0.0124	0.0000	0.0259	0.0000
3.1319	0.0093	0.0128	0.0000	0.0278	0.0000
3.1758	0.0093	0.0132	0.0000	0.0298	0.0000
3.2198	0.0093	0.0136	0.0000	0.0317	0.0000
3.2637	0.0093	0.0140	0.0000	0.0336	0.0000

3.3077	0.0093	0.0144	0.0000	0.0356	0.0000
3.3516	0.0093	0.0148	0.0000	0.0375	0.0000
3.3956	0.0093	0.0152	0.0000	0.0394	0.0000
3.4396	0.0093	0.0156	0.0000	0.0414	0.0000
3.4835	0.0093	0.0160	0.0000	0.0433	0.0000
3.5275	0.0093	0.0165	0.0002	0.0452	0.0000
3.5714	0.0093	0.0169	0.0002	0.0472	0.0000
3.6154	0.0093	0.0173	0.0003	0.0491	0.0000
3.6593	0.0093	0.0177	0.0004	0.0511	0.0000
3.7033	0.0093	0.0181	0.0004	0.0530	0.0000
3.7473	0.0093	0.0185	0.0005	0.0549	0.0000
3.7912	0.0093	0.0189	0.0005	0.0569	0.0000
3.8352	0.0093	0.0193	0.0006	0.0588	0.0000
3.8791	0.0093	0.0197	0.0006	0.0607	0.0000
3.9231	0.0093	0.0201	0.0006	0.0627	0.0000
3.9670	0.0093	0.0205	0.0007	0.0646	0.0000
4.0000	0.0093	0.0208	0.0007	0.0661	0.0000

Surface tion DMA12S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention DMA12S

Bioretention 13S

Bottom Length:	19.95 ft.
Bottom Width:	19.95 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.423
Total Volume Through Riser (ac-ft.):	0.02
Total Volume Through Facility (ac-ft.):	2.769
Percent Infiltrated:	15.28
Total Precip Applied to Facility:	0.427
Total Evap From Facility:	0.29
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.326
Total Outflow (ac-ft.):	2.769
Percent Through Underdrain:	84
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0091	0.0000	0.0000	0.0000
0.0440	0.0091	0.0002	0.0000	0.0000
0.0879	0.0091	0.0003	0.0000	0.0000
0.1319	0.0091	0.0005	0.0000	0.0000
0.1758	0.0091	0.0006	0.0000	0.0000
0.2198	0.0091	0.0008	0.0000	0.0000
0.2637	0.0091	0.0010	0.0000	0.0000
0.3077	0.0091	0.0011	0.0000	0.0000
0.3516	0.0091	0.0013	0.0000	0.0000
0.3956	0.0091	0.0015	0.0000	0.0000
0.4396	0.0091	0.0016	0.0000	0.0000
0.4835	0.0091	0.0018	0.0000	0.0000
0.5275	0.0091	0.0019	0.0001	0.0001
0.5714	0.0091	0.0021	0.0001	0.0001
0.6154	0.0091	0.0023	0.0001	0.0001
0.6593	0.0091	0.0025	0.0001	0.0001
0.7033	0.0091	0.0026	0.0001	0.0001
0.7473	0.0091	0.0028	0.0001	0.0001
0.7912	0.0091	0.0030	0.0001	0.0001
0.8352	0.0091	0.0031	0.0001	0.0001
0.8791	0.0091	0.0033	0.0001	0.0001
0.9231	0.0091	0.0035	0.0001	0.0001

0.9670	0.0091	0.0036	0.0001	0.0001
1.0110	0.0091	0.0038	0.0001	0.0001
1.0549	0.0091	0.0040	0.0001	0.0001
1.0989	0.0091	0.0041	0.0001	0.0001
1.1429	0.0091	0.0043	0.0001	0.0001
1.1868	0.0091	0.0045	0.0001	0.0001
1.2308	0.0091	0.0046	0.0001	0.0001
1.2747	0.0091	0.0048	0.0001	0.0001
1.3187	0.0091	0.0050	0.0001	0.0001
1.3626	0.0091	0.0051	0.0001	0.0001
1.4066	0.0091	0.0053	0.0001	0.0001
1.4505	0.0091	0.0055	0.0001	0.0001
1.4945	0.0091	0.0057	0.0001	0.0001
1.5385	0.0091	0.0058	0.0001	0.0001
1.5824	0.0091	0.0060	0.0001	0.0001
1.6264	0.0091	0.0062	0.0001	0.0001
1.6703	0.0091	0.0063	0.0001	0.0001
1.7143	0.0091	0.0065	0.0001	0.0001
1.7582	0.0091	0.0067	0.0001	0.0001
1.8022	0.0091	0.0068	0.0001	0.0001
1.8462	0.0091	0.0070	0.0001	0.0001
1.8901	0.0091	0.0072	0.0001	0.0001
1.9341	0.0091	0.0073	0.0001	0.0001
1.9780	0.0091	0.0075	0.0001	0.0001
2.0220	0.0091	0.0077	0.0001	0.0001
2.0659	0.0091	0.0078	0.0001	0.0001
2.1099	0.0091	0.0080	0.0001	0.0001
2.1538	0.0091	0.0082	0.0001	0.0001
2.1978	0.0091	0.0083	0.0001	0.0001
2.2418	0.0091	0.0085	0.0001	0.0001
2.2857	0.0091	0.0087	0.0001	0.0001
2.3297	0.0091	0.0088	0.0001	0.0001
2.3736	0.0091	0.0090	0.0001	0.0001
2.4176	0.0091	0.0092	0.0001	0.0001
2.4615	0.0091	0.0093	0.0001	0.0001
2.5055	0.0091	0.0095	0.0001	0.0001
2.5495	0.0091	0.0097	0.0001	0.0001
2.5934	0.0091	0.0098	0.0001	0.0001
2.6374	0.0091	0.0100	0.0001	0.0001
2.6813	0.0091	0.0102	0.0001	0.0001
2.7253	0.0091	0.0103	0.0001	0.0001
2.7692	0.0091	0.0105	0.0001	0.0001
2.8132	0.0091	0.0107	0.0001	0.0001
2.8571	0.0091	0.0108	0.0001	0.0001
2.9011	0.0091	0.0110	0.0001	0.0001
2.9451	0.0091	0.0112	0.0001	0.0001
2.9890	0.0091	0.0113	0.0001	0.0001
3.0000	0.0091	0.0114	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0091	0.0114	0.0000	0.0217	0.0000
3.0440	0.0091	0.0118	0.0000	0.0217	0.0000
3.0879	0.0091	0.0122	0.0000	0.0255	0.0000
3.1319	0.0091	0.0126	0.0000	0.0274	0.0000
3.1758	0.0091	0.0130	0.0000	0.0293	0.0000
3.2198	0.0091	0.0134	0.0000	0.0312	0.0000
3.2637	0.0091	0.0138	0.0000	0.0331	0.0000

3.3077	0.0091	0.0142	0.0000	0.0350	0.0000
3.3516	0.0091	0.0146	0.0000	0.0369	0.0000
3.3956	0.0091	0.0150	0.0000	0.0389	0.0000
3.4396	0.0091	0.0154	0.0000	0.0408	0.0000
3.4835	0.0091	0.0158	0.0000	0.0427	0.0000
3.5275	0.0091	0.0162	0.0002	0.0446	0.0000
3.5714	0.0091	0.0166	0.0002	0.0465	0.0000
3.6154	0.0091	0.0170	0.0003	0.0484	0.0000
3.6593	0.0091	0.0174	0.0004	0.0503	0.0000
3.7033	0.0091	0.0178	0.0004	0.0522	0.0000
3.7473	0.0091	0.0182	0.0005	0.0541	0.0000
3.7912	0.0091	0.0186	0.0005	0.0560	0.0000
3.8352	0.0091	0.0190	0.0006	0.0579	0.0000
3.8791	0.0091	0.0194	0.0006	0.0598	0.0000
3.9231	0.0091	0.0198	0.0006	0.0617	0.0000
3.9670	0.0091	0.0202	0.0007	0.0636	0.0000
4.0000	0.0091	0.0205	0.0007	0.0651	0.0000

Surface tention 13S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 13S

Bioretention 14S

Bottom Length:	21.14 ft.
Bottom Width:	21.14 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.498
Total Volume Through Riser (ac-ft.):	0.022
Total Volume Through Facility (ac-ft.):	2.984
Percent Infiltrated:	16.69
Total Precip Applied to Facility:	0.479
Total Evap From Facility:	0.325
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.464
Total Outflow (ac-ft.):	2.984
Percent Through Underdrain:	82.57
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0103	0.0000	0.0000	0.0000
0.0440	0.0103	0.0002	0.0000	0.0000
0.0879	0.0103	0.0004	0.0000	0.0000
0.1319	0.0103	0.0005	0.0000	0.0000
0.1758	0.0103	0.0007	0.0000	0.0000
0.2198	0.0103	0.0009	0.0000	0.0000
0.2637	0.0103	0.0011	0.0000	0.0000
0.3077	0.0103	0.0013	0.0000	0.0000
0.3516	0.0103	0.0015	0.0000	0.0000
0.3956	0.0103	0.0016	0.0000	0.0000
0.4396	0.0103	0.0018	0.0000	0.0000
0.4835	0.0103	0.0020	0.0000	0.0000
0.5275	0.0103	0.0022	0.0001	0.0001
0.5714	0.0103	0.0024	0.0001	0.0001
0.6154	0.0103	0.0026	0.0001	0.0001
0.6593	0.0103	0.0028	0.0001	0.0001
0.7033	0.0103	0.0029	0.0001	0.0001
0.7473	0.0103	0.0031	0.0001	0.0001
0.7912	0.0103	0.0033	0.0001	0.0001
0.8352	0.0103	0.0035	0.0001	0.0001
0.8791	0.0103	0.0037	0.0001	0.0001
0.9231	0.0103	0.0039	0.0001	0.0001

0.9670	0.0103	0.0041	0.0001	0.0001
1.0110	0.0103	0.0043	0.0001	0.0001
1.0549	0.0103	0.0045	0.0001	0.0001
1.0989	0.0103	0.0046	0.0001	0.0001
1.1429	0.0103	0.0048	0.0001	0.0001
1.1868	0.0103	0.0050	0.0001	0.0001
1.2308	0.0103	0.0052	0.0001	0.0001
1.2747	0.0103	0.0054	0.0001	0.0001
1.3187	0.0103	0.0056	0.0001	0.0001
1.3626	0.0103	0.0058	0.0001	0.0001
1.4066	0.0103	0.0060	0.0001	0.0001
1.4505	0.0103	0.0062	0.0001	0.0001
1.4945	0.0103	0.0064	0.0001	0.0001
1.5385	0.0103	0.0065	0.0001	0.0001
1.5824	0.0103	0.0067	0.0001	0.0001
1.6264	0.0103	0.0069	0.0001	0.0001
1.6703	0.0103	0.0071	0.0001	0.0001
1.7143	0.0103	0.0073	0.0001	0.0001
1.7582	0.0103	0.0075	0.0001	0.0001
1.8022	0.0103	0.0077	0.0001	0.0001
1.8462	0.0103	0.0079	0.0001	0.0001
1.8901	0.0103	0.0081	0.0001	0.0001
1.9341	0.0103	0.0082	0.0001	0.0001
1.9780	0.0103	0.0084	0.0001	0.0001
2.0220	0.0103	0.0086	0.0001	0.0001
2.0659	0.0103	0.0088	0.0001	0.0001
2.1099	0.0103	0.0090	0.0001	0.0001
2.1538	0.0103	0.0092	0.0001	0.0001
2.1978	0.0103	0.0094	0.0001	0.0001
2.2418	0.0103	0.0096	0.0001	0.0001
2.2857	0.0103	0.0097	0.0001	0.0001
2.3297	0.0103	0.0099	0.0001	0.0001
2.3736	0.0103	0.0101	0.0001	0.0001
2.4176	0.0103	0.0103	0.0001	0.0001
2.4615	0.0103	0.0105	0.0001	0.0001
2.5055	0.0103	0.0107	0.0001	0.0001
2.5495	0.0103	0.0109	0.0001	0.0001
2.5934	0.0103	0.0111	0.0001	0.0001
2.6374	0.0103	0.0112	0.0001	0.0001
2.6813	0.0103	0.0114	0.0001	0.0001
2.7253	0.0103	0.0116	0.0001	0.0001
2.7692	0.0103	0.0118	0.0001	0.0001
2.8132	0.0103	0.0120	0.0001	0.0001
2.8571	0.0103	0.0122	0.0001	0.0001
2.9011	0.0103	0.0124	0.0001	0.0001
2.9451	0.0103	0.0126	0.0001	0.0001
2.9890	0.0103	0.0127	0.0001	0.0001
3.0000	0.0103	0.0128	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0103	0.0128	0.0000	0.0244	0.0000
3.0440	0.0103	0.0132	0.0000	0.0244	0.0000
3.0879	0.0103	0.0137	0.0000	0.0286	0.0000
3.1319	0.0103	0.0141	0.0000	0.0308	0.0000
3.1758	0.0103	0.0146	0.0000	0.0329	0.0000
3.2198	0.0103	0.0150	0.0000	0.0351	0.0000
3.2637	0.0103	0.0155	0.0000	0.0372	0.0000

3.3077	0.0103	0.0159	0.0000	0.0393	0.0000
3.3516	0.0103	0.0164	0.0000	0.0415	0.0000
3.3956	0.0103	0.0168	0.0000	0.0436	0.0000
3.4396	0.0103	0.0173	0.0000	0.0458	0.0000
3.4835	0.0103	0.0177	0.0000	0.0479	0.0000
3.5275	0.0103	0.0182	0.0002	0.0500	0.0000
3.5714	0.0103	0.0186	0.0002	0.0522	0.0000
3.6154	0.0103	0.0191	0.0003	0.0543	0.0000
3.6593	0.0103	0.0195	0.0004	0.0565	0.0000
3.7033	0.0103	0.0200	0.0004	0.0586	0.0000
3.7473	0.0103	0.0205	0.0005	0.0608	0.0000
3.7912	0.0103	0.0209	0.0005	0.0629	0.0000
3.8352	0.0103	0.0214	0.0005	0.0650	0.0000
3.8791	0.0103	0.0218	0.0006	0.0672	0.0000
3.9231	0.0103	0.0223	0.0006	0.0693	0.0000
3.9670	0.0103	0.0227	0.0007	0.0715	0.0000
4.0000	0.0103	0.0230	0.0007	0.0731	0.0000

Surface tention 14S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 14S

Bioretention 15S

Bottom Length:	20.81 ft.
Bottom Width:	20.81 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.459
Total Volume Through Riser (ac-ft.):	0.015
Total Volume Through Facility (ac-ft.):	2.734
Percent Infiltrated:	16.79
Total Precip Applied to Facility:	0.464
Total Evap From Facility:	0.313
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.26
Total Outflow (ac-ft.):	2.734
Percent Through Underdrain:	82.66
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0099	0.0000	0.0000	0.0000
0.0440	0.0099	0.0002	0.0000	0.0000
0.0879	0.0099	0.0004	0.0000	0.0000
0.1319	0.0099	0.0005	0.0000	0.0000
0.1758	0.0099	0.0007	0.0000	0.0000
0.2198	0.0099	0.0009	0.0000	0.0000
0.2637	0.0099	0.0011	0.0000	0.0000
0.3077	0.0099	0.0012	0.0000	0.0000
0.3516	0.0099	0.0014	0.0000	0.0000
0.3956	0.0099	0.0016	0.0000	0.0000
0.4396	0.0099	0.0018	0.0000	0.0000
0.4835	0.0099	0.0019	0.0000	0.0000
0.5275	0.0099	0.0021	0.0001	0.0001
0.5714	0.0099	0.0023	0.0001	0.0001
0.6154	0.0099	0.0025	0.0001	0.0001
0.6593	0.0099	0.0027	0.0001	0.0001
0.7033	0.0099	0.0029	0.0001	0.0001
0.7473	0.0099	0.0030	0.0001	0.0001
0.7912	0.0099	0.0032	0.0001	0.0001
0.8352	0.0099	0.0034	0.0001	0.0001
0.8791	0.0099	0.0036	0.0001	0.0001
0.9231	0.0099	0.0038	0.0001	0.0001

0.9670	0.0099	0.0040	0.0001	0.0001
1.0110	0.0099	0.0041	0.0001	0.0001
1.0549	0.0099	0.0043	0.0001	0.0001
1.0989	0.0099	0.0045	0.0001	0.0001
1.1429	0.0099	0.0047	0.0001	0.0001
1.1868	0.0099	0.0049	0.0001	0.0001
1.2308	0.0099	0.0051	0.0001	0.0001
1.2747	0.0099	0.0052	0.0001	0.0001
1.3187	0.0099	0.0054	0.0001	0.0001
1.3626	0.0099	0.0056	0.0001	0.0001
1.4066	0.0099	0.0058	0.0001	0.0001
1.4505	0.0099	0.0060	0.0001	0.0001
1.4945	0.0099	0.0062	0.0001	0.0001
1.5385	0.0099	0.0063	0.0001	0.0001
1.5824	0.0099	0.0065	0.0001	0.0001
1.6264	0.0099	0.0067	0.0001	0.0001
1.6703	0.0099	0.0069	0.0001	0.0001
1.7143	0.0099	0.0071	0.0001	0.0001
1.7582	0.0099	0.0073	0.0001	0.0001
1.8022	0.0099	0.0074	0.0001	0.0001
1.8462	0.0099	0.0076	0.0001	0.0001
1.8901	0.0099	0.0078	0.0001	0.0001
1.9341	0.0099	0.0080	0.0001	0.0001
1.9780	0.0099	0.0082	0.0001	0.0001
2.0220	0.0099	0.0084	0.0001	0.0001
2.0659	0.0099	0.0085	0.0001	0.0001
2.1099	0.0099	0.0087	0.0001	0.0001
2.1538	0.0099	0.0089	0.0001	0.0001
2.1978	0.0099	0.0091	0.0001	0.0001
2.2418	0.0099	0.0093	0.0001	0.0001
2.2857	0.0099	0.0094	0.0001	0.0001
2.3297	0.0099	0.0096	0.0001	0.0001
2.3736	0.0099	0.0098	0.0001	0.0001
2.4176	0.0099	0.0100	0.0001	0.0001
2.4615	0.0099	0.0102	0.0001	0.0001
2.5055	0.0099	0.0103	0.0001	0.0001
2.5495	0.0099	0.0105	0.0001	0.0001
2.5934	0.0099	0.0107	0.0001	0.0001
2.6374	0.0099	0.0109	0.0001	0.0001
2.6813	0.0099	0.0111	0.0001	0.0001
2.7253	0.0099	0.0113	0.0001	0.0001
2.7692	0.0099	0.0114	0.0001	0.0001
2.8132	0.0099	0.0116	0.0001	0.0001
2.8571	0.0099	0.0118	0.0001	0.0001
2.9011	0.0099	0.0120	0.0001	0.0001
2.9451	0.0099	0.0122	0.0001	0.0001
2.9890	0.0099	0.0123	0.0001	0.0001
3.0000	0.0099	0.0124	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0099	0.0124	0.0000	0.0236	0.0000
3.0440	0.0099	0.0128	0.0000	0.0236	0.0000
3.0879	0.0099	0.0133	0.0000	0.0278	0.0000
3.1319	0.0099	0.0137	0.0000	0.0298	0.0000
3.1758	0.0099	0.0141	0.0000	0.0319	0.0000
3.2198	0.0099	0.0146	0.0000	0.0340	0.0000
3.2637	0.0099	0.0150	0.0000	0.0360	0.0000

3.3077	0.0099	0.0154	0.0000	0.0381	0.0000
3.3516	0.0099	0.0159	0.0000	0.0402	0.0000
3.3956	0.0099	0.0163	0.0000	0.0423	0.0000
3.4396	0.0099	0.0168	0.0000	0.0443	0.0000
3.4835	0.0099	0.0172	0.0000	0.0464	0.0000
3.5275	0.0099	0.0176	0.0002	0.0485	0.0000
3.5714	0.0099	0.0181	0.0002	0.0506	0.0000
3.6154	0.0099	0.0185	0.0003	0.0526	0.0000
3.6593	0.0099	0.0189	0.0004	0.0547	0.0000
3.7033	0.0099	0.0194	0.0004	0.0568	0.0000
3.7473	0.0099	0.0198	0.0005	0.0589	0.0000
3.7912	0.0099	0.0203	0.0005	0.0609	0.0000
3.8352	0.0099	0.0207	0.0006	0.0630	0.0000
3.8791	0.0099	0.0211	0.0006	0.0651	0.0000
3.9231	0.0099	0.0216	0.0006	0.0672	0.0000
3.9670	0.0099	0.0220	0.0007	0.0692	0.0000
4.0000	0.0099	0.0223	0.0007	0.0708	0.0000

Surface tention 15S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 15S

Bioretention 18S

Bottom Length:	18.84 ft.
Bottom Width:	18.84 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.347
Total Volume Through Riser (ac-ft.):	0.026
Total Volume Through Facility (ac-ft.):	2.458
Percent Infiltrated:	14.12
Total Precip Applied to Facility:	0.418
Total Evap From Facility:	0.263
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	2.085
Total Outflow (ac-ft.):	2.458
Percent Through Underdrain:	84.83
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0081	0.0000	0.0000	0.0000
0.0440	0.0081	0.0001	0.0000	0.0000
0.0879	0.0081	0.0003	0.0000	0.0000
0.1319	0.0081	0.0004	0.0000	0.0000
0.1758	0.0081	0.0006	0.0000	0.0000
0.2198	0.0081	0.0007	0.0000	0.0000
0.2637	0.0081	0.0009	0.0000	0.0000
0.3077	0.0081	0.0010	0.0000	0.0000
0.3516	0.0081	0.0012	0.0000	0.0000
0.3956	0.0081	0.0013	0.0000	0.0000
0.4396	0.0081	0.0014	0.0000	0.0000
0.4835	0.0081	0.0016	0.0000	0.0000
0.5275	0.0081	0.0017	0.0001	0.0001
0.5714	0.0081	0.0019	0.0001	0.0001
0.6154	0.0081	0.0020	0.0001	0.0001
0.6593	0.0081	0.0022	0.0001	0.0001
0.7033	0.0081	0.0023	0.0001	0.0001
0.7473	0.0081	0.0025	0.0001	0.0001
0.7912	0.0081	0.0026	0.0001	0.0001
0.8352	0.0081	0.0028	0.0001	0.0001
0.8791	0.0081	0.0029	0.0001	0.0001
0.9231	0.0081	0.0031	0.0001	0.0001

0.9670	0.0081	0.0032	0.0001	0.0001
1.0110	0.0081	0.0034	0.0001	0.0001
1.0549	0.0081	0.0035	0.0001	0.0001
1.0989	0.0081	0.0037	0.0001	0.0001
1.1429	0.0081	0.0038	0.0001	0.0001
1.1868	0.0081	0.0040	0.0001	0.0001
1.2308	0.0081	0.0041	0.0001	0.0001
1.2747	0.0081	0.0043	0.0001	0.0001
1.3187	0.0081	0.0044	0.0001	0.0001
1.3626	0.0081	0.0046	0.0001	0.0001
1.4066	0.0081	0.0047	0.0001	0.0001
1.4505	0.0081	0.0049	0.0001	0.0001
1.4945	0.0081	0.0050	0.0001	0.0001
1.5385	0.0081	0.0052	0.0001	0.0001
1.5824	0.0081	0.0053	0.0001	0.0001
1.6264	0.0081	0.0055	0.0001	0.0001
1.6703	0.0081	0.0056	0.0001	0.0001
1.7143	0.0081	0.0058	0.0001	0.0001
1.7582	0.0081	0.0059	0.0001	0.0001
1.8022	0.0081	0.0061	0.0001	0.0001
1.8462	0.0081	0.0062	0.0001	0.0001
1.8901	0.0081	0.0064	0.0001	0.0001
1.9341	0.0081	0.0065	0.0001	0.0001
1.9780	0.0081	0.0067	0.0001	0.0001
2.0220	0.0081	0.0068	0.0001	0.0001
2.0659	0.0081	0.0070	0.0001	0.0001
2.1099	0.0081	0.0071	0.0001	0.0001
2.1538	0.0081	0.0073	0.0001	0.0001
2.1978	0.0081	0.0074	0.0001	0.0001
2.2418	0.0081	0.0076	0.0001	0.0001
2.2857	0.0081	0.0077	0.0001	0.0001
2.3297	0.0081	0.0079	0.0001	0.0001
2.3736	0.0081	0.0080	0.0001	0.0001
2.4176	0.0081	0.0082	0.0001	0.0001
2.4615	0.0081	0.0083	0.0001	0.0001
2.5055	0.0081	0.0085	0.0001	0.0001
2.5495	0.0081	0.0086	0.0001	0.0001
2.5934	0.0081	0.0088	0.0001	0.0001
2.6374	0.0081	0.0089	0.0001	0.0001
2.6813	0.0081	0.0091	0.0001	0.0001
2.7253	0.0081	0.0092	0.0001	0.0001
2.7692	0.0081	0.0094	0.0001	0.0001
2.8132	0.0081	0.0095	0.0001	0.0001
2.8571	0.0081	0.0097	0.0001	0.0001
2.9011	0.0081	0.0098	0.0001	0.0001
2.9451	0.0081	0.0100	0.0001	0.0001
2.9890	0.0081	0.0101	0.0001	0.0001
3.0000	0.0081	0.0102	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0081	0.0102	0.0000	0.0193	0.0000
3.0440	0.0081	0.0105	0.0000	0.0193	0.0000
3.0879	0.0081	0.0109	0.0000	0.0227	0.0000
3.1319	0.0081	0.0112	0.0000	0.0244	0.0000
3.1758	0.0081	0.0116	0.0000	0.0261	0.0000
3.2198	0.0081	0.0119	0.0000	0.0278	0.0000
3.2637	0.0081	0.0123	0.0000	0.0295	0.0000

3.3077	0.0081	0.0127	0.0000	0.0312	0.0000
3.3516	0.0081	0.0130	0.0000	0.0329	0.0000
3.3956	0.0081	0.0134	0.0000	0.0346	0.0000
3.4396	0.0081	0.0137	0.0000	0.0363	0.0000
3.4835	0.0081	0.0141	0.0000	0.0381	0.0000
3.5275	0.0081	0.0145	0.0002	0.0398	0.0000
3.5714	0.0081	0.0148	0.0003	0.0415	0.0000
3.6154	0.0081	0.0152	0.0004	0.0432	0.0000
3.6593	0.0081	0.0155	0.0004	0.0449	0.0000
3.7033	0.0081	0.0159	0.0005	0.0466	0.0000
3.7473	0.0081	0.0162	0.0005	0.0483	0.0000
3.7912	0.0081	0.0166	0.0006	0.0500	0.0000
3.8352	0.0081	0.0170	0.0006	0.0517	0.0000
3.8791	0.0081	0.0173	0.0006	0.0534	0.0000
3.9231	0.0081	0.0177	0.0007	0.0551	0.0000
3.9670	0.0081	0.0180	0.0007	0.0568	0.0000
4.0000	0.0081	0.0183	0.0007	0.0580	0.0000

Surface tention 18S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 18S

Bioretention 19S

Bottom Length:	19.03 ft.
Bottom Width:	19.03 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.43
Total Volume Through Riser (ac-ft.):	0.11
Total Volume Through Facility (ac-ft.):	3.554
Percent Infiltrated:	12.1
Total Precip Applied to Facility:	0.428
Total Evap From Facility:	0.28
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	3.014
Total Outflow (ac-ft.):	3.554
Percent Through Underdrain:	84.81
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0083	0.0000	0.0000	0.0000
0.0440	0.0083	0.0001	0.0000	0.0000
0.0879	0.0083	0.0003	0.0000	0.0000
0.1319	0.0083	0.0004	0.0000	0.0000
0.1758	0.0083	0.0006	0.0000	0.0000
0.2198	0.0083	0.0007	0.0000	0.0000
0.2637	0.0083	0.0009	0.0000	0.0000
0.3077	0.0083	0.0010	0.0000	0.0000
0.3516	0.0083	0.0012	0.0000	0.0000
0.3956	0.0083	0.0013	0.0000	0.0000
0.4396	0.0083	0.0015	0.0000	0.0000
0.4835	0.0083	0.0016	0.0000	0.0000
0.5275	0.0083	0.0018	0.0001	0.0001
0.5714	0.0083	0.0019	0.0001	0.0001
0.6154	0.0083	0.0021	0.0001	0.0001
0.6593	0.0083	0.0022	0.0001	0.0001
0.7033	0.0083	0.0024	0.0001	0.0001
0.7473	0.0083	0.0025	0.0001	0.0001
0.7912	0.0083	0.0027	0.0001	0.0001
0.8352	0.0083	0.0028	0.0001	0.0001
0.8791	0.0083	0.0030	0.0001	0.0001
0.9231	0.0083	0.0032	0.0001	0.0001

0.9670	0.0083	0.0033	0.0001	0.0001
1.0110	0.0083	0.0035	0.0001	0.0001
1.0549	0.0083	0.0036	0.0001	0.0001
1.0989	0.0083	0.0038	0.0001	0.0001
1.1429	0.0083	0.0039	0.0001	0.0001
1.1868	0.0083	0.0041	0.0001	0.0001
1.2308	0.0083	0.0042	0.0001	0.0001
1.2747	0.0083	0.0044	0.0001	0.0001
1.3187	0.0083	0.0045	0.0001	0.0001
1.3626	0.0083	0.0047	0.0001	0.0001
1.4066	0.0083	0.0048	0.0001	0.0001
1.4505	0.0083	0.0050	0.0001	0.0001
1.4945	0.0083	0.0051	0.0001	0.0001
1.5385	0.0083	0.0053	0.0001	0.0001
1.5824	0.0083	0.0055	0.0001	0.0001
1.6264	0.0083	0.0056	0.0001	0.0001
1.6703	0.0083	0.0058	0.0001	0.0001
1.7143	0.0083	0.0059	0.0001	0.0001
1.7582	0.0083	0.0061	0.0001	0.0001
1.8022	0.0083	0.0062	0.0001	0.0001
1.8462	0.0083	0.0064	0.0001	0.0001
1.8901	0.0083	0.0065	0.0001	0.0001
1.9341	0.0083	0.0067	0.0001	0.0001
1.9780	0.0083	0.0068	0.0001	0.0001
2.0220	0.0083	0.0070	0.0001	0.0001
2.0659	0.0083	0.0071	0.0001	0.0001
2.1099	0.0083	0.0073	0.0001	0.0001
2.1538	0.0083	0.0074	0.0001	0.0001
2.1978	0.0083	0.0076	0.0001	0.0001
2.2418	0.0083	0.0077	0.0001	0.0001
2.2857	0.0083	0.0079	0.0001	0.0001
2.3297	0.0083	0.0080	0.0001	0.0001
2.3736	0.0083	0.0082	0.0001	0.0001
2.4176	0.0083	0.0084	0.0001	0.0001
2.4615	0.0083	0.0085	0.0001	0.0001
2.5055	0.0083	0.0087	0.0001	0.0001
2.5495	0.0083	0.0088	0.0001	0.0001
2.5934	0.0083	0.0090	0.0001	0.0001
2.6374	0.0083	0.0091	0.0001	0.0001
2.6813	0.0083	0.0093	0.0001	0.0001
2.7253	0.0083	0.0094	0.0001	0.0001
2.7692	0.0083	0.0096	0.0001	0.0001
2.8132	0.0083	0.0097	0.0001	0.0001
2.8571	0.0083	0.0099	0.0001	0.0001
2.9011	0.0083	0.0100	0.0001	0.0001
2.9451	0.0083	0.0102	0.0001	0.0001
2.9890	0.0083	0.0103	0.0001	0.0001
3.0000	0.0083	0.0104	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0083	0.0104	0.0000	0.0197	0.0000
3.0440	0.0083	0.0107	0.0000	0.0197	0.0000
3.0879	0.0083	0.0111	0.0000	0.0232	0.0000
3.1319	0.0083	0.0115	0.0000	0.0249	0.0000
3.1758	0.0083	0.0118	0.0000	0.0267	0.0000
3.2198	0.0083	0.0122	0.0000	0.0284	0.0000
3.2637	0.0083	0.0126	0.0000	0.0301	0.0000

3.3077	0.0083	0.0129	0.0000	0.0319	0.0000
3.3516	0.0083	0.0133	0.0000	0.0336	0.0000
3.3956	0.0083	0.0136	0.0000	0.0354	0.0000
3.4396	0.0083	0.0140	0.0000	0.0371	0.0000
3.4835	0.0083	0.0144	0.0000	0.0388	0.0000
3.5275	0.0083	0.0147	0.0002	0.0406	0.0000
3.5714	0.0083	0.0151	0.0003	0.0423	0.0000
3.6154	0.0083	0.0155	0.0003	0.0440	0.0000
3.6593	0.0083	0.0158	0.0004	0.0458	0.0000
3.7033	0.0083	0.0162	0.0005	0.0475	0.0000
3.7473	0.0083	0.0166	0.0005	0.0492	0.0000
3.7912	0.0083	0.0169	0.0006	0.0510	0.0000
3.8352	0.0083	0.0173	0.0006	0.0527	0.0000
3.8791	0.0083	0.0177	0.0006	0.0544	0.0000
3.9231	0.0083	0.0180	0.0007	0.0562	0.0000
3.9670	0.0083	0.0184	0.0007	0.0579	0.0000
4.0000	0.0083	0.0187	0.0007	0.0592	0.0000

Surface tention 19S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 19S

Bioretention 20S

Bottom Length:	19.85 ft.
Bottom Width:	19.85 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.484
Total Volume Through Riser (ac-ft.):	0.117
Total Volume Through Facility (ac-ft.):	3.732
Percent Infiltrated:	12.97
Total Precip Applied to Facility:	0.465
Total Evap From Facility:	0.304
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	3.131
Total Outflow (ac-ft.):	3.732
Percent Through Underdrain:	83.9
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	12 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0090	0.0000	0.0000	0.0000
0.0440	0.0090	0.0002	0.0000	0.0000
0.0879	0.0090	0.0003	0.0000	0.0000
0.1319	0.0090	0.0005	0.0000	0.0000
0.1758	0.0090	0.0006	0.0000	0.0000
0.2198	0.0090	0.0008	0.0000	0.0000
0.2637	0.0090	0.0010	0.0000	0.0000
0.3077	0.0090	0.0011	0.0000	0.0000
0.3516	0.0090	0.0013	0.0000	0.0000
0.3956	0.0090	0.0014	0.0000	0.0000
0.4396	0.0090	0.0016	0.0000	0.0000
0.4835	0.0090	0.0018	0.0000	0.0000
0.5275	0.0090	0.0019	0.0001	0.0001
0.5714	0.0090	0.0021	0.0001	0.0001
0.6154	0.0090	0.0023	0.0001	0.0001
0.6593	0.0090	0.0024	0.0001	0.0001
0.7033	0.0090	0.0026	0.0001	0.0001
0.7473	0.0090	0.0028	0.0001	0.0001
0.7912	0.0090	0.0029	0.0001	0.0001
0.8352	0.0090	0.0031	0.0001	0.0001
0.8791	0.0090	0.0033	0.0001	0.0001
0.9231	0.0090	0.0034	0.0001	0.0001

0.9670	0.0090	0.0036	0.0001	0.0001
1.0110	0.0090	0.0038	0.0001	0.0001
1.0549	0.0090	0.0039	0.0001	0.0001
1.0989	0.0090	0.0041	0.0001	0.0001
1.1429	0.0090	0.0043	0.0001	0.0001
1.1868	0.0090	0.0044	0.0001	0.0001
1.2308	0.0090	0.0046	0.0001	0.0001
1.2747	0.0090	0.0048	0.0001	0.0001
1.3187	0.0090	0.0049	0.0001	0.0001
1.3626	0.0090	0.0051	0.0001	0.0001
1.4066	0.0090	0.0053	0.0001	0.0001
1.4505	0.0090	0.0054	0.0001	0.0001
1.4945	0.0090	0.0056	0.0001	0.0001
1.5385	0.0090	0.0058	0.0001	0.0001
1.5824	0.0090	0.0059	0.0001	0.0001
1.6264	0.0090	0.0061	0.0001	0.0001
1.6703	0.0090	0.0063	0.0001	0.0001
1.7143	0.0090	0.0064	0.0001	0.0001
1.7582	0.0090	0.0066	0.0001	0.0001
1.8022	0.0090	0.0068	0.0001	0.0001
1.8462	0.0090	0.0069	0.0001	0.0001
1.8901	0.0090	0.0071	0.0001	0.0001
1.9341	0.0090	0.0073	0.0001	0.0001
1.9780	0.0090	0.0074	0.0001	0.0001
2.0220	0.0090	0.0076	0.0001	0.0001
2.0659	0.0090	0.0078	0.0001	0.0001
2.1099	0.0090	0.0079	0.0001	0.0001
2.1538	0.0090	0.0081	0.0001	0.0001
2.1978	0.0090	0.0083	0.0001	0.0001
2.2418	0.0090	0.0084	0.0001	0.0001
2.2857	0.0090	0.0086	0.0001	0.0001
2.3297	0.0090	0.0088	0.0001	0.0001
2.3736	0.0090	0.0089	0.0001	0.0001
2.4176	0.0090	0.0091	0.0001	0.0001
2.4615	0.0090	0.0093	0.0001	0.0001
2.5055	0.0090	0.0094	0.0001	0.0001
2.5495	0.0090	0.0096	0.0001	0.0001
2.5934	0.0090	0.0097	0.0001	0.0001
2.6374	0.0090	0.0099	0.0001	0.0001
2.6813	0.0090	0.0101	0.0001	0.0001
2.7253	0.0090	0.0102	0.0001	0.0001
2.7692	0.0090	0.0104	0.0001	0.0001
2.8132	0.0090	0.0106	0.0001	0.0001
2.8571	0.0090	0.0107	0.0001	0.0001
2.9011	0.0090	0.0109	0.0001	0.0001
2.9451	0.0090	0.0111	0.0001	0.0001
2.9890	0.0090	0.0112	0.0001	0.0001
3.0000	0.0090	0.0113	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0090	0.0113	0.0000	0.0215	0.0000
3.0440	0.0090	0.0117	0.0000	0.0215	0.0000
3.0879	0.0090	0.0121	0.0000	0.0252	0.0000
3.1319	0.0090	0.0125	0.0000	0.0271	0.0000
3.1758	0.0090	0.0129	0.0000	0.0290	0.0000
3.2198	0.0090	0.0133	0.0000	0.0309	0.0000
3.2637	0.0090	0.0137	0.0000	0.0328	0.0000

3.3077	0.0090	0.0141	0.0000	0.0347	0.0000
3.3516	0.0090	0.0145	0.0000	0.0366	0.0000
3.3956	0.0090	0.0149	0.0000	0.0385	0.0000
3.4396	0.0090	0.0152	0.0000	0.0404	0.0000
3.4835	0.0090	0.0156	0.0000	0.0422	0.0000
3.5275	0.0090	0.0160	0.0002	0.0441	0.0000
3.5714	0.0090	0.0164	0.0002	0.0460	0.0000
3.6154	0.0090	0.0168	0.0003	0.0479	0.0000
3.6593	0.0090	0.0172	0.0004	0.0498	0.0000
3.7033	0.0090	0.0176	0.0004	0.0517	0.0000
3.7473	0.0090	0.0180	0.0005	0.0536	0.0000
3.7912	0.0090	0.0184	0.0005	0.0555	0.0000
3.8352	0.0090	0.0188	0.0006	0.0573	0.0000
3.8791	0.0090	0.0192	0.0006	0.0592	0.0000
3.9231	0.0090	0.0196	0.0006	0.0611	0.0000
3.9670	0.0090	0.0200	0.0007	0.0630	0.0000
4.0000	0.0090	0.0203	0.0007	0.0644	0.0000

Surface tention 20S

Element Flows To:

Outlet 1	Outlet 2
	Bioretention 20S

Bioretention 3R

Bottom Length:	14.04 ft.
Bottom Width:	14.04 ft.
Material thickness of first layer:	0.5
Material type for first layer:	Sandy loam
Material thickness of second layer:	1.5
Material type for second layer:	Amended 5 in/hr
Material thickness of third layer:	1
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.03
Infiltration safety factor:	0.5
Total Volume Infiltrated (ac-ft.):	0.237
Total Volume Through Riser (ac-ft.):	0.55
Total Volume Through Facility (ac-ft.):	4.874
Percent Infiltrated:	4.86
Total Precip Applied to Facility:	0.213
Total Evap From Facility:	0.16
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	0.3
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	4.087
Total Outflow (ac-ft.):	4.874
Percent Through Underdrain:	83.85
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	6 in.
Element Flows To:	
Outlet 1	Outlet 2
Tank 1	

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0045	0.0000	0.0000	0.0000
0.0440	0.0045	0.0001	0.0000	0.0000
0.0879	0.0045	0.0002	0.0000	0.0000
0.1319	0.0045	0.0002	0.0000	0.0000
0.1758	0.0045	0.0003	0.0000	0.0000
0.2198	0.0045	0.0004	0.0000	0.0000
0.2637	0.0045	0.0005	0.0000	0.0000
0.3077	0.0045	0.0006	0.0000	0.0000
0.3516	0.0045	0.0006	0.0000	0.0000
0.3956	0.0045	0.0007	0.0000	0.0000
0.4396	0.0045	0.0008	0.0000	0.0000
0.4835	0.0045	0.0009	0.0000	0.0000
0.5275	0.0045	0.0010	0.0000	0.0000
0.5714	0.0045	0.0010	0.0001	0.0001
0.6154	0.0045	0.0011	0.0001	0.0001
0.6593	0.0045	0.0012	0.0001	0.0001
0.7033	0.0045	0.0013	0.0001	0.0001
0.7473	0.0045	0.0014	0.0001	0.0001
0.7912	0.0045	0.0015	0.0001	0.0001
0.8352	0.0045	0.0015	0.0001	0.0001
0.8791	0.0045	0.0016	0.0001	0.0001
0.9231	0.0045	0.0017	0.0001	0.0001

0.9670	0.0045	0.0018	0.0001	0.0001
1.0110	0.0045	0.0019	0.0001	0.0001
1.0549	0.0045	0.0020	0.0001	0.0001
1.0989	0.0045	0.0020	0.0001	0.0001
1.1429	0.0045	0.0021	0.0001	0.0001
1.1868	0.0045	0.0022	0.0001	0.0001
1.2308	0.0045	0.0023	0.0001	0.0001
1.2747	0.0045	0.0024	0.0001	0.0001
1.3187	0.0045	0.0025	0.0001	0.0001
1.3626	0.0045	0.0026	0.0001	0.0001
1.4066	0.0045	0.0026	0.0001	0.0001
1.4505	0.0045	0.0027	0.0001	0.0001
1.4945	0.0045	0.0028	0.0001	0.0001
1.5385	0.0045	0.0029	0.0001	0.0001
1.5824	0.0045	0.0030	0.0001	0.0001
1.6264	0.0045	0.0031	0.0001	0.0001
1.6703	0.0045	0.0031	0.0001	0.0001
1.7143	0.0045	0.0032	0.0001	0.0001
1.7582	0.0045	0.0033	0.0001	0.0001
1.8022	0.0045	0.0034	0.0001	0.0001
1.8462	0.0045	0.0035	0.0001	0.0001
1.8901	0.0045	0.0036	0.0001	0.0001
1.9341	0.0045	0.0036	0.0001	0.0001
1.9780	0.0045	0.0037	0.0001	0.0001
2.0220	0.0045	0.0038	0.0001	0.0001
2.0659	0.0045	0.0039	0.0001	0.0001
2.1099	0.0045	0.0040	0.0001	0.0001
2.1538	0.0045	0.0041	0.0001	0.0001
2.1978	0.0045	0.0041	0.0001	0.0001
2.2418	0.0045	0.0042	0.0001	0.0001
2.2857	0.0045	0.0043	0.0001	0.0001
2.3297	0.0045	0.0044	0.0001	0.0001
2.3736	0.0045	0.0045	0.0001	0.0001
2.4176	0.0045	0.0045	0.0001	0.0001
2.4615	0.0045	0.0046	0.0001	0.0001
2.5055	0.0045	0.0047	0.0001	0.0001
2.5495	0.0045	0.0048	0.0001	0.0001
2.5934	0.0045	0.0049	0.0001	0.0001
2.6374	0.0045	0.0050	0.0001	0.0001
2.6813	0.0045	0.0050	0.0001	0.0001
2.7253	0.0045	0.0051	0.0001	0.0001
2.7692	0.0045	0.0052	0.0001	0.0001
2.8132	0.0045	0.0053	0.0001	0.0001
2.8571	0.0045	0.0054	0.0001	0.0001
2.9011	0.0045	0.0055	0.0001	0.0001
2.9451	0.0045	0.0055	0.0001	0.0001
2.9890	0.0045	0.0056	0.0001	0.0001
3.0000	0.0045	0.0056	0.0001	0.0001

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
3.0000	0.0045	0.0056	0.0000	0.0107	0.0000
3.0440	0.0045	0.0058	0.0000	0.0107	0.0000
3.0879	0.0045	0.0060	0.0000	0.0126	0.0000
3.1319	0.0045	0.0062	0.0000	0.0136	0.0000
3.1758	0.0045	0.0064	0.0000	0.0145	0.0000
3.2198	0.0045	0.0066	0.0000	0.0155	0.0000
3.2637	0.0045	0.0068	0.0000	0.0164	0.0000

3.3077	0.0045	0.0070	0.0000	0.0174	0.0000
3.3516	0.0045	0.0072	0.0000	0.0183	0.0000
3.3956	0.0045	0.0074	0.0000	0.0192	0.0000
3.4396	0.0045	0.0076	0.0000	0.0202	0.0000
3.4835	0.0045	0.0078	0.0000	0.0211	0.0000
3.5275	0.0045	0.0080	0.0003	0.0221	0.0000
3.5714	0.0045	0.0082	0.0004	0.0230	0.0000
3.6154	0.0045	0.0084	0.0004	0.0240	0.0000
3.6593	0.0045	0.0086	0.0004	0.0249	0.0000
3.7033	0.0045	0.0088	0.0005	0.0259	0.0000
3.7473	0.0045	0.0090	0.0005	0.0268	0.0000
3.7912	0.0045	0.0092	0.0006	0.0277	0.0000
3.8352	0.0045	0.0094	0.0006	0.0287	0.0000
3.8791	0.0045	0.0096	0.0006	0.0296	0.0000
3.9231	0.0045	0.0098	0.0007	0.0306	0.0000
3.9670	0.0045	0.0100	0.0007	0.0315	0.0000
4.0000	0.0045	0.0102	0.0008	0.0322	0.0000

Surface etention 3R

Element Flows To:

Outlet 1	Outlet 2
Tank 1	Bioretention 3R

Tank 1

Dimensions

Depth:	2 ft.
Tank Type:	Circular
Diameter:	2 ft.
Length:	195 ft.

Discharge Structure

Riser Height:	1 ft.
Riser Diameter:	12 in.
Orifice 1 Diameter:	0.299 in. Elevation:0 ft.

Element Flows To:

Outlet 1 Outlet 2

Tank Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.000000	0.000000	0.000	0.000
0.0222	0.001877	0.000028	0.000	0.000
0.0444	0.002639	0.000079	0.000	0.000
0.0667	0.003214	0.000144	0.000	0.000
0.0889	0.003690	0.000221	0.000	0.000
0.1111	0.004102	0.000307	0.000	0.000
0.1333	0.004467	0.000403	0.000	0.000
0.1556	0.004796	0.000506	0.001	0.000
0.1778	0.005096	0.000616	0.001	0.000
0.2000	0.005372	0.000732	0.001	0.000
0.2222	0.005627	0.000854	0.001	0.000
0.2444	0.005865	0.000982	0.001	0.000
0.2667	0.006087	0.001115	0.001	0.000
0.2889	0.006295	0.001252	0.001	0.000
0.3111	0.006490	0.001394	0.001	0.000
0.3333	0.006673	0.001541	0.001	0.000
0.3556	0.006846	0.001691	0.001	0.000
0.3778	0.007009	0.001845	0.001	0.000
0.4000	0.007163	0.002002	0.001	0.000
0.4222	0.007308	0.002163	0.001	0.000
0.4444	0.007444	0.002327	0.001	0.000
0.4667	0.007574	0.002494	0.001	0.000
0.4889	0.007695	0.002664	0.001	0.000
0.5111	0.007810	0.002836	0.001	0.000
0.5333	0.007918	0.003011	0.001	0.000
0.5556	0.008020	0.003188	0.001	0.000
0.5778	0.008116	0.003367	0.001	0.000
0.6000	0.008206	0.003548	0.001	0.000
0.6222	0.008290	0.003732	0.001	0.000
0.6444	0.008368	0.003917	0.001	0.000
0.6667	0.008441	0.004104	0.002	0.000
0.6889	0.008509	0.004292	0.002	0.000
0.7111	0.008571	0.004482	0.002	0.000
0.7333	0.008629	0.004673	0.002	0.000
0.7556	0.008682	0.004865	0.002	0.000
0.7778	0.008729	0.005059	0.002	0.000
0.8000	0.008772	0.005253	0.002	0.000
0.8222	0.008811	0.005449	0.002	0.000
0.8444	0.008844	0.005645	0.002	0.000
0.8667	0.008873	0.005842	0.002	0.000

0.8889	0.008898	0.006039	0.002	0.000
0.9111	0.008918	0.006237	0.002	0.000
0.9333	0.008933	0.006435	0.002	0.000
0.9556	0.008944	0.006634	0.002	0.000
0.9778	0.008951	0.006833	0.002	0.000
1.0000	0.008953	0.007032	0.002	0.000
1.0222	0.008951	0.007231	0.037	0.000
1.0444	0.008944	0.007430	0.101	0.000
1.0667	0.008933	0.007628	0.184	0.000
1.0889	0.008918	0.007827	0.282	0.000
1.1111	0.008898	0.008025	0.392	0.000
1.1333	0.008873	0.008222	0.512	0.000
1.1556	0.008844	0.008419	0.639	0.000
1.1778	0.008811	0.008615	0.773	0.000
1.2000	0.008772	0.008810	0.910	0.000
1.2222	0.008729	0.009005	1.048	0.000
1.2444	0.008682	0.009198	1.186	0.000
1.2667	0.008629	0.009391	1.320	0.000
1.2889	0.008571	0.009582	1.450	0.000
1.3111	0.008509	0.009772	1.572	0.000
1.3333	0.008441	0.009960	1.686	0.000
1.3556	0.008368	0.010147	1.789	0.000
1.3778	0.008290	0.010332	1.882	0.000
1.4000	0.008206	0.010515	1.962	0.000
1.4222	0.008116	0.010696	2.032	0.000
1.4444	0.008020	0.010876	2.091	0.000
1.4667	0.007918	0.011053	2.141	0.000
1.4889	0.007810	0.011228	2.185	0.000
1.5111	0.007695	0.011400	2.254	0.000
1.5333	0.007574	0.011570	2.303	0.000
1.5556	0.007444	0.011737	2.350	0.000
1.5778	0.007308	0.011900	2.397	0.000
1.6000	0.007163	0.012061	2.442	0.000
1.6222	0.007009	0.012219	2.487	0.000
1.6444	0.006846	0.012373	2.531	0.000
1.6667	0.006673	0.012523	2.574	0.000
1.6889	0.006490	0.012669	2.617	0.000
1.7111	0.006295	0.012811	2.659	0.000
1.7333	0.006087	0.012949	2.700	0.000
1.7556	0.005865	0.013082	2.741	0.000
1.7778	0.005627	0.013209	2.780	0.000
1.8000	0.005372	0.013332	2.820	0.000
1.8222	0.005096	0.013448	2.859	0.000
1.8444	0.004796	0.013558	2.897	0.000
1.8667	0.004467	0.013661	2.935	0.000
1.8889	0.004102	0.013756	2.972	0.000
1.9111	0.003690	0.013843	3.009	0.000
1.9333	0.003214	0.013920	3.046	0.000
1.9556	0.002639	0.013985	3.082	0.000
1.9778	0.001877	0.014036	3.117	0.000
2.0000	0.000000	0.014064	3.153	0.000
2.0222	0.000000	0.000000	3.187	0.000

Tank 1

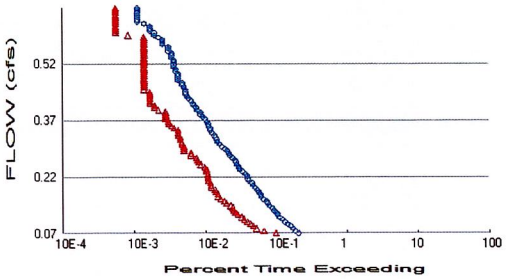
Dimensions
Depth: 2 ft.
Tank Type: Circular
Diameter: 2 ft.
Length: 408 ft.
Discharge Structure
Riser Height: 1 ft.
Riser Diameter: 12 in.
Orifice 1 Diameter: 0.415180Elevation:0 ft.
Element Flows To:
Outlet 1 Outlet 2

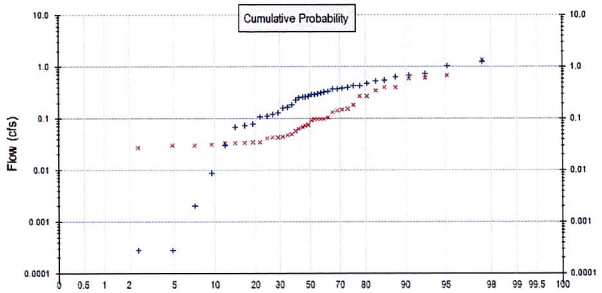
Tank Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.000000	0.000000	0.000	0.000
0.0222	0.003927	0.000058	0.000	0.000
0.0444	0.005523	0.000164	0.001	0.000
0.0667	0.006725	0.000301	0.001	0.000
0.0889	0.007721	0.000462	0.001	0.000
0.1111	0.008582	0.000643	0.001	0.000
0.1333	0.009346	0.000842	0.001	0.000
0.1556	0.010034	0.001058	0.001	0.000
0.1778	0.010662	0.001288	0.002	0.000
0.2000	0.011240	0.001531	0.002	0.000
0.2222	0.011774	0.001787	0.002	0.000
0.2444	0.012272	0.002054	0.002	0.000
0.2667	0.012736	0.002332	0.002	0.000
0.2889	0.013171	0.002620	0.002	0.000
0.3111	0.013579	0.002918	0.002	0.000
0.3333	0.013963	0.003224	0.002	0.000
0.3556	0.014324	0.003538	0.002	0.000
0.3778	0.014665	0.003860	0.002	0.000
0.4000	0.014986	0.004190	0.003	0.000
0.4222	0.015290	0.004526	0.003	0.000
0.4444	0.015576	0.004869	0.003	0.000
0.4667	0.015846	0.005218	0.003	0.000
0.4889	0.016101	0.005573	0.003	0.000
0.5111	0.016341	0.005934	0.003	0.000
0.5333	0.016568	0.006299	0.003	0.000
0.5556	0.016781	0.006670	0.003	0.000
0.5778	0.016981	0.007045	0.003	0.000
0.6000	0.017169	0.007424	0.003	0.000
0.6222	0.017345	0.007808	0.003	0.000
0.6444	0.017509	0.008195	0.003	0.000
0.6667	0.017661	0.008586	0.003	0.000
0.6889	0.017803	0.008980	0.003	0.000
0.7111	0.017934	0.009377	0.003	0.000
0.7333	0.018054	0.009777	0.004	0.000
0.7556	0.018164	0.010180	0.004	0.000
0.7778	0.018264	0.010584	0.004	0.000
0.8000	0.018354	0.010991	0.004	0.000
0.8222	0.018434	0.011400	0.004	0.000
0.8444	0.018505	0.011810	0.004	0.000
0.8667	0.018566	0.012222	0.004	0.000

0.8889	0.018617	0.012636	0.004	0.000
0.9111	0.018659	0.013050	0.004	0.000
0.9333	0.018691	0.013465	0.004	0.000
0.9556	0.018714	0.013880	0.004	0.000
0.9778	0.018728	0.014296	0.004	0.000
1.0000	0.018733	0.014713	0.004	0.000
1.0222	0.018728	0.015129	0.039	0.000
1.0444	0.018714	0.015545	0.104	0.000
1.0667	0.018691	0.015961	0.187	0.000
1.0889	0.018659	0.016376	0.284	0.000
1.1111	0.018617	0.016790	0.394	0.000
1.1333	0.018566	0.017203	0.514	0.000
1.1556	0.018505	0.017615	0.642	0.000
1.1778	0.018434	0.018025	0.775	0.000
1.2000	0.018354	0.018434	0.912	0.000
1.2222	0.018264	0.018841	1.051	0.000
1.2444	0.018164	0.019246	1.188	0.000
1.2667	0.018054	0.019648	1.323	0.000
1.2889	0.017934	0.020048	1.452	0.000
1.3111	0.017803	0.020445	1.575	0.000
1.3333	0.017661	0.020839	1.688	0.000
1.3556	0.017509	0.021230	1.792	0.000
1.3778	0.017345	0.021617	1.884	0.000
1.4000	0.017169	0.022001	1.965	0.000
1.4222	0.016981	0.022380	2.035	0.000
1.4444	0.016781	0.022756	2.093	0.000
1.4667	0.016568	0.023126	2.144	0.000
1.4889	0.016341	0.023492	2.188	0.000
1.5111	0.016101	0.023852	2.257	0.000
1.5333	0.015846	0.024207	2.306	0.000
1.5556	0.015576	0.024556	2.353	0.000
1.5778	0.015290	0.024899	2.400	0.000
1.6000	0.014986	0.025236	2.445	0.000
1.6222	0.014665	0.025565	2.490	0.000
1.6444	0.014324	0.025887	2.534	0.000
1.6667	0.013963	0.026202	2.577	0.000
1.6889	0.013579	0.026508	2.620	0.000
1.7111	0.013171	0.026805	2.662	0.000
1.7333	0.012736	0.027093	2.703	0.000
1.7556	0.012272	0.027371	2.743	0.000
1.7778	0.011774	0.027638	2.783	0.000
1.8000	0.011240	0.027894	2.823	0.000
1.8222	0.010662	0.028137	2.862	0.000
1.8444	0.010034	0.028367	2.900	0.000
1.8667	0.009346	0.028583	2.938	0.000
1.8889	0.008582	0.028782	2.975	0.000
1.9111	0.007721	0.028964	3.012	0.000
1.9333	0.006725	0.029124	3.049	0.000
1.9556	0.005523	0.029261	3.085	0.000
1.9778	0.003927	0.029367	3.121	0.000
2.0000	0.000000	0.029425	3.156	0.000
2.0222	0.000000	0.000000	3.191	0.000

Analysis Results
POC 1





\+ Pre-Project x Mitigated

Pre-Project Landuse Totals for POC #1
Total Pervious Area: 1.77
Total Impervious Area: 0

Mitigated Landuse Totals for POC #1
Total Pervious Area: 0.121
Total Impervious Area: 1.462

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Pre-Project. POC #1

Return Period	Flow(cfs)
2 year	0.273596
5 year	0.455399
10 year	0.673549
25 year	1.072405

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	0.076526
5 year	0.272902
10 year	0.548785
25 year	0.81117

Annual Peaks

Annual Peaks for Pre-Project and Mitigated. POC #1

Year	Pre-Project	Mitigated
1964	0.293	0.056
1965	0.227	0.149
1966	0.009	0.031
1967	0.688	0.596
1968	0.073	0.045
1969	0.628	0.135
1970	0.371	0.156
1971	0.379	0.274
1972	0.002	0.034
1973	0.723	0.069
1974	0.119	0.034
1975	0.000	0.027
1976	0.000	0.030
1977	0.000	0.021

1978	0.334	0.104
1979	0.297	0.096
1980	0.292	0.077
1981	0.030	0.064
1982	0.425	0.680
1983	0.553	0.185
1984	0.322	0.093
1985	0.069	0.035
1986	0.476	0.601
1987	0.183	0.074
1988	0.126	0.034
1989	0.257	0.030
1990	0.253	0.043
1991	0.158	0.049
1992	0.309	0.098
1993	0.274	0.097
1994	0.106	0.033
1995	1.236	1.368
1996	0.538	0.346
1997	1.034	0.396
1998	0.396	0.271
1999	0.380	0.143
2000	0.428	0.399
2001	0.112	0.041
2002	0.167	0.043
2003	0.078	0.097
2004	0.263	0.047

Ranked Annual Peaks

Ranked Annual Peaks for Pre-Project and Mitigated. POC #1

Rank	Pre-Project	Mitigated
1	1.2362	1.3675
2	1.0339	0.6803
3	0.7231	0.6012
4	0.6877	0.5955
5	0.6284	0.3992
6	0.5530	0.3956
7	0.5380	0.3464
8	0.4760	0.2742
9	0.4279	0.2711
10	0.4252	0.1852
11	0.3955	0.1555
12	0.3804	0.1490
13	0.3788	0.1426
14	0.3714	0.1352
15	0.3343	0.1037
16	0.3219	0.0978
17	0.3095	0.0972
18	0.2972	0.0966
19	0.2929	0.0960
20	0.2917	0.0934
21	0.2736	0.0765
22	0.2627	0.0737
23	0.2575	0.0691
24	0.2529	0.0637
25	0.2268	0.0561
26	0.1833	0.0487
27	0.1671	0.0472

28	0.1579	0.0449
29	0.1264	0.0430
30	0.1186	0.0429
31	0.1117	0.0413
32	0.1062	0.0346
33	0.0782	0.0342
34	0.0731	0.0338
35	0.0688	0.0336
36	0.0301	0.0330
37	0.0087	0.0310
38	0.0021	0.0303
39	0.0003	0.0302
40	0.0003	0.0273
41	0.0002	0.0206

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0684	731	357	48	Pass
0.0745	671	239	35	Pass
0.0806	617	188	30	Pass
0.0867	572	168	29	Pass
0.0928	516	153	29	Pass
0.0990	472	139	29	Pass
0.1051	436	126	28	Pass
0.1112	397	116	29	Pass
0.1173	377	103	27	Pass
0.1234	357	95	26	Pass
0.1295	333	89	26	Pass
0.1356	317	87	27	Pass
0.1418	293	81	27	Pass
0.1479	271	71	26	Pass
0.1540	259	66	25	Pass
0.1601	234	59	25	Pass
0.1662	221	54	24	Pass
0.1723	214	54	25	Pass
0.1784	202	51	25	Pass
0.1845	190	49	25	Pass
0.1907	179	44	24	Pass
0.1968	167	43	25	Pass
0.2029	160	42	26	Pass
0.2090	147	40	27	Pass
0.2151	142	39	27	Pass
0.2212	138	39	28	Pass
0.2273	130	39	30	Pass
0.2334	119	37	31	Pass
0.2396	108	37	34	Pass
0.2457	105	35	33	Pass
0.2518	99	31	31	Pass
0.2579	97	29	29	Pass
0.2640	93	28	30	Pass
0.2701	87	27	31	Pass
0.2762	80	23	28	Pass
0.2823	77	23	29	Pass
0.2885	73	18	24	Pass
0.2946	68	18	26	Pass
0.3007	62	18	29	Pass
0.3068	57	17	29	Pass
0.3129	54	17	31	Pass
0.3190	52	16	30	Pass
0.3251	50	16	32	Pass
0.3312	48	15	31	Pass
0.3374	44	15	34	Pass
0.3435	42	15	35	Pass
0.3496	42	13	30	Pass
0.3557	40	12	30	Pass
0.3618	39	11	28	Pass
0.3679	38	11	28	Pass
0.3740	35	10	28	Pass
0.3801	33	10	30	Pass
0.3863	31	10	32	Pass

0.3924	31	10	32	Pass
0.3985	28	8	28	Pass
0.4046	27	7	25	Pass
0.4107	25	7	28	Pass
0.4168	24	6	25	Pass
0.4229	23	6	26	Pass
0.4290	21	6	28	Pass
0.4352	20	6	30	Pass
0.4413	19	6	31	Pass
0.4474	19	6	31	Pass
0.4535	19	5	26	Pass
0.4596	18	5	27	Pass
0.4657	17	5	29	Pass
0.4718	17	5	29	Pass
0.4779	15	5	33	Pass
0.4841	15	5	33	Pass
0.4902	15	5	33	Pass
0.4963	15	5	33	Pass
0.5024	14	5	35	Pass
0.5085	14	5	35	Pass
0.5146	13	5	38	Pass
0.5207	13	5	38	Pass
0.5268	13	5	38	Pass
0.5330	13	5	38	Pass
0.5391	12	5	41	Pass
0.5452	12	5	41	Pass
0.5513	12	5	41	Pass
0.5574	11	5	45	Pass
0.5635	11	5	45	Pass
0.5696	11	5	45	Pass
0.5757	9	5	55	Pass
0.5819	9	5	55	Pass
0.5880	9	5	55	Pass
0.5941	8	5	62	Pass
0.6002	7	3	42	Pass
0.6063	7	2	28	Pass
0.6124	6	2	33	Pass
0.6185	6	2	33	Pass
0.6246	6	2	33	Pass
0.6308	5	2	40	Pass
0.6369	4	2	50	Pass
0.6430	4	2	50	Pass
0.6491	4	2	50	Pass
0.6552	4	2	50	Pass
0.6613	4	2	50	Pass
0.6674	4	2	50	Pass
0.6735	4	2	50	Pass

Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

No PERLND changes have been made.

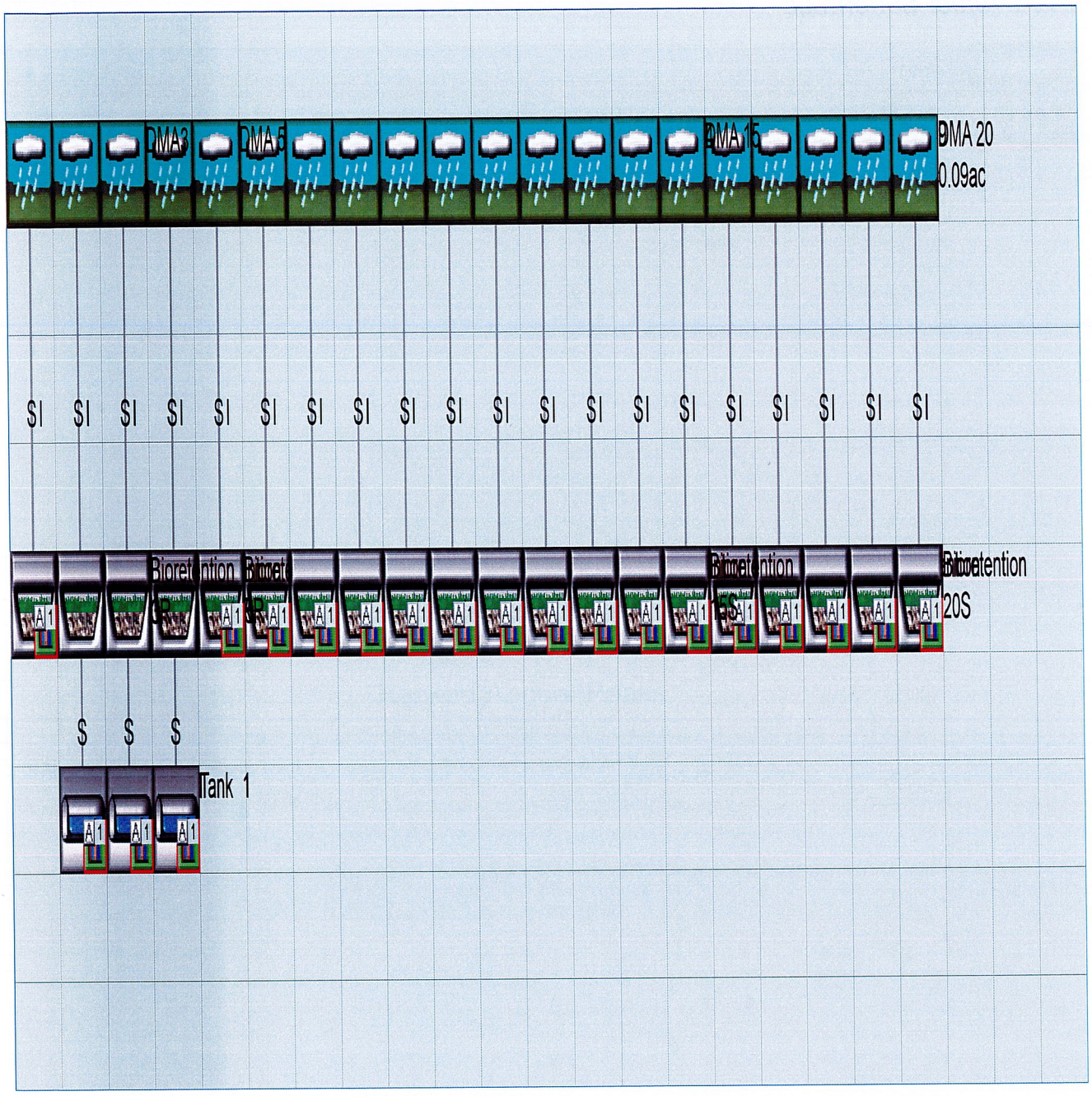
IMPLND Changes

No IMPLND changes have been made.

Appendix
Pre-Project Schematic



Mitigated Schematic



```
RUN

GLOBAL
  WWHM4 model simulation
  START       1963 10 01         END    2004 09 30
  RUN INTERP OUTPUT LEVEL    3    0
  RESUME     0 RUN     1                    UNIT SYSTEM     1
END GLOBAL

FILES
<File>  <Un#>   <-----------File Name------------------------------>***
<-ID->                                                               ***
WDM         26   Florinian Townhomes 15may2023.wdm
MESSU       25   MitFlorinian Townhomes 15may2023.MES
            27   MitFlorinian Townhomes 15may2023.L61
            28   MitFlorinian Townhomes 15may2023.L62
            30   POCFlorinian Townhomes 15may20231.dat
END FILES

OPN SEQUENCE
    INGRP               INDELT 00:60
      IMPLND        1
      PERLND       49
      PERLND       33
      GENER         2
      RCHRES        1
      RCHRES        2
      GENER         4
      RCHRES        3
      RCHRES        4
      GENER         6
      RCHRES        5
      RCHRES        6
      GENER         8
      RCHRES        7
      RCHRES        8
      GENER        10
      RCHRES        9
      RCHRES       10
      GENER        12
      RCHRES       11
      RCHRES       12
      GENER        14
      RCHRES       13
      RCHRES       14
      GENER        16
      RCHRES       15
      RCHRES       16
      GENER        18
      RCHRES       17
      RCHRES       18
      GENER        20
      RCHRES       19
      RCHRES       20
      GENER        22
      RCHRES       21
      RCHRES       22
      GENER        24
      RCHRES       23
      RCHRES       24
      GENER        26
      RCHRES       25
      RCHRES       26
      GENER        28
      RCHRES       27
      RCHRES       28
      GENER        30
      RCHRES       29
```

```
      RCHRES      30
      GENER       32
      RCHRES      31
      RCHRES      32
      GENER       34
      RCHRES      33
      RCHRES      34
      GENER       36
      RCHRES      35
      RCHRES      36
      GENER       38
      RCHRES      37
      RCHRES      38
      GENER       40
      RCHRES      39
      RCHRES      40
      RCHRES      41
      RCHRES      42
      RCHRES      43
      COPY         1
      COPY       501
      DISPLY       1
    END INGRP
END OPN SEQUENCE
DISPLY
  DISPLY-INFO1
    # -  #<----------Title----------->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
    1        Surface ntion  DMA1R        MAX                    1    2   30    9
  END DISPLY-INFO1
END DISPLY
COPY
  TIMESERIES
    # -  #  NPT  NMN ***
    1          1    1
  501          1    1
  END TIMESERIES
END COPY
GENER
  OPCODE
    #    # OPCD ***
    2         24
    4         24
    6         24
    8         24
   10         24
   12         24
   14         24
   16         24
   18         24
   20         24
   22         24
   24         24
   26         24
   28         24
   30         24
   32         24
   34         24
   36         24
   38         24
   40         24
  END OPCODE
  PARM
    #    #         K ***
    2              0.
    4              0.
    6              0.
    8              0.
   10              0.
   12              0.
   14              0.
```

```
   16              0.
   18              0.
   20              0.
   22              0.
   24              0.
   26              0.
   28              0.
   30              0.
   32              0.
   34              0.
   36              0.
   38              0.
   40              0.
  END PARM
END GENER
PERLND
  GEN-INFO
    <PLS ><-------Name------->NBLKS   Unit-systems   Printer ***
    # -  #                        User  t-series Engl Metr ***
                                      in  out           ***
   49     D,Grass,Flat(0-1%)       1    1    1    1   27    0
   33     C,Grass,Flat(0-1%)       1    1    1    1   27    0
  END GEN-INFO
  *** Section PWATER***

  ACTIVITY
    <PLS > ************* Active Sections ******************************
    # -  # ATMP SNOW PWAT  SED  PST  PWG PQAL MSTL PEST NITR PHOS TRAC ***
   49         0    0    1    0    0    0    0    0    0    0    0    0
   33         0    0    1    0    0    0    0    0    0    0    0    0
  END ACTIVITY

  PRINT-INFO
    <PLS > ***************** Print-flags ***************************** PIVL  PYR
    # -  # ATMP SNOW PWAT  SED  PST  PWG PQAL MSTL PEST NITR PHOS TRAC  *********
   49         0    0    4    0    0    0    0    0    0    0    0    0    1    9
   33         0    0    4    0    0    0    0    0    0    0    0    0    1    9
  END PRINT-INFO

  PWAT-PARM1
    <PLS >  PWATER variable monthly parameter value flags  ***
    # -  # CSNO RTOP UZFG  VCS  VUZ  VNN VIFW VIRC  VLE INFC  HWT ***
   49         0    0    0    1    0    0    0    0    1    0    0
   33         0    0    0    1    0    0    0    0    1    0    0
  END PWAT-PARM1

  PWAT-PARM2
    <PLS >      PWATER input info: Part 2          ***
    # -  # ***FOREST      LZSN    INFILT      LSUR     SLSUR      KVARY      AGWRC
   49              0       4.4      0.03       400      0.01          3       0.92
   33              0       4.5     0.045       400      0.01          3       0.92
  END PWAT-PARM2

  PWAT-PARM3
    <PLS >      PWATER input info: Part 3          ***
    # -  # ***PETMAX    PETMIN    INFEXP    INFILD    DEEPFR    BASETP    AGWETP
   49             40        35         2         2         0         0      0.05
   33             40        35         2         2         0         0      0.05
  END PWAT-PARM3
  PWAT-PARM4
    <PLS >     PWATER input info: Part 4                                  ***
    # -  #     CEPSC      UZSN      NSUR     INTFW       IRC     LZETP ***
   49              0       0.3      0.25       0.7       0.5         0
   33              0       0.3      0.25       0.7       0.5         0
  END PWAT-PARM4
  MON-LZETPARM
    <PLS >      PWATER input info: Part 3          ***
    # -  #  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC  ***
   49       0.4  0.4  0.4 0.45  0.5 0.55 0.55 0.55 0.55 0.55 0.45  0.4
   33       0.4  0.4  0.4 0.45  0.5 0.55 0.55 0.55 0.55 0.55 0.45  0.4
```

```
  END MON-LZETPARM
  MON-INTERCEP
    <PLS >       PWATER input info: Part 3          ***
    # -  #  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC  ***
   49      0.12 0.12 0.12 0.11  0.1  0.1  0.1  0.1  0.1  0.1 0.11 0.12
   33      0.12 0.12 0.12 0.11  0.1  0.1  0.1  0.1  0.1  0.1 0.11 0.12
  END MON-INTERCEP

  PWAT-STATE1
    <PLS > *** Initial conditions at start of simulation
               ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
    # -  # ***  CEPS      SURS       UZS       IFWS       LZS       AGWS       GWVS
   49             0         0      0.15          0         4       0.05          0
   33             0         0      0.15          0         4       0.05          0
  END PWAT-STATE1

END PERLND

IMPLND
  GEN-INFO
    <PLS ><-------Name------->   Unit-systems   Printer ***
    # -  #                     User  t-series Engl Metr ***
                                      in  out           ***
    1     Imperv,Flat(0-1%)       1    1    1   27    0
  END GEN-INFO
  *** Section IWATER***

  ACTIVITY
    <PLS > ************* Active Sections ******************************
    # -  # ATMP SNOW IWAT  SLD  IWG IQAL   ***
    1         0    0    1    0    0    0
  END ACTIVITY

  PRINT-INFO
    <ILS > ******** Print-flags ******** PIVL  PYR
    # -  # ATMP SNOW IWAT  SLD  IWG IQAL    *********
    1         0    0    4    0    0    0    1    9
  END PRINT-INFO

  IWAT-PARM1
    <PLS >  IWATER variable monthly parameter value flags  ***
    # -  # CSNO RTOP  VRS  VNN RTLI     ***
    1         0    0    0    0    0
  END IWAT-PARM1

  IWAT-PARM2
    <PLS >       IWATER input info: Part 2          ***
    # -  # ***  LSUR      SLSUR      NSUR      RETSC
    1            100       0.01      0.05        0.1
  END IWAT-PARM2

  IWAT-PARM3
    <PLS >       IWATER input info: Part 3          ***
    # -  # ***PETMAX    PETMIN
    1              0         0
  END IWAT-PARM3

  IWAT-STATE1
    <PLS > *** Initial conditions at start of simulation
    # -  # ***  RETS      SURS
    1              0         0
  END IWAT-STATE1

END IMPLND

SCHEMATIC
<-Source->                 <--Area-->      <-Target->   MBLK    ***
<Name>   #                 <-factor->      <Name>   #   Tbl#    ***
Basin  1***
IMPLND   1                      0.124      RCHRES   1      5
```

```
Basin  2***
IMPLND    1                    0.112     RCHRES    3       5
DMA 16***
PERLND   49                   0.0392     RCHRES    5       2
PERLND   49                   0.0392     RCHRES    5       3
PERLND   33                   0.0008     RCHRES    5       2
PERLND   33                   0.0008     RCHRES    5       3
IMPLND    1                    0.048     RCHRES    5       5
DMA 6***
IMPLND    1                    0.127     RCHRES    7       5
DMA 17***
PERLND   49                    0.002     RCHRES    9       2
PERLND   49                    0.002     RCHRES    9       3
IMPLND    1                    0.053     RCHRES    9       5
DMA 4***
IMPLND    1                    0.182     RCHRES   11       5
DMA 5***
IMPLND    1                    0.054     RCHRES   13       5
DMA 7***
IMPLND    1                    0.012     RCHRES   15       5
DMA 8***
PERLND   33                    0.002     RCHRES   17       2
PERLND   33                    0.002     RCHRES   17       3
PERLND   49                    0.002     RCHRES   17       2
PERLND   49                    0.002     RCHRES   17       3
IMPLND    1                     0.18     RCHRES   17       5
DMA 9***
IMPLND    1                     0.01     RCHRES   19       5
DMA 10***
IMPLND    1                    0.038     RCHRES   21       5
DMA 11***
IMPLND    1                    0.035     RCHRES   23       5
DMA 12***
IMPLND    1                    0.057     RCHRES   25       5
DMA 13***
IMPLND    1                    0.053     RCHRES   27       5
DMA 14***
IMPLND    1                    0.057     RCHRES   29       5
DMA 15***
IMPLND    1                    0.052     RCHRES   31       5
DMA 18***
PERLND   49                    0.006     RCHRES   33       2
PERLND   49                    0.006     RCHRES   33       3
PERLND   33                    0.015     RCHRES   33       2
PERLND   33                    0.015     RCHRES   33       3
IMPLND    1                    0.042     RCHRES   33       5
DMA 19***
PERLND   49                     0.01     RCHRES   35       2
PERLND   49                     0.01     RCHRES   35       3
PERLND   33                    0.016     RCHRES   35       2
PERLND   33                    0.016     RCHRES   35       3
IMPLND    1                    0.063     RCHRES   35       5
DMA 20***
PERLND   49                    0.008     RCHRES   37       2
PERLND   49                    0.008     RCHRES   37       3
PERLND   33                     0.02     RCHRES   37       2
PERLND   33                     0.02     RCHRES   37       3
IMPLND    1                    0.066     RCHRES   37       5
DMA3***
IMPLND    1                    0.097     RCHRES   39       5

******Routing******
IMPLND    1                    0.124     COPY      1      15
RCHRES    1                        1     RCHRES    2       8
RCHRES    4                        1     RCHRES   41       7
RCHRES    4                              COPY      1      17
RCHRES    3                        1     RCHRES   41       7
RCHRES    3                              COPY      1      17
RCHRES    3                        1     RCHRES    4       8
PERLND   49                   0.0392     COPY      1      12
```

PERLND	33	0.0008	COPY	1	12
IMPLND	1	0.048	COPY	1	15
PERLND	49	0.0392	COPY	1	13
PERLND	33	0.0008	COPY	1	13
RCHRES	5	1	RCHRES	6	8
IMPLND	1	0.127	COPY	1	15
RCHRES	7	1	RCHRES	8	8
PERLND	49	0.002	COPY	1	12
IMPLND	1	0.053	COPY	1	15
PERLND	49	0.002	COPY	1	13
RCHRES	9	1	RCHRES	10	8
IMPLND	1	0.054	COPY	1	15
IMPLND	1	0.012	COPY	1	15
PERLND	33	0.002	COPY	1	12
PERLND	49	0.002	COPY	1	12
IMPLND	1	0.18	COPY	1	15
PERLND	33	0.002	COPY	1	13
PERLND	49	0.002	COPY	1	13
IMPLND	1	0.01	COPY	1	15
IMPLND	1	0.038	COPY	1	15
IMPLND	1	0.035	COPY	1	15
IMPLND	1	0.057	COPY	1	15
IMPLND	1	0.053	COPY	1	15
IMPLND	1	0.057	COPY	1	15
IMPLND	1	0.052	COPY	1	15
PERLND	49	0.006	COPY	1	12
PERLND	33	0.015	COPY	1	12
IMPLND	1	0.042	COPY	1	15
PERLND	49	0.006	COPY	1	13
PERLND	33	0.015	COPY	1	13
PERLND	49	0.01	COPY	1	12
PERLND	33	0.016	COPY	1	12
IMPLND	1	0.063	COPY	1	15
PERLND	49	0.01	COPY	1	13
PERLND	33	0.016	COPY	1	13
PERLND	49	0.008	COPY	1	12
PERLND	33	0.02	COPY	1	12
IMPLND	1	0.066	COPY	1	15
PERLND	49	0.008	COPY	1	13
PERLND	33	0.02	COPY	1	13
RCHRES	12	1	RCHRES	43	7
RCHRES	12		COPY	1	17
RCHRES	11	1	RCHRES	43	7
RCHRES	11		COPY	1	17
RCHRES	11	1	RCHRES	12	8
RCHRES	13	1	RCHRES	14	8
RCHRES	15	1	RCHRES	16	8
RCHRES	17	1	RCHRES	18	8
RCHRES	19	1	RCHRES	20	8
RCHRES	21	1	RCHRES	22	8
RCHRES	23	1	RCHRES	24	8
RCHRES	25	1	RCHRES	26	8
RCHRES	27	1	RCHRES	28	8
RCHRES	29	1	RCHRES	30	8
RCHRES	31	1	RCHRES	32	8
RCHRES	33	1	RCHRES	34	8
RCHRES	35	1	RCHRES	36	8
RCHRES	37	1	RCHRES	38	8
RCHRES	40	1	RCHRES	42	7
RCHRES	40		COPY	1	17
RCHRES	39	1	RCHRES	42	7
RCHRES	39		COPY	1	17
RCHRES	39	1	RCHRES	40	8
RCHRES	2	1	COPY	501	17
RCHRES	1	1	COPY	501	17
RCHRES	6	1	COPY	501	17
RCHRES	5	1	COPY	501	17
RCHRES	41	1	COPY	501	16
RCHRES	8	1	COPY	501	17
RCHRES	7	1	COPY	501	17

```
RCHRES  10                              1     COPY   501     17
RCHRES   9                              1     COPY   501     17
RCHRES  14                              1     COPY   501     17
RCHRES  13                              1     COPY   501     17
RCHRES  16                              1     COPY   501     17
RCHRES  15                              1     COPY   501     17
RCHRES  18                              1     COPY   501     17
RCHRES  17                              1     COPY   501     17
RCHRES  20                              1     COPY   501     17
RCHRES  19                              1     COPY   501     17
RCHRES  22                              1     COPY   501     17
RCHRES  21                              1     COPY   501     17
RCHRES  24                              1     COPY   501     17
RCHRES  23                              1     COPY   501     17
RCHRES  26                              1     COPY   501     17
RCHRES  25                              1     COPY   501     17
RCHRES  28                              1     COPY   501     17
RCHRES  27                              1     COPY   501     17
RCHRES  30                              1     COPY   501     17
RCHRES  29                              1     COPY   501     17
RCHRES  32                              1     COPY   501     17
RCHRES  31                              1     COPY   501     17
RCHRES  34                              1     COPY   501     17
RCHRES  33                              1     COPY   501     17
RCHRES  36                              1     COPY   501     17
RCHRES  35                              1     COPY   501     17
RCHRES  38                              1     COPY   501     17
RCHRES  37                              1     COPY   501     17
RCHRES  42                              1     COPY   501     16
RCHRES  43                              1     COPY   501     16
END SCHEMATIC

NETWORK
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   #        <Name> # #<-factor->strg <Name>   #   #        <Name> # #  ***
COPY   501 OUTPUT MEAN   1 1   12.1        DISPLY   1     INPUT  TIMSER 1
GENER    2 OUTPUT TIMSER       .0002778    RCHRES   1     EXTNL  OUTDGT 1
GENER    4 OUTPUT TIMSER       .0002778    RCHRES   3     EXTNL  OUTDGT 1
GENER    6 OUTPUT TIMSER       .0002778    RCHRES   5     EXTNL  OUTDGT 1
GENER    8 OUTPUT TIMSER       .0002778    RCHRES   7     EXTNL  OUTDGT 1
GENER   10 OUTPUT TIMSER       .0002778    RCHRES   9     EXTNL  OUTDGT 1
GENER   12 OUTPUT TIMSER       .0002778    RCHRES  11     EXTNL  OUTDGT 1
GENER   14 OUTPUT TIMSER       .0002778    RCHRES  13     EXTNL  OUTDGT 1
GENER   16 OUTPUT TIMSER       .0002778    RCHRES  15     EXTNL  OUTDGT 1
GENER   18 OUTPUT TIMSER       .0002778    RCHRES  17     EXTNL  OUTDGT 1
GENER   20 OUTPUT TIMSER       .0002778    RCHRES  19     EXTNL  OUTDGT 1
GENER   22 OUTPUT TIMSER       .0002778    RCHRES  21     EXTNL  OUTDGT 1
GENER   24 OUTPUT TIMSER       .0002778    RCHRES  23     EXTNL  OUTDGT 1
GENER   26 OUTPUT TIMSER       .0002778    RCHRES  25     EXTNL  OUTDGT 1
GENER   28 OUTPUT TIMSER       .0002778    RCHRES  27     EXTNL  OUTDGT 1
GENER   30 OUTPUT TIMSER       .0002778    RCHRES  29     EXTNL  OUTDGT 1
GENER   32 OUTPUT TIMSER       .0002778    RCHRES  31     EXTNL  OUTDGT 1
GENER   34 OUTPUT TIMSER       .0002778    RCHRES  33     EXTNL  OUTDGT 1
GENER   36 OUTPUT TIMSER       .0002778    RCHRES  35     EXTNL  OUTDGT 1
GENER   38 OUTPUT TIMSER       .0002778    RCHRES  37     EXTNL  OUTDGT 1
GENER   40 OUTPUT TIMSER       .0002778    RCHRES  39     EXTNL  OUTDGT 1


<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   #        <Name> # #<-factor->strg <Name>   #   #        <Name> # #  ***
END NETWORK

RCHRES
  GEN-INFO
    RCHRES       Name        Nexits   Unit Systems   Printer                ***
    # -  #<------------------><---> User T-series  Engl Metr LKFG           ***
                                       in  out                              ***
    1     Surface ntion  D-007    2    1    1    1   28    0    1
    2     Bioretention  DM-006    2    1    1    1   28    0    1
```

```
  3     Surface DMA 2R          2    1    1    1   28    0    1
  4     DMA 2R                  2    1    1    1   28    0    1
  5     Surface tention -016    2    1    1    1   28    0    1
  6     Bioretention  16-015    2    1    1    1   28    0    1
  7     Surface etention-023    2    1    1    1   28    0    1
  8     Bioretention  6R-022    2    1    1    1   28    0    1
  9     Surface ention  -027    2    1    1    1   28    0    1
 10     Bioretention  17-026    2    1    1    1   28    0    1
 11     Surface ntion  D-058    2    1    1    1   28    0    1
 12     Bioretention  DM-057    2    1    1    1   28    0    1
 13     Surface etention-060    2    1    1    1   28    0    1
 14     Bioretention  5R-059    2    1    1    1   28    0    1
 15     Surface etention-062    2    1    1    1   28    0    1
 16     Bioretention  7R-061    2    1    1    1   28    0    1
 17     Surface etention-064    2    1    1    1   28    0    1
 18     Bioretention  8R-063    2    1    1    1   28    0    1
 19     Surface etention-066    2    1    1    1   28    0    1
 20     Bioretention  9R-065    2    1    1    1   28    0    1
 21     Surface tention -068    2    1    1    1   28    0    1
 22     Bioretention  10-067    2    1    1    1   28    0    1
 23     Surface tention -070    2    1    1    1   28    0    1
 24     Bioretention  11-069    2    1    1    1   28    0    1
 25     Surface tion  DM-072    2    1    1    1   28    0    1
 26     Bioretention  DM-071    2    1    1    1   28    0    1
 27     Surface tention -074    2    1    1    1   28    0    1
 28     Bioretention  13-073    2    1    1    1   28    0    1
 29     Surface tention -076    2    1    1    1   28    0    1
 30     Bioretention  14-075    2    1    1    1   28    0    1
 31     Surface tention -078    2    1    1    1   28    0    1
 32     Bioretention  15-077    2    1    1    1   28    0    1
 33     Surface tention -080    2    1    1    1   28    0    1
 34     Bioretention  18-079    2    1    1    1   28    0    1
 35     Surface tention -082    2    1    1    1   28    0    1
 36     Bioretention  19-081    2    1    1    1   28    0    1
 37     Surface tention -084    2    1    1    1   28    0    1
 38     Bioretention  20-083    2    1    1    1   28    0    1
 39     Surface etention-087    2    1    1    1   28    0    1
 40     Bioretention  3R-086    2    1    1    1   28    0    1
 41     Tank  1                 1    1    1    1   28    0    1
 42     Tank  1                 1    1    1    1   28    0    1
 43     Tank  1                 1    1    1    1   28    0    1
END GEN-INFO
*** Section RCHRES***

ACTIVITY
  <PLS > ************ Active Sections ******************************
  # -  # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFG PKFG PHFG ***
  1         1    0    0    0    0    0    0    0    0    0
  2         1    0    0    0    0    0    0    0    0    0
  3         1    0    0    0    0    0    0    0    0    0
  4         1    0    0    0    0    0    0    0    0    0
  5         1    0    0    0    0    0    0    0    0    0
  6         1    0    0    0    0    0    0    0    0    0
  7         1    0    0    0    0    0    0    0    0    0
  8         1    0    0    0    0    0    0    0    0    0
  9         1    0    0    0    0    0    0    0    0    0
 10         1    0    0    0    0    0    0    0    0    0
 11         1    0    0    0    0    0    0    0    0    0
 12         1    0    0    0    0    0    0    0    0    0
 13         1    0    0    0    0    0    0    0    0    0
 14         1    0    0    0    0    0    0    0    0    0
 15         1    0    0    0    0    0    0    0    0    0
 16         1    0    0    0    0    0    0    0    0    0
 17         1    0    0    0    0    0    0    0    0    0
 18         1    0    0    0    0    0    0    0    0    0
 19         1    0    0    0    0    0    0    0    0    0
 20         1    0    0    0    0    0    0    0    0    0
 21         1    0    0    0    0    0    0    0    0    0
 22         1    0    0    0    0    0    0    0    0    0
 23         1    0    0    0    0    0    0    0    0    0
```

```
 24          1     0     0     0     0     0     0     0     0     0
 25          1     0     0     0     0     0     0     0     0     0
 26          1     0     0     0     0     0     0     0     0     0
 27          1     0     0     0     0     0     0     0     0     0
 28          1     0     0     0     0     0     0     0     0     0
 29          1     0     0     0     0     0     0     0     0     0
 30          1     0     0     0     0     0     0     0     0     0
 31          1     0     0     0     0     0     0     0     0     0
 32          1     0     0     0     0     0     0     0     0     0
 33          1     0     0     0     0     0     0     0     0     0
 34          1     0     0     0     0     0     0     0     0     0
 35          1     0     0     0     0     0     0     0     0     0
 36          1     0     0     0     0     0     0     0     0     0
 37          1     0     0     0     0     0     0     0     0     0
 38          1     0     0     0     0     0     0     0     0     0
 39          1     0     0     0     0     0     0     0     0     0
 40          1     0     0     0     0     0     0     0     0     0
 41          1     0     0     0     0     0     0     0     0     0
 42          1     0     0     0     0     0     0     0     0     0
 43          1     0     0     0     0     0     0     0     0     0
END ACTIVITY

PRINT-INFO
  <PLS > ***************** Print-flags ******************** PIVL  PYR
  # -   # HYDR ADCA CONS HEAT  SED  GQL OXRX NUTR PLNK PHCB PIVL  PYR  *********
  1           4    0    0    0    0    0    0    0    0    0    1    9
  2           4    0    0    0    0    0    0    0    0    0    1    9
  3           4    0    0    0    0    0    0    0    0    0    1    9
  4           4    0    0    0    0    0    0    0    0    0    1    9
  5           4    0    0    0    0    0    0    0    0    0    1    9
  6           4    0    0    0    0    0    0    0    0    0    1    9
  7           4    0    0    0    0    0    0    0    0    0    1    9
  8           4    0    0    0    0    0    0    0    0    0    1    9
  9           4    0    0    0    0    0    0    0    0    0    1    9
 10           4    0    0    0    0    0    0    0    0    0    1    9
 11           4    0    0    0    0    0    0    0    0    0    1    9
 12           4    0    0    0    0    0    0    0    0    0    1    9
 13           4    0    0    0    0    0    0    0    0    0    1    9
 14           4    0    0    0    0    0    0    0    0    0    1    9
 15           4    0    0    0    0    0    0    0    0    0    1    9
 16           4    0    0    0    0    0    0    0    0    0    1    9
 17           4    0    0    0    0    0    0    0    0    0    1    9
 18           4    0    0    0    0    0    0    0    0    0    1    9
 19           4    0    0    0    0    0    0    0    0    0    1    9
 20           4    0    0    0    0    0    0    0    0    0    1    9
 21           4    0    0    0    0    0    0    0    0    0    1    9
 22           4    0    0    0    0    0    0    0    0    0    1    9
 23           4    0    0    0    0    0    0    0    0    0    1    9
 24           4    0    0    0    0    0    0    0    0    0    1    9
 25           4    0    0    0    0    0    0    0    0    0    1    9
 26           4    0    0    0    0    0    0    0    0    0    1    9
 27           4    0    0    0    0    0    0    0    0    0    1    9
 28           4    0    0    0    0    0    0    0    0    0    1    9
 29           4    0    0    0    0    0    0    0    0    0    1    9
 30           4    0    0    0    0    0    0    0    0    0    1    9
 31           4    0    0    0    0    0    0    0    0    0    1    9
 32           4    0    0    0    0    0    0    0    0    0    1    9
 33           4    0    0    0    0    0    0    0    0    0    1    9
 34           4    0    0    0    0    0    0    0    0    0    1    9
 35           4    0    0    0    0    0    0    0    0    0    1    9
 36           4    0    0    0    0    0    0    0    0    0    1    9
 37           4    0    0    0    0    0    0    0    0    0    1    9
 38           4    0    0    0    0    0    0    0    0    0    1    9
 39           4    0    0    0    0    0    0    0    0    0    1    9
 40           4    0    0    0    0    0    0    0    0    0    1    9
 41           4    0    0    0    0    0    0    0    0    0    1    9
 42           4    0    0    0    0    0    0    0    0    0    1    9
 43           4    0    0    0    0    0    0    0    0    0    1    9
END PRINT-INFO
```

HYDR-PARM1

RCHRES # - #	Flags for each HYDR Section VC FG	A1 FG	A2 FG	A3 FG	ODFVFG for each *** possible *	*	*	exit *	*	ODGTFG for each *** possible *	*	*	exit *	*	FUNCT for each possible ***	*	*	exit *	*
1	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
2	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
3	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
4	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
5	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
6	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
7	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
8	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
9	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
10	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
11	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
12	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
13	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
14	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
15	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
16	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
17	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
18	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
19	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
20	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
21	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
22	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
23	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
24	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
25	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
26	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
27	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
28	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
29	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
30	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
31	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
32	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
33	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
34	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
35	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
36	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
37	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
38	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
39	0	1	0	0	4	5	0	0	0	0	1	0	0	0	2	1	2	2	2
40	0	1	0	0	4	5	0	0	0	0	0	0	0	0	2	2	2	2	2
41	0	1	0	0	4	0	0	0	0	0	0	0	0	0	2	2	2	2	2
42	0	1	0	0	4	0	0	0	0	0	0	0	0	0	2	2	2	2	2
43	0	1	0	0	4	0	0	0	0	0	0	0	0	0	2	2	2	2	2

END HYDR-PARM1

HYDR-PARM2

# - #	FTABNO	LEN	DELTH	STCOR	KS	DB50	***
1	1	0.01	0.0	0.0	0.0	0.0	
2	2	0.01	0.0	0.0	0.0	0.0	
3	3	0.01	0.0	0.0	0.0	0.0	
4	4	0.01	0.0	0.0	0.0	0.0	
5	5	0.01	0.0	0.0	0.0	0.0	
6	6	0.01	0.0	0.0	0.0	0.0	
7	7	0.01	0.0	0.0	0.0	0.0	
8	8	0.01	0.0	0.0	0.0	0.0	
9	9	0.01	0.0	0.0	0.0	0.0	
10	10	0.01	0.0	0.0	0.0	0.0	
11	11	0.01	0.0	0.0	0.0	0.0	
12	12	0.01	0.0	0.0	0.0	0.0	
13	13	0.01	0.0	0.0	0.0	0.0	
14	14	0.01	0.0	0.0	0.0	0.0	
15	15	0.01	0.0	0.0	0.0	0.0	
16	16	0.01	0.0	0.0	0.0	0.0	
17	17	0.01	0.0	0.0	0.0	0.0	

18	18	0.01	0.0	0.0	0.0	0.0
19	19	0.01	0.0	0.0	0.0	0.0
20	20	0.01	0.0	0.0	0.0	0.0
21	21	0.01	0.0	0.0	0.0	0.0
22	22	0.01	0.0	0.0	0.0	0.0
23	23	0.01	0.0	0.0	0.0	0.0
24	24	0.01	0.0	0.0	0.0	0.0
25	25	0.01	0.0	0.0	0.0	0.0
26	26	0.01	0.0	0.0	0.0	0.0
27	27	0.01	0.0	0.0	0.0	0.0
28	28	0.01	0.0	0.0	0.0	0.0
29	29	0.01	0.0	0.0	0.0	0.0
30	30	0.01	0.0	0.0	0.0	0.0
31	31	0.01	0.0	0.0	0.0	0.0
32	32	0.01	0.0	0.0	0.0	0.0
33	33	0.01	0.0	0.0	0.0	0.0
34	34	0.01	0.0	0.0	0.0	0.0
35	35	0.01	0.0	0.0	0.0	0.0
36	36	0.01	0.0	0.0	0.0	0.0
37	37	0.01	0.0	0.0	0.0	0.0
38	38	0.01	0.0	0.0	0.0	0.0
39	39	0.01	0.0	0.0	0.0	0.0
40	40	0.01	0.0	0.0	0.0	0.0
41	41	0.04	0.0	0.0	0.5	0.0
42	42	0.04	0.0	0.0	0.5	0.0
43	43	0.08	0.0	0.0	0.5	0.0

END HYDR-PARM2
HYDR-INIT

RCHRES #	# *** ac-ft	VOL	Initial value of COLIND for each possible exit					***	Initial value of OUTDGT for each possible exit				
1		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
2		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
3		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
4		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
5		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
6		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
7		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
8		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
9		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
10		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
11		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
12		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
13		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
14		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
15		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
16		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
17		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
18		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
19		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
20		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
21		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
22		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
23		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
24		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
25		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
26		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
27		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
28		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
29		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
30		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
31		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
32		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
33		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
34		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
35		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
36		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
37		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
38		0	4.0	5.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0

```
    39          0            4.0   5.0   0.0   0.0   0.0        0.0   0.0   0.0   0.0   0.0
    40          0            4.0   5.0   0.0   0.0   0.0        0.0   0.0   0.0   0.0   0.0
    41          0            4.0   0.0   0.0   0.0   0.0        0.0   0.0   0.0   0.0   0.0
    42          0            4.0   0.0   0.0   0.0   0.0        0.0   0.0   0.0   0.0   0.0
    43          0            4.0   0.0   0.0   0.0   0.0        0.0   0.0   0.0   0.0   0.0
  END HYDR-INIT
END RCHRES

SPEC-ACTIONS
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol2   RCHRES   2 VOL              4
  UVQUAN v2m2   GLOBAL     WORKSP  1        3
  UVQUAN vpo2   GLOBAL     WORKSP  2        3
  UVQUAN v2d2   GENER    2 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol4   RCHRES   4 VOL              4
  UVQUAN v2m4   GLOBAL     WORKSP  3        3
  UVQUAN vpo4   GLOBAL     WORKSP  4        3
  UVQUAN v2d4   GENER    4 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol6   RCHRES   6 VOL              4
  UVQUAN v2m6   GLOBAL     WORKSP  5        3
  UVQUAN vpo6   GLOBAL     WORKSP  6        3
  UVQUAN v2d6   GENER    6 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol8   RCHRES   8 VOL              4
  UVQUAN v2m8   GLOBAL     WORKSP  7        3
  UVQUAN vpo8   GLOBAL     WORKSP  8        3
  UVQUAN v2d8   GENER    8 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol10  RCHRES  10 VOL              4
  UVQUAN v2m10  GLOBAL     WORKSP  9        3
  UVQUAN vpo10  GLOBAL     WORKSP 10        3
  UVQUAN v2d10  GENER   10 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol12  RCHRES  12 VOL              4
  UVQUAN v2m12  GLOBAL     WORKSP 11        3
  UVQUAN vpo12  GLOBAL     WORKSP 12        3
  UVQUAN v2d12  GENER   12 K       1        3
*** User-Defined Variable Quantity Lines
***                            addr
***                           <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol14  RCHRES  14 VOL              4
  UVQUAN v2m14  GLOBAL     WORKSP 13        3
```

```
  UVQUAN vpo14  GLOBAL      WORKSP 14         3
  UVQUAN v2d14  GENER    14 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol16  RCHRES  16 VOL               4
  UVQUAN v2m16  GLOBAL      WORKSP 15         3
  UVQUAN vpo16  GLOBAL      WORKSP 16         3
  UVQUAN v2d16  GENER    16 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol18  RCHRES  18 VOL               4
  UVQUAN v2m18  GLOBAL      WORKSP 17         3
  UVQUAN vpo18  GLOBAL      WORKSP 18         3
  UVQUAN v2d18  GENER    18 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol20  RCHRES  20 VOL               4
  UVQUAN v2m20  GLOBAL      WORKSP 19         3
  UVQUAN vpo20  GLOBAL      WORKSP 20         3
  UVQUAN v2d20  GENER    20 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol22  RCHRES  22 VOL               4
  UVQUAN v2m22  GLOBAL      WORKSP 21         3
  UVQUAN vpo22  GLOBAL      WORKSP 22         3
  UVQUAN v2d22  GENER    22 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol24  RCHRES  24 VOL               4
  UVQUAN v2m24  GLOBAL      WORKSP 23         3
  UVQUAN vpo24  GLOBAL      WORKSP 24         3
  UVQUAN v2d24  GENER    24 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol26  RCHRES  26 VOL               4
  UVQUAN v2m26  GLOBAL      WORKSP 25         3
  UVQUAN vpo26  GLOBAL      WORKSP 26         3
  UVQUAN v2d26  GENER    26 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol28  RCHRES  28 VOL               4
  UVQUAN v2m28  GLOBAL      WORKSP 27         3
  UVQUAN vpo28  GLOBAL      WORKSP 28         3
  UVQUAN v2d28  GENER    28 K       1         3
*** User-Defined Variable Quantity Lines
***                           addr
***                          <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
```

```
  UVQUAN vol30  RCHRES  30 VOL              4
  UVQUAN v2m30  GLOBAL     WORKSP 29        3
  UVQUAN vpo30  GLOBAL     WORKSP 30        3
  UVQUAN v2d30  GENER   30 K       1        3
*** User-Defined Variable Quantity Lines
***                          addr
***                         <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol32  RCHRES  32 VOL              4
  UVQUAN v2m32  GLOBAL     WORKSP 31        3
  UVQUAN vpo32  GLOBAL     WORKSP 32        3
  UVQUAN v2d32  GENER   32 K       1        3
*** User-Defined Variable Quantity Lines
***                          addr
***                         <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol34  RCHRES  34 VOL              4
  UVQUAN v2m34  GLOBAL     WORKSP 33        3
  UVQUAN vpo34  GLOBAL     WORKSP 34        3
  UVQUAN v2d34  GENER   34 K       1        3
*** User-Defined Variable Quantity Lines
***                          addr
***                         <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol36  RCHRES  36 VOL              4
  UVQUAN v2m36  GLOBAL     WORKSP 35        3
  UVQUAN vpo36  GLOBAL     WORKSP 36        3
  UVQUAN v2d36  GENER   36 K       1        3
*** User-Defined Variable Quantity Lines
***                          addr
***                         <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol38  RCHRES  38 VOL              4
  UVQUAN v2m38  GLOBAL     WORKSP 37        3
  UVQUAN vpo38  GLOBAL     WORKSP 38        3
  UVQUAN v2d38  GENER   38 K       1        3
*** User-Defined Variable Quantity Lines
***                          addr
***                         <------>
*** kwd  varnam optyp  opn  vari  s1 s2 s3 tp multiply  lc ls ac as agfn ***
  <****> <----> <----> <-> <----><-><-><-><-><---------> <><-> <><-> <--> ***
  UVQUAN vol40  RCHRES  40 VOL              4
  UVQUAN v2m40  GLOBAL     WORKSP 39        3
  UVQUAN vpo40  GLOBAL     WORKSP 40        3
  UVQUAN v2d40  GENER   40 K       1        3
*** User-Defined Target Variable Names
***                  addr or                        addr or
***                 <------>                       <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper      vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->     <----><-><-><-> <---> <-->
  UVNAME  v2m2    1 WORKSP  1         1.0 QUAN
  UVNAME  vpo2    1 WORKSP  2         1.0 QUAN
  UVNAME  v2d2    1 K       1         1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                        addr or
***                 <------>                       <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper      vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->     <----><-><-><-> <---> <-->
  UVNAME  v2m4    1 WORKSP  3         1.0 QUAN
  UVNAME  vpo4    1 WORKSP  4         1.0 QUAN
  UVNAME  v2d4    1 K       1         1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                        addr or
***                 <------>                       <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper      vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->     <----><-><-><-> <---> <-->
```

```
  UVNAME  v2m6     1 WORKSP  5          1.0 QUAN
  UVNAME  vpo6     1 WORKSP  6          1.0 QUAN
  UVNAME  v2d6     1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m8     1 WORKSP  7          1.0 QUAN
  UVNAME  vpo8     1 WORKSP  8          1.0 QUAN
  UVNAME  v2d8     1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m10    1 WORKSP  9          1.0 QUAN
  UVNAME  vpo10    1 WORKSP 10          1.0 QUAN
  UVNAME  v2d10    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m12    1 WORKSP 11          1.0 QUAN
  UVNAME  vpo12    1 WORKSP 12          1.0 QUAN
  UVNAME  v2d12    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m14    1 WORKSP 13          1.0 QUAN
  UVNAME  vpo14    1 WORKSP 14          1.0 QUAN
  UVNAME  v2d14    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m16    1 WORKSP 15          1.0 QUAN
  UVNAME  vpo16    1 WORKSP 16          1.0 QUAN
  UVNAME  v2d16    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m18    1 WORKSP 17          1.0 QUAN
  UVNAME  vpo18    1 WORKSP 18          1.0 QUAN
  UVNAME  v2d18    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m20    1 WORKSP 19          1.0 QUAN
  UVNAME  vpo20    1 WORKSP 20          1.0 QUAN
  UVNAME  v2d20    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m22    1 WORKSP 21          1.0 QUAN
  UVNAME  vpo22    1 WORKSP 22          1.0 QUAN
  UVNAME  v2d22    1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                          addr or
***                 <------>                         <------>
```

```
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m24   1 WORKSP 23          1.0 QUAN
  UVNAME  vpo24   1 WORKSP 24          1.0 QUAN
  UVNAME  v2d24   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m26   1 WORKSP 25          1.0 QUAN
  UVNAME  vpo26   1 WORKSP 26          1.0 QUAN
  UVNAME  v2d26   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m28   1 WORKSP 27          1.0 QUAN
  UVNAME  vpo28   1 WORKSP 28          1.0 QUAN
  UVNAME  v2d28   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m30   1 WORKSP 29          1.0 QUAN
  UVNAME  vpo30   1 WORKSP 30          1.0 QUAN
  UVNAME  v2d30   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m32   1 WORKSP 31          1.0 QUAN
  UVNAME  vpo32   1 WORKSP 32          1.0 QUAN
  UVNAME  v2d32   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m34   1 WORKSP 33          1.0 QUAN
  UVNAME  vpo34   1 WORKSP 34          1.0 QUAN
  UVNAME  v2d34   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m36   1 WORKSP 35          1.0 QUAN
  UVNAME  vpo36   1 WORKSP 36          1.0 QUAN
  UVNAME  v2d36   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m38   1 WORKSP 37          1.0 QUAN
  UVNAME  vpo38   1 WORKSP 38          1.0 QUAN
  UVNAME  v2d38   1 K       1          1.0 QUAN
*** User-Defined Target Variable Names
***                  addr or                    addr or
***                 <------>                   <------>
*** kwd   varnam ct  vari  s1 s2 s3  frac oper     vari  s1 s2 s3  frac oper
  <****>  <----><-> <----><-><-><-> <---> <-->    <----><-><-><-> <---> <-->
  UVNAME  v2m40   1 WORKSP 39          1.0 QUAN
  UVNAME  vpo40   1 WORKSP 40          1.0 QUAN
  UVNAME  v2d40   1 K       1          1.0 QUAN
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
```

```
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER   2                                v2m2            =  1184.75
*** Compute remaining available pore space
  GENER   2                                vpo2            =  v2m2
  GENER   2                                vpo2           -=  vol2
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo2 < 0.0) THEN
  GENER   2                                vpo2            =  0.0
END IF
*** Infiltration volume
  GENER   2                                v2d2            =  vpo2
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER   4                                v2m4            =  230.69
*** Compute remaining available pore space
  GENER   4                                vpo4            =  v2m4
  GENER   4                                vpo4           -=  vol4
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo4 < 0.0) THEN
  GENER   4                                vpo4            =  0.0
END IF
*** Infiltration volume
  GENER   4                                v2d4            =  vpo4
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER   6                                v2m6            =  700.82
*** Compute remaining available pore space
  GENER   6                                vpo6            =  v2m6
  GENER   6                                vpo6           -=  vol6
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo6 < 0.0) THEN
  GENER   6                                vpo6            =  0.0
END IF
*** Infiltration volume
  GENER   6                                v2d6            =  vpo6
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER   8                                v2m8            =  931.88
*** Compute remaining available pore space
  GENER   8                                vpo8            =  v2m8
  GENER   8                                vpo8           -=  vol8
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo8 < 0.0) THEN
  GENER   8                                vpo8            =  0.0
END IF
*** Infiltration volume
  GENER   8                                v2d8            =  vpo8
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER  10                                v2m10           =  498.14
*** Compute remaining available pore space
  GENER  10                                vpo10           =  v2m10
  GENER  10                                vpo10          -=  vol10
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo10 < 0.0) THEN
  GENER  10                                vpo10           =  0.0
END IF
*** Infiltration volume
  GENER  10                                v2d10           =  vpo10
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><---------> <> <-><->
  GENER  12                                v2m12           =  313.03
*** Compute remaining available pore space
  GENER  12                                vpo12           =  v2m12
  GENER  12                                vpo12          -=  vol12
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo12 < 0.0) THEN
  GENER  12                                vpo12           =  0.0
END IF
*** Infiltration volume
```

```
  GENER  12                                    v2d12           =  vpo12
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  14                                    v2m14           =  509.67
*** Compute remaining available pore space
  GENER  14                                    vpo14           =  v2m14
  GENER  14                                    vpo14          -=  vol14
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo14 < 0.0) THEN
  GENER  14                                    vpo14           =  0.0
END IF
*** Infiltration volume
  GENER  14                                    v2d14           =  vpo14
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  16                                    v2m16           =  127.47
*** Compute remaining available pore space
  GENER  16                                    vpo16           =  v2m16
  GENER  16                                    vpo16          -=  vol16
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo16 < 0.0) THEN
  GENER  16                                    vpo16           =  0.0
END IF
*** Infiltration volume
  GENER  16                                    v2d16           =  vpo16
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  18                                    v2m18           =  1235.11
*** Compute remaining available pore space
  GENER  18                                    vpo18           =  v2m18
  GENER  18                                    vpo18          -=  vol18
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo18 < 0.0) THEN
  GENER  18                                    vpo18           =  0.0
END IF
*** Infiltration volume
  GENER  18                                    v2d18           =  vpo18
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  20                                    v2m20           =  256.97
*** Compute remaining available pore space
  GENER  20                                    vpo20           =  v2m20
  GENER  20                                    vpo20          -=  vol20
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo20 < 0.0) THEN
  GENER  20                                    vpo20           =  0.0
END IF
*** Infiltration volume
  GENER  20                                    v2d20           =  vpo20
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  22                                    v2m22           =  408.05
*** Compute remaining available pore space
  GENER  22                                    vpo22           =  v2m22
  GENER  22                                    vpo22          -=  vol22
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo22 < 0.0) THEN
  GENER  22                                    vpo22           =  0.0
END IF
*** Infiltration volume
  GENER  22                                    v2d22           =  vpo22
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  24                                    v2m24           =  390.44
*** Compute remaining available pore space
  GENER  24                                    vpo24           =  v2m24
  GENER  24                                    vpo24          -=  vol24
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo24 < 0.0) THEN
  GENER  24                                    vpo24           =  0.0
```

```
END IF
*** Infiltration volume
  GENER  24                                  v2d24          =  vpo24
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  26                                  v2m26          =  518.65
*** Compute remaining available pore space
  GENER  26                                  vpo26          =  v2m26
  GENER  26                                  vpo26          -=  vol26
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo26 < 0.0) THEN
  GENER  26                                  vpo26          =  0.0
END IF
*** Infiltration volume
  GENER  26                                  v2d26          =  vpo26
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  28                                  v2m28          =  511.16
*** Compute remaining available pore space
  GENER  28                                  vpo28          =  v2m28
  GENER  28                                  vpo28          -=  vol28
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo28 < 0.0) THEN
  GENER  28                                  vpo28          =  0.0
END IF
*** Infiltration volume
  GENER  28                                  v2d28          =  vpo28
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  30                                  v2m30          =  572.09
*** Compute remaining available pore space
  GENER  30                                  vpo30          =  v2m30
  GENER  30                                  vpo30          -=  vol30
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo30 < 0.0) THEN
  GENER  30                                  vpo30          =  0.0
END IF
*** Infiltration volume
  GENER  30                                  v2d30          =  vpo30
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  32                                  v2m32          =  554.84
*** Compute remaining available pore space
  GENER  32                                  vpo32          =  v2m32
  GENER  32                                  vpo32          -=  vol32
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo32 < 0.0) THEN
  GENER  32                                  vpo32          =  0.0
END IF
*** Infiltration volume
  GENER  32                                  v2d32          =  vpo32
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  34                                  v2m34          =  457.5
*** Compute remaining available pore space
  GENER  34                                  vpo34          =  v2m34
  GENER  34                                  vpo34          -=  vol34
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo34 < 0.0) THEN
  GENER  34                                  vpo34          =  0.0
END IF
*** Infiltration volume
  GENER  34                                  v2d34          =  vpo34
*** opt foplop dcdts  yr mo dy hr mn d t    vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>   <----><-><-><-><-><---------> <> <-><->
  GENER  36                                  v2m36          =  466.47
*** Compute remaining available pore space
  GENER  36                                  vpo36          =  v2m36
  GENER  36                                  vpo36          -=  vol36
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
```

```
IF (vpo36 < 0.0) THEN
  GENER  36                                vpo36           =  0.0
END IF
*** Infiltration volume
  GENER  36                                v2d36           =  vpo36
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  38                                v2m38           =  506.2
*** Compute remaining available pore space
  GENER  38                                vpo38           =  v2m38
  GENER  38                                vpo38          -=  vol38
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo38 < 0.0) THEN
  GENER  38                                vpo38           =  0.0
END IF
*** Infiltration volume
  GENER  38                                v2d38           =  vpo38
*** opt foplop dcdts  yr mo dy hr mn d t   vnam  s1 s2 s3 ac quantity  tc  ts rp
  <****><-><--><><-><--> <> <> <> <><><>  <----><-><-><-><-><--------> <> <-><->
  GENER  40                                v2m40           =  260.83
*** Compute remaining available pore space
  GENER  40                                vpo40           =  v2m40
  GENER  40                                vpo40          -=  vol40
*** Check to see if VPORA goes negative; if so set VPORA = 0.0
IF (vpo40 < 0.0) THEN
  GENER  40                                vpo40           =  0.0
END IF
*** Infiltration volume
  GENER  40                                v2d40           =  vpo40
END SPEC-ACTIONS
FTABLES
  FTABLE      2
   70    5
     Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
      (ft)   (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
  0.000000  0.021049  0.000000  0.000000  0.000000
  0.043956  0.021049  0.000372  0.000000  0.000000
  0.087912  0.021049  0.000744  0.000000  0.000000
  0.131868  0.021049  0.001116  0.000000  0.000000
  0.175824  0.021049  0.001488  0.000000  0.000000
  0.219780  0.021049  0.001860  0.000000  0.000000
  0.263736  0.021049  0.002232  0.000000  0.000000
  0.307692  0.021049  0.002604  0.000000  0.000000
  0.351648  0.021049  0.002975  0.000000  0.000000
  0.395604  0.021049  0.003347  0.000000  0.000000
  0.439560  0.021049  0.003719  0.000000  0.000000
  0.483516  0.021049  0.004091  0.000000  0.000000
  0.527473  0.021049  0.004480  0.000500  0.000221
  0.571429  0.021049  0.004868  0.000732  0.000240
  0.615385  0.021049  0.005257  0.000999  0.000254
  0.659341  0.021049  0.005646  0.001127  0.000259
  0.703297  0.021049  0.006034  0.001323  0.000265
  0.747253  0.021049  0.006423  0.001418  0.000268
  0.791209  0.021049  0.006811  0.001583  0.000272
  0.835165  0.021049  0.007200  0.001663  0.000273
  0.879121  0.021049  0.007589  0.001809  0.000276
  0.923077  0.021049  0.007977  0.001881  0.000277
  0.967033  0.021049  0.008366  0.002015  0.000280
  1.010989  0.021049  0.008754  0.002080  0.000281
  1.054945  0.021049  0.009143  0.002204  0.000282
  1.098901  0.021049  0.009532  0.002265  0.000283
  1.142857  0.021049  0.009920  0.002381  0.000284
  1.186813  0.021049  0.010309  0.002438  0.000285
  1.230769  0.021049  0.010697  0.002548  0.000286
  1.274725  0.021049  0.011086  0.002602  0.000287
  1.318681  0.021049  0.011475  0.002706  0.000288
  1.362637  0.021049  0.011863  0.002758  0.000288
  1.406593  0.021049  0.012252  0.002857  0.000289
  1.450549  0.021049  0.012640  0.002906  0.000290
  1.494505  0.021049  0.013029  0.003002  0.000290
```

```
1.538462  0.021049  0.013417  0.003049  0.000291
1.582418  0.021049  0.013806  0.003140  0.000291
1.626374  0.021049  0.014195  0.003186  0.000292
1.670330  0.021049  0.014583  0.003274  0.000292
1.714286  0.021049  0.014972  0.003318  0.000293
1.758242  0.021049  0.015360  0.003403  0.000293
1.802198  0.021049  0.015749  0.003446  0.000293
1.846154  0.021049  0.016138  0.003529  0.000294
1.890110  0.021049  0.016526  0.003570  0.000294
1.934066  0.021049  0.016915  0.003650  0.000295
1.978022  0.021049  0.017303  0.003690  0.000295
2.021978  0.021049  0.017687  0.003768  0.000295
2.065934  0.021049  0.018071  0.003768  0.000295
2.109890  0.021049  0.018455  0.003768  0.000295
2.153846  0.021049  0.018839  0.003821  0.000296
2.197802  0.021049  0.019223  0.003848  0.000296
2.241758  0.021049  0.019607  0.003917  0.000296
2.285714  0.021049  0.019991  0.003952  0.000296
2.329670  0.021049  0.020375  0.003969  0.000296
2.373626  0.021049  0.020759  0.003978  0.000296
2.417582  0.021049  0.021143  0.003982  0.000296
2.461538  0.021049  0.021527  0.003984  0.000296
2.505495  0.021049  0.021911  0.004027  0.000297
2.549451  0.021049  0.022295  0.004155  0.000297
2.593407  0.021049  0.022679  0.004321  0.000298
2.637363  0.021049  0.023063  0.004502  0.000299
2.681319  0.021049  0.023447  0.004688  0.000299
2.725275  0.021049  0.023831  0.004872  0.000300
2.769231  0.021049  0.024215  0.005053  0.000300
2.813187  0.021049  0.024599  0.005230  0.000301
2.857143  0.021049  0.024983  0.005403  0.000302
2.901099  0.021049  0.025367  0.005571  0.000302
2.945055  0.021049  0.025751  0.005737  0.000302
2.989011  0.021049  0.026135  0.005903  0.000303
3.000000  0.021049  0.027198  0.011399  0.000310
END FTABLE  2
FTABLE      1
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.021049  0.000000  0.000000  0.000000
0.043956  0.021049  0.000925  0.000000  0.049968
0.087912  0.021049  0.001850  0.000000  0.058754
0.131868  0.021049  0.002776  0.000000  0.063147
0.175824  0.021049  0.003701  0.000000  0.067540
0.219780  0.021049  0.004626  0.000000  0.071933
0.263736  0.021049  0.005551  0.000000  0.076325
0.307692  0.021049  0.006477  0.000000  0.080718
0.351648  0.021049  0.007402  0.000000  0.085111
0.395604  0.021049  0.008327  0.000000  0.089504
0.439560  0.021049  0.009252  0.000000  0.093897
0.483516  0.021049  0.010177  0.000000  0.098290
0.527473  0.021049  0.011103  0.024122  0.102682
0.571429  0.021049  0.012028  0.099620  0.107075
0.615385  0.021049  0.012953  0.194303  0.111468
0.659341  0.021049  0.013878  0.284544  0.115861
0.703297  0.021049  0.014803  0.350332  0.120254
0.747253  0.021049  0.015729  0.387674  0.124647
0.791209  0.021049  0.016654  0.424915  0.129039
0.835165  0.021049  0.017579  0.455857  0.133432
0.879121  0.021049  0.018504  0.484829  0.137825
0.923077  0.021049  0.019430  0.512164  0.142218
0.967033  0.021049  0.020355  0.538113  0.146611
1.000000  0.021049  0.021049  0.562866  0.149905
END FTABLE  1
FTABLE      4
 70    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.003473  0.000000  0.000000  0.000000
```

```
0.043956  0.003473  0.000061  0.000000  0.000000
0.087912  0.003473  0.000123  0.000000  0.000000
0.131868  0.003473  0.000184  0.000000  0.000000
0.175824  0.003473  0.000245  0.000000  0.000000
0.219780  0.003473  0.000307  0.000000  0.000000
0.263736  0.003473  0.000368  0.000000  0.000000
0.307692  0.003473  0.000430  0.000000  0.000000
0.351648  0.003473  0.000491  0.000000  0.000000
0.395604  0.003473  0.000552  0.000000  0.000000
0.439560  0.003473  0.000614  0.000000  0.000000
0.483516  0.003473  0.000675  0.000000  0.000000
0.527473  0.003473  0.000739  0.000246  0.000009
0.571429  0.003473  0.000803  0.000341  0.000012
0.615385  0.003473  0.000867  0.000458  0.000017
0.659341  0.003473  0.000932  0.000599  0.000022
0.703297  0.003473  0.000996  0.000767  0.000028
0.747253  0.003473  0.001060  0.000963  0.000035
0.791209  0.003473  0.001124  0.001188  0.000043
0.835165  0.003473  0.001188  0.001265  0.000051
0.879121  0.003473  0.001252  0.001303  0.000051
0.923077  0.003473  0.001316  0.001487  0.000051
0.967033  0.003473  0.001380  0.001580  0.000051
1.010989  0.003473  0.001445  0.001763  0.000051
1.054945  0.003473  0.001509  0.001855  0.000051
1.098901  0.003473  0.001573  0.002022  0.000051
1.142857  0.003473  0.001637  0.002105  0.000051
1.186813  0.003473  0.001701  0.002255  0.000051
1.230769  0.003473  0.001765  0.002330  0.000051
1.274725  0.003473  0.001829  0.002467  0.000051
1.318681  0.003473  0.001893  0.002536  0.000051
1.362637  0.003473  0.001957  0.002662  0.000052
1.406593  0.003473  0.002022  0.002726  0.000052
1.450549  0.003473  0.002086  0.002844  0.000052
1.494505  0.003473  0.002150  0.002903  0.000052
1.538462  0.003473  0.002214  0.003015  0.000052
1.582418  0.003473  0.002278  0.003071  0.000052
1.626374  0.003473  0.002342  0.003177  0.000052
1.670330  0.003473  0.002406  0.003229  0.000052
1.714286  0.003473  0.002470  0.003330  0.000052
1.758242  0.003473  0.002535  0.003381  0.000052
1.802198  0.003473  0.002599  0.003477  0.000052
1.846154  0.003473  0.002663  0.003526  0.000052
1.890110  0.003473  0.002727  0.003618  0.000052
1.934066  0.003473  0.002791  0.003665  0.000052
1.978022  0.003473  0.002855  0.003705  0.000052
2.021978  0.003473  0.002919  0.003725  0.000052
2.065934  0.003473  0.002982  0.003800  0.000052
2.109890  0.003473  0.003045  0.003838  0.000052
2.153846  0.003473  0.003109  0.003920  0.000052
2.197802  0.003473  0.003172  0.003962  0.000052
2.241758  0.003473  0.003235  0.003982  0.000052
2.285714  0.003473  0.003299  0.003992  0.000052
2.329670  0.003473  0.003362  0.003998  0.000052
2.373626  0.003473  0.003425  0.004000  0.000052
2.417582  0.003473  0.003489  0.004048  0.000052
2.461538  0.003473  0.003552  0.004190  0.000052
2.505495  0.003473  0.003615  0.004374  0.000052
2.549451  0.003473  0.003679  0.004574  0.000052
2.593407  0.003473  0.003742  0.004777  0.000052
2.637363  0.003473  0.003805  0.004977  0.000052
2.681319  0.003473  0.003869  0.005172  0.000052
2.725275  0.003473  0.003932  0.005362  0.000052
2.769231  0.003473  0.003996  0.005547  0.000052
2.813187  0.003473  0.004059  0.005726  0.000052
2.857143  0.003473  0.004122  0.005900  0.000052
2.901099  0.003473  0.004186  0.006070  0.000052
2.945055  0.003473  0.004249  0.006237  0.000052
2.989011  0.003473  0.004312  0.006403  0.000052
3.000000  0.003473  0.005296  0.011656  0.000052
END FTABLE  4
```

FTABLE 3
24 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.003473	0.000000	0.000000	0.000000		
0.043956	0.003473	0.000153	0.000000	0.008245		
0.087912	0.003473	0.000305	0.000000	0.009695		
0.131868	0.003473	0.000458	0.000000	0.010420		
0.175824	0.003473	0.000611	0.000000	0.011144		
0.219780	0.003473	0.000763	0.000000	0.011869		
0.263736	0.003473	0.000916	0.000000	0.012594		
0.307692	0.003473	0.001069	0.000000	0.013319		
0.351648	0.003473	0.001221	0.000000	0.014044		
0.395604	0.003473	0.001374	0.000000	0.014769		
0.439560	0.003473	0.001527	0.000000	0.015493		
0.483516	0.003473	0.001679	0.000000	0.016218		
0.527473	0.003473	0.001832	0.024122	0.016943		
0.571429	0.003473	0.001985	0.099620	0.017668		
0.615385	0.003473	0.002137	0.194303	0.018393		
0.659341	0.003473	0.002290	0.284544	0.019118		
0.703297	0.003473	0.002443	0.350332	0.019843		
0.747253	0.003473	0.002595	0.387674	0.020567		
0.791209	0.003473	0.002748	0.424915	0.021292		
0.835165	0.003473	0.002901	0.455857	0.022017		
0.879121	0.003473	0.003053	0.484829	0.022742		
0.923077	0.003473	0.003206	0.512164	0.023467		
0.967033	0.003473	0.003359	0.538113	0.024192		
1.000000	0.003473	0.003473	0.562866	0.024735		

END FTABLE 3
FTABLE 6
70 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.012134	0.000000	0.000000	0.000000		
0.043956	0.012134	0.000214	0.000000	0.000000		
0.087912	0.012134	0.000429	0.000000	0.000000		
0.131868	0.012134	0.000643	0.000000	0.000000		
0.175824	0.012134	0.000858	0.000000	0.000000		
0.219780	0.012134	0.001072	0.000000	0.000000		
0.263736	0.012134	0.001286	0.000000	0.000000		
0.307692	0.012134	0.001501	0.000000	0.000000		
0.351648	0.012134	0.001715	0.000000	0.000000		
0.395604	0.012134	0.001930	0.000000	0.000000		
0.439560	0.012134	0.002144	0.000000	0.000000		
0.483516	0.012134	0.002358	0.000000	0.000000		
0.527473	0.012134	0.002582	0.000790	0.000100		
0.571429	0.012134	0.002806	0.001094	0.000139		
0.615385	0.012134	0.003030	0.001108	0.000160		
0.659341	0.012134	0.003254	0.001115	0.000160		
0.703297	0.012134	0.003478	0.001281	0.000163		
0.747253	0.012134	0.003702	0.001364	0.000164		
0.791209	0.012134	0.003926	0.001541	0.000166		
0.835165	0.012134	0.004150	0.001628	0.000166		
0.879121	0.012134	0.004375	0.001792	0.000168		
0.923077	0.012134	0.004599	0.001873	0.000168		
0.967033	0.012134	0.004823	0.002021	0.000169		
1.010989	0.012134	0.005047	0.002095	0.000170		
1.054945	0.012134	0.005271	0.002230	0.000170		
1.098901	0.012134	0.005495	0.002298	0.000171		
1.142857	0.012134	0.005719	0.002424	0.000171		
1.186813	0.012134	0.005943	0.002486	0.000172		
1.230769	0.012134	0.006167	0.002604	0.000172		
1.274725	0.012134	0.006391	0.002663	0.000172		
1.318681	0.012134	0.006615	0.002773	0.000173		
1.362637	0.012134	0.006839	0.002829	0.000173		
1.406593	0.012134	0.007063	0.002934	0.000173		
1.450549	0.012134	0.007287	0.002986	0.000173		
1.494505	0.012134	0.007511	0.003087	0.000174		
1.538462	0.012134	0.007735	0.003137	0.000174		
1.582418	0.012134	0.007959	0.003233	0.000174		

```
1.626374  0.012134  0.008183  0.003281  0.000174
1.670330  0.012134  0.008407  0.003373  0.000174
1.714286  0.012134  0.008631  0.003419  0.000175
1.758242  0.012134  0.008855  0.003508  0.000175
1.802198  0.012134  0.009079  0.003553  0.000175
1.846154  0.012134  0.009303  0.003639  0.000175
1.890110  0.012134  0.009527  0.003682  0.000175
1.934066  0.012134  0.009751  0.003765  0.000175
1.978022  0.012134  0.009975  0.003807  0.000175
2.021978  0.012134  0.010196  0.003843  0.000176
2.065934  0.012134  0.010417  0.003861  0.000176
2.109890  0.012134  0.010639  0.003929  0.000176
2.153846  0.012134  0.010860  0.003963  0.000176
2.197802  0.012134  0.011081  0.004039  0.000176
2.241758  0.012134  0.011303  0.004076  0.000176
2.285714  0.012134  0.011524  0.004152  0.000176
2.329670  0.012134  0.011745  0.004189  0.000176
2.373626  0.012134  0.011967  0.004208  0.000176
2.417582  0.012134  0.012188  0.004217  0.000176
2.461538  0.012134  0.012409  0.004222  0.000176
2.505495  0.012134  0.012631  0.004266  0.000176
2.549451  0.012134  0.012852  0.004395  0.000176
2.593407  0.012134  0.013073  0.004562  0.000177
2.637363  0.012134  0.013295  0.004745  0.000177
2.681319  0.012134  0.013516  0.004931  0.000177
2.725275  0.012134  0.013737  0.005116  0.000177
2.769231  0.012134  0.013959  0.005298  0.000178
2.813187  0.012134  0.014180  0.005476  0.000178
2.857143  0.012134  0.014401  0.005649  0.000178
2.901099  0.012134  0.014623  0.005819  0.000178
2.945055  0.012134  0.014844  0.005985  0.000178
2.989011  0.012134  0.015065  0.006151  0.000178
3.000000  0.012134  0.016089  0.011530  0.000181
END FTABLE  6
FTABLE      5
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.012134  0.000000  0.000000  0.000000
0.043956  0.012134  0.000533  0.000000  0.028805
0.087912  0.012134  0.001067  0.000000  0.033869
0.131868  0.012134  0.001600  0.000000  0.036401
0.175824  0.012134  0.002133  0.000000  0.038934
0.219780  0.012134  0.002667  0.000000  0.041466
0.263736  0.012134  0.003200  0.000000  0.043998
0.307692  0.012134  0.003733  0.000000  0.046531
0.351648  0.012134  0.004267  0.000000  0.049063
0.395604  0.012134  0.004800  0.000000  0.051595
0.439560  0.012134  0.005333  0.000000  0.054127
0.483516  0.012134  0.005867  0.000000  0.056660
0.527473  0.012134  0.006400  0.024122  0.059192
0.571429  0.012134  0.006933  0.099620  0.061724
0.615385  0.012134  0.007467  0.194303  0.064256
0.659341  0.012134  0.008000  0.284544  0.066789
0.703297  0.012134  0.008534  0.350332  0.069321
0.747253  0.012134  0.009067  0.387674  0.071853
0.791209  0.012134  0.009600  0.424915  0.074386
0.835165  0.012134  0.010134  0.455857  0.076918
0.879121  0.012134  0.010667  0.484829  0.079450
0.923077  0.012134  0.011200  0.512164  0.081982
0.967033  0.012134  0.011734  0.538113  0.084515
1.000000  0.012134  0.012134  0.562866  0.086414
END FTABLE  5
FTABLE     41
 91    4
   Depth      Area     Volume  Outflow1 Velocity  Travel Time***
    (ft)    (acres) (acre-ft)   (cfs)   (ft/sec)    (Minutes)***
0.000000  0.000000  0.000000  0.000000
0.022222  0.001925  0.000029  0.000391
0.044444  0.002707  0.000081  0.000553
```

0.066667	0.003297	0.000148	0.000678
0.088889	0.003785	0.000226	0.000783
0.111111	0.004207	0.000315	0.000875
0.133333	0.004581	0.000413	0.000958
0.155556	0.004919	0.000519	0.001035
0.177778	0.005227	0.000631	0.001107
0.200000	0.005510	0.000751	0.001174
0.222222	0.005772	0.000876	0.001237
0.244444	0.006015	0.001007	0.001298
0.266667	0.006243	0.001143	0.001355
0.288889	0.006456	0.001284	0.001411
0.311111	0.006656	0.001430	0.001464
0.333333	0.006844	0.001580	0.001515
0.355556	0.007022	0.001734	0.001565
0.377778	0.007189	0.001892	0.001613
0.400000	0.007346	0.002054	0.001660
0.422222	0.007495	0.002219	0.001705
0.444444	0.007635	0.002387	0.001750
0.466667	0.007768	0.002558	0.001793
0.488889	0.007893	0.002732	0.001835
0.511111	0.008011	0.002909	0.001876
0.533333	0.008122	0.003088	0.001917
0.555556	0.008226	0.003270	0.001956
0.577778	0.008324	0.003453	0.001995
0.600000	0.008416	0.003639	0.002033
0.622222	0.008502	0.003827	0.002070
0.644444	0.008583	0.004017	0.002107
0.666667	0.008658	0.004209	0.002143
0.688889	0.008727	0.004402	0.002178
0.711111	0.008791	0.004597	0.002213
0.733333	0.008850	0.004793	0.002248
0.755556	0.008904	0.004990	0.002281
0.777778	0.008953	0.005188	0.002315
0.800000	0.008997	0.005388	0.002348
0.822222	0.009036	0.005588	0.002380
0.844444	0.009071	0.005789	0.002412
0.866667	0.009101	0.005991	0.002443
0.888889	0.009126	0.006194	0.002475
0.911111	0.009146	0.006397	0.002505
0.933333	0.009162	0.006600	0.002536
0.955556	0.009174	0.006804	0.002566
0.977778	0.009180	0.007008	0.002595
1.000000	0.009183	0.007212	0.002625
1.022222	0.009180	0.007416	0.037800
1.044444	0.009174	0.007620	0.102003
1.066667	0.009162	0.007824	0.184945
1.088889	0.009146	0.008027	0.282694
1.111111	0.009126	0.008230	0.392606
1.133333	0.009101	0.008433	0.512456
1.155556	0.009071	0.008635	0.640142
1.177778	0.009036	0.008836	0.773557
1.200000	0.008997	0.009036	0.910551
1.222222	0.008953	0.009236	1.048932
1.244444	0.008904	0.009434	1.186487
1.266667	0.008850	0.009631	1.321034
1.288889	0.008791	0.009828	1.450474
1.311111	0.008727	0.010022	1.572866
1.333333	0.008658	0.010215	1.686499
1.355556	0.008583	0.010407	1.789985
1.377778	0.008502	0.010597	1.882351
1.400000	0.008416	0.010785	1.963140
1.422222	0.008324	0.010971	2.032519
1.444444	0.008226	0.011155	2.091388
1.466667	0.008122	0.011336	2.141505
1.488889	0.008011	0.011516	2.185603
1.511111	0.007893	0.011692	2.254961
1.533333	0.007768	0.011866	2.303415
1.555556	0.007635	0.012037	2.350869
1.577778	0.007495	0.012206	2.397384
1.600000	0.007346	0.012371	2.443013

```
1.622222  0.007189  0.012532  2.487805
1.644444  0.007022  0.012690  2.531804
1.666667  0.006844  0.012844  2.575051
1.688889  0.006656  0.012994  2.617583
1.711111  0.006456  0.013140  2.659435
1.733333  0.006243  0.013281  2.700638
1.755556  0.006015  0.013417  2.741221
1.777778  0.005772  0.013548  2.781212
1.800000  0.005510  0.013674  2.820636
1.822222  0.005227  0.013793  2.859516
1.844444  0.004919  0.013906  2.897875
1.866667  0.004581  0.014011  2.935732
1.888889  0.004207  0.014109  2.973107
1.911111  0.003785  0.014198  3.010018
1.933333  0.003297  0.014277  3.046481
1.955556  0.002707  0.014344  3.082513
1.977778  0.001925  0.014396  3.118129
2.000000  0.001000  0.014424  3.153342
END FTABLE 41
FTABLE      8
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.016390  0.000000  0.000000  0.000000
0.043956  0.016390  0.000290  0.000000  0.000000
0.087912  0.016390  0.000579  0.000000  0.000000
0.131868  0.016390  0.000869  0.000000  0.000000
0.175824  0.016390  0.001158  0.000000  0.000000
0.219780  0.016390  0.001448  0.000000  0.000000
0.263736  0.016390  0.001738  0.000000  0.000000
0.307692  0.016390  0.002027  0.000000  0.000000
0.351648  0.016390  0.002317  0.000000  0.000000
0.395604  0.016390  0.002607  0.000000  0.000000
0.439560  0.016390  0.002896  0.000000  0.000000
0.483516  0.016390  0.003186  0.000000  0.000000
0.527473  0.016390  0.003488  0.001026  0.000176
0.571429  0.016390  0.003791  0.001028  0.000206
0.615385  0.016390  0.004094  0.001029  0.000206
0.659341  0.016390  0.004396  0.001191  0.000211
0.703297  0.016390  0.004699  0.001270  0.000212
0.747253  0.016390  0.005001  0.001444  0.000216
0.791209  0.016390  0.005304  0.001529  0.000217
0.835165  0.016390  0.005607  0.001690  0.000219
0.879121  0.016390  0.005909  0.001770  0.000220
0.923077  0.016390  0.006212  0.001917  0.000222
0.967033  0.016390  0.006514  0.001989  0.000223
1.010989  0.016390  0.006817  0.002124  0.000224
1.054945  0.016390  0.007119  0.002191  0.000225
1.098901  0.016390  0.007422  0.002316  0.000226
1.142857  0.016390  0.007725  0.002378  0.000226
1.186813  0.016390  0.008027  0.002494  0.000227
1.230769  0.016390  0.008330  0.002553  0.000228
1.274725  0.016390  0.008632  0.002663  0.000228
1.318681  0.016390  0.008935  0.002718  0.000229
1.362637  0.016390  0.009238  0.002822  0.000229
1.406593  0.016390  0.009540  0.002875  0.000230
1.450549  0.016390  0.009843  0.002974  0.000230
1.494505  0.016390  0.010145  0.003024  0.000230
1.538462  0.016390  0.010448  0.003120  0.000231
1.582418  0.016390  0.010751  0.003168  0.000231
1.626374  0.016390  0.011053  0.003260  0.000231
1.670330  0.016390  0.011356  0.003305  0.000232
1.714286  0.016390  0.011658  0.003394  0.000232
1.758242  0.016390  0.011961  0.003438  0.000232
1.802198  0.016390  0.012263  0.003524  0.000233
1.846154  0.016390  0.012566  0.003567  0.000233
1.890110  0.016390  0.012869  0.003650  0.000233
1.934066  0.016390  0.013171  0.003691  0.000233
1.978022  0.016390  0.013474  0.003772  0.000233
2.021978  0.016390  0.013773  0.003812  0.000234
```

```
2.065934  0.016390  0.014072  0.003847  0.000234
2.109890  0.016390  0.014371  0.003864  0.000234
2.153846  0.016390  0.014670  0.003931  0.000234
2.197802  0.016390  0.014969  0.003964  0.000234
2.241758  0.016390  0.015268  0.004037  0.000234
2.285714  0.016390  0.015567  0.004074  0.000234
2.329670  0.016390  0.015866  0.004092  0.000234
2.373626  0.016390  0.016165  0.004101  0.000234
2.417582  0.016390  0.016464  0.004105  0.000235
2.461538  0.016390  0.016763  0.004108  0.000235
2.505495  0.016390  0.017062  0.004150  0.000235
2.549451  0.016390  0.017361  0.004279  0.000235
2.593407  0.016390  0.017660  0.004445  0.000235
2.637363  0.016390  0.017959  0.004627  0.000236
2.681319  0.016390  0.018258  0.004813  0.000236
2.725275  0.016390  0.018557  0.004998  0.000237
2.769231  0.016390  0.018856  0.005180  0.000237
2.813187  0.016390  0.019155  0.005357  0.000237
2.857143  0.016390  0.019454  0.005530  0.000238
2.901099  0.016390  0.019753  0.005699  0.000238
2.945055  0.016390  0.020052  0.005865  0.000238
2.989011  0.016390  0.020351  0.006031  0.000238
3.000000  0.016390  0.021393  0.011466  0.000243
END FTABLE  8
FTABLE      7
 24    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.016390  0.000000  0.000000  0.000000
0.043956  0.016390  0.000720  0.000000  0.038910
0.087912  0.016390  0.001441  0.000000  0.045751
0.131868  0.016390  0.002161  0.000000  0.049171
0.175824  0.016390  0.002882  0.000000  0.052592
0.219780  0.016390  0.003602  0.000000  0.056013
0.263736  0.016390  0.004323  0.000000  0.059433
0.307692  0.016390  0.005043  0.000000  0.062854
0.351648  0.016390  0.005764  0.000000  0.066275
0.395604  0.016390  0.006484  0.000000  0.069695
0.439560  0.016390  0.007204  0.000000  0.073116
0.483516  0.016390  0.007925  0.000000  0.076537
0.527473  0.016390  0.008645  0.024122  0.079957
0.571429  0.016390  0.009366  0.099620  0.083378
0.615385  0.016390  0.010086  0.194303  0.086798
0.659341  0.016390  0.010807  0.284544  0.090219
0.703297  0.016390  0.011527  0.350332  0.093640
0.747253  0.016390  0.012248  0.387674  0.097060
0.791209  0.016390  0.012968  0.424915  0.100481
0.835165  0.016390  0.013689  0.455857  0.103902
0.879121  0.016390  0.014409  0.484829  0.107322
0.923077  0.016390  0.015129  0.512164  0.110743
0.967033  0.016390  0.015850  0.538113  0.114163
1.000000  0.016390  0.016390  0.562866  0.116729
END FTABLE  7
FTABLE     10
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009000  0.000000  0.000000  0.000000
0.043956  0.009000  0.000159  0.000000  0.000000
0.087912  0.009000  0.000318  0.000000  0.000000
0.131868  0.009000  0.000477  0.000000  0.000000
0.175824  0.009000  0.000636  0.000000  0.000000
0.219780  0.009000  0.000795  0.000000  0.000000
0.263736  0.009000  0.000954  0.000000  0.000000
0.307692  0.009000  0.001113  0.000000  0.000000
0.351648  0.009000  0.001272  0.000000  0.000000
0.395604  0.009000  0.001431  0.000000  0.000000
0.439560  0.009000  0.001590  0.000000  0.000000
0.483516  0.009000  0.001749  0.000099  0.000077
0.527473  0.009000  0.001916  0.000141  0.000085
```

```
0.571429  0.009000  0.002082  0.000196  0.000093
0.615385  0.009000  0.002248  0.000221  0.000095
0.659341  0.009000  0.002414  0.000265  0.000099
0.703297  0.009000  0.002580  0.000285  0.000101
0.747253  0.009000  0.002746  0.000323  0.000103
0.791209  0.009000  0.002912  0.000341  0.000104
0.835165  0.009000  0.003079  0.000375  0.000106
0.879121  0.009000  0.003245  0.000392  0.000107
0.923077  0.009000  0.003411  0.000424  0.000108
0.967033  0.009000  0.003577  0.000439  0.000109
1.010989  0.009000  0.003743  0.000469  0.000110
1.054945  0.009000  0.003909  0.000483  0.000111
1.098901  0.009000  0.004076  0.000511  0.000112
1.142857  0.009000  0.004242  0.000525  0.000112
1.186813  0.009000  0.004408  0.000551  0.000113
1.230769  0.009000  0.004574  0.000564  0.000113
1.274725  0.009000  0.004740  0.000589  0.000114
1.318681  0.009000  0.004906  0.000602  0.000114
1.362637  0.009000  0.005072  0.000626  0.000115
1.406593  0.009000  0.005239  0.000638  0.000115
1.450549  0.009000  0.005405  0.000661  0.000116
1.494505  0.009000  0.005571  0.000672  0.000116
1.538462  0.009000  0.005735  0.000695  0.000117
1.582418  0.009000  0.005899  0.000695  0.000117
1.626374  0.009000  0.006063  0.000695  0.000117
1.670330  0.009000  0.006228  0.000710  0.000117
1.714286  0.009000  0.006392  0.000717  0.000117
1.758242  0.009000  0.006556  0.000721  0.000117
1.802198  0.009000  0.006720  0.000723  0.000117
1.846154  0.009000  0.006884  0.000724  0.000117
1.890110  0.009000  0.007048  0.000748  0.000118
1.934066  0.009000  0.007213  0.000790  0.000118
1.978022  0.009000  0.007377  0.000840  0.000119
2.021978  0.009000  0.007541  0.000891  0.000120
2.065934  0.009000  0.007705  0.000943  0.000121
2.109890  0.009000  0.007869  0.000993  0.000121
2.153846  0.009000  0.008034  0.001042  0.000122
2.197802  0.009000  0.008198  0.001090  0.000122
2.241758  0.009000  0.008362  0.001136  0.000123
2.285714  0.009000  0.008526  0.001180  0.000123
2.329670  0.009000  0.008690  0.001224  0.000124
2.373626  0.009000  0.008854  0.001266  0.000124
2.417582  0.009000  0.009019  0.001307  0.000124
2.461538  0.009000  0.009183  0.001347  0.000125
2.505495  0.009000  0.009347  0.001386  0.000125
2.549451  0.009000  0.009511  0.001424  0.000125
2.593407  0.009000  0.009675  0.001461  0.000125
2.637363  0.009000  0.009839  0.001497  0.000126
2.681319  0.009000  0.010004  0.001533  0.000126
2.725275  0.009000  0.010168  0.001568  0.000126
2.769231  0.009000  0.010332  0.001603  0.000126
2.813187  0.009000  0.010496  0.001637  0.000126
2.857143  0.009000  0.010660  0.001670  0.000127
2.901099  0.009000  0.010825  0.001703  0.000127
2.945055  0.009000  0.010989  0.001736  0.000127
2.989011  0.009000  0.011153  0.001769  0.000127
3.000000  0.009000  0.011436  0.002795  0.000130
END FTABLE 10
FTABLE      9
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009000  0.000000  0.000000  0.000000
0.043956  0.009000  0.000396  0.000000  0.021366
0.087912  0.009000  0.000791  0.000000  0.025122
0.131868  0.009000  0.001187  0.000000  0.027000
0.175824  0.009000  0.001582  0.000000  0.028879
0.219780  0.009000  0.001978  0.000000  0.030757
0.263736  0.009000  0.002374  0.000000  0.032635
0.307692  0.009000  0.002769  0.000000  0.034514
```

```
0.351648  0.009000  0.003165  0.000000  0.036392
0.395604  0.009000  0.003560  0.000000  0.038270
0.439560  0.009000  0.003956  0.000000  0.040148
0.483516  0.009000  0.004352  0.000000  0.042027
0.527473  0.009000  0.004747  0.048301  0.043905
0.571429  0.009000  0.005143  0.202028  0.045783
0.615385  0.009000  0.005538  0.412175  0.047662
0.659341  0.009000  0.005934  0.659695  0.049540
0.703297  0.009000  0.006330  0.928167  0.051418
0.747253  0.009000  0.006725  1.200769  0.053297
0.791209  0.009000  0.007121  1.460630  0.055175
0.835165  0.009000  0.007516  1.692395  0.057053
0.879121  0.009000  0.007912  1.884482  0.058931
0.923077  0.009000  0.008308  2.031838  0.060810
0.967033  0.009000  0.008703  2.139092  0.062688
1.000000  0.009000  0.009000  2.251466  0.064097
END FTABLE  9
FTABLE     12
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.005487  0.000000  0.000000  0.000000
0.043956  0.005487  0.000097  0.000000  0.000000
0.087912  0.005487  0.000194  0.000000  0.000000
0.131868  0.005487  0.000291  0.000000  0.000000
0.175824  0.005487  0.000388  0.000000  0.000000
0.219780  0.005487  0.000485  0.000000  0.000000
0.263736  0.005487  0.000582  0.000000  0.000000
0.307692  0.005487  0.000679  0.000000  0.000000
0.351648  0.005487  0.000776  0.000000  0.000000
0.395604  0.005487  0.000873  0.000000  0.000000
0.439560  0.005487  0.000970  0.000000  0.000000
0.483516  0.005487  0.001067  0.000000  0.000000
0.527473  0.005487  0.001168  0.000347  0.000055
0.571429  0.005487  0.001269  0.000364  0.000070
0.615385  0.005487  0.001370  0.000372  0.000070
0.659341  0.005487  0.001472  0.000434  0.000071
0.703297  0.005487  0.001573  0.000464  0.000072
0.747253  0.005487  0.001674  0.000528  0.000073
0.791209  0.005487  0.001776  0.000559  0.000073
0.835165  0.005487  0.001877  0.000618  0.000074
0.879121  0.005487  0.001978  0.000647  0.000074
0.923077  0.005487  0.002079  0.000700  0.000075
0.967033  0.005487  0.002181  0.000726  0.000075
1.010989  0.005487  0.002282  0.000775  0.000076
1.054945  0.005487  0.002383  0.000799  0.000076
1.098901  0.005487  0.002485  0.000844  0.000076
1.142857  0.005487  0.002586  0.000866  0.000076
1.186813  0.005487  0.002687  0.000908  0.000077
1.230769  0.005487  0.002789  0.000929  0.000077
1.274725  0.005487  0.002890  0.000969  0.000077
1.318681  0.005487  0.002991  0.000989  0.000077
1.362637  0.005487  0.003092  0.001027  0.000077
1.406593  0.005487  0.003194  0.001046  0.000077
1.450549  0.005487  0.003295  0.001082  0.000077
1.494505  0.005487  0.003396  0.001099  0.000078
1.538462  0.005487  0.003498  0.001134  0.000078
1.582418  0.005487  0.003599  0.001151  0.000078
1.626374  0.005487  0.003700  0.001184  0.000078
1.670330  0.005487  0.003802  0.001201  0.000078
1.714286  0.005487  0.003903  0.001233  0.000078
1.758242  0.005487  0.004004  0.001249  0.000078
1.802198  0.005487  0.004105  0.001280  0.000078
1.846154  0.005487  0.004207  0.001295  0.000078
1.890110  0.005487  0.004308  0.001325  0.000078
1.934066  0.005487  0.004409  0.001340  0.000078
1.978022  0.005487  0.004511  0.001369  0.000078
2.021978  0.005487  0.004611  0.001384  0.000079
2.065934  0.005487  0.004711  0.001396  0.000079
2.109890  0.005487  0.004811  0.001402  0.000079
```

```
2.153846  0.005487  0.004911  0.001426  0.000079
2.197802  0.005487  0.005011  0.001438  0.000079
2.241758  0.005487  0.005111  0.001465  0.000079
2.285714  0.005487  0.005211  0.001478  0.000079
2.329670  0.005487  0.005311  0.001484  0.000079
2.373626  0.005487  0.005411  0.001488  0.000079
2.417582  0.005487  0.005512  0.001489  0.000079
2.461538  0.005487  0.005612  0.001490  0.000079
2.505495  0.005487  0.005712  0.001505  0.000079
2.549451  0.005487  0.005812  0.001552  0.000079
2.593407  0.005487  0.005912  0.001612  0.000079
2.637363  0.005487  0.006012  0.001677  0.000079
2.681319  0.005487  0.006112  0.001744  0.000079
2.725275  0.005487  0.006212  0.001811  0.000079
2.769231  0.005487  0.006312  0.001876  0.000080
2.813187  0.005487  0.006412  0.001940  0.000080
2.857143  0.005487  0.006512  0.002002  0.000080
2.901099  0.005487  0.006613  0.002063  0.000080
2.945055  0.005487  0.006713  0.002123  0.000080
2.989011  0.005487  0.006813  0.002183  0.000080
3.000000  0.005487  0.007186  0.004134  0.000081
END FTABLE 12
FTABLE     11
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.005487  0.000000  0.000000  0.000000
0.043956  0.005487  0.000241  0.000000  0.013026
0.087912  0.005487  0.000482  0.000000  0.015316
0.131868  0.005487  0.000724  0.000000  0.016461
0.175824  0.005487  0.000965  0.000000  0.017606
0.219780  0.005487  0.001206  0.000000  0.018751
0.263736  0.005487  0.001447  0.000000  0.019896
0.307692  0.005487  0.001688  0.000000  0.021042
0.351648  0.005487  0.001929  0.000000  0.022187
0.395604  0.005487  0.002171  0.000000  0.023332
0.439560  0.005487  0.002412  0.000000  0.024477
0.483516  0.005487  0.002653  0.000000  0.025622
0.527473  0.005487  0.002894  0.024122  0.026767
0.571429  0.005487  0.003135  0.099620  0.027912
0.615385  0.005487  0.003377  0.194303  0.029057
0.659341  0.005487  0.003618  0.284544  0.030203
0.703297  0.005487  0.003859  0.350332  0.031348
0.747253  0.005487  0.004100  0.387674  0.032493
0.791209  0.005487  0.004341  0.424915  0.033638
0.835165  0.005487  0.004583  0.455857  0.034783
0.879121  0.005487  0.004824  0.484829  0.035928
0.923077  0.005487  0.005065  0.512164  0.037073
0.967033  0.005487  0.005306  0.538113  0.038218
1.000000  0.005487  0.005487  0.562866  0.039077
END FTABLE 11
FTABLE     14
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009109  0.000000  0.000000  0.000000
0.043956  0.009109  0.000161  0.000000  0.000000
0.087912  0.009109  0.000322  0.000000  0.000000
0.131868  0.009109  0.000483  0.000000  0.000000
0.175824  0.009109  0.000644  0.000000  0.000000
0.219780  0.009109  0.000805  0.000000  0.000000
0.263736  0.009109  0.000966  0.000000  0.000000
0.307692  0.009109  0.001127  0.000000  0.000000
0.351648  0.009109  0.001288  0.000000  0.000000
0.395604  0.009109  0.001449  0.000000  0.000000
0.439560  0.009109  0.001610  0.000000  0.000000
0.483516  0.009109  0.001771  0.000000  0.000000
0.527473  0.009109  0.001939  0.000170  0.000090
0.571429  0.009109  0.002107  0.000246  0.000098
0.615385  0.009109  0.002275  0.000337  0.000105
```

```
0.659341  0.009109  0.002443  0.000380  0.000107
0.703297  0.009109  0.002612  0.000449  0.000111
0.747253  0.009109  0.002780  0.000481  0.000112
0.791209  0.009109  0.002948  0.000539  0.000114
0.835165  0.009109  0.003116  0.000567  0.000115
0.879121  0.009109  0.003284  0.000619  0.000116
0.923077  0.009109  0.003452  0.000644  0.000117
0.967033  0.009109  0.003621  0.000692  0.000118
1.010989  0.009109  0.003789  0.000715  0.000118
1.054945  0.009109  0.003957  0.000759  0.000119
1.098901  0.009109  0.004125  0.000781  0.000119
1.142857  0.009109  0.004293  0.000822  0.000120
1.186813  0.009109  0.004461  0.000842  0.000121
1.230769  0.009109  0.004630  0.000881  0.000121
1.274725  0.009109  0.004798  0.000901  0.000121
1.318681  0.009109  0.004966  0.000938  0.000122
1.362637  0.009109  0.005134  0.000956  0.000122
1.406593  0.009109  0.005302  0.000992  0.000123
1.450549  0.009109  0.005470  0.001009  0.000123
1.494505  0.009109  0.005639  0.001043  0.000123
1.538462  0.009109  0.005807  0.001060  0.000123
1.582418  0.009109  0.005975  0.001093  0.000124
1.626374  0.009109  0.006143  0.001109  0.000124
1.670330  0.009109  0.006311  0.001141  0.000124
1.714286  0.009109  0.006480  0.001156  0.000124
1.758242  0.009109  0.006648  0.001187  0.000125
1.802198  0.009109  0.006816  0.001202  0.000125
1.846154  0.009109  0.006984  0.001232  0.000125
1.890110  0.009109  0.007152  0.001247  0.000125
1.934066  0.009109  0.007320  0.001275  0.000125
1.978022  0.009109  0.007489  0.001290  0.000126
2.021978  0.009109  0.007655  0.001318  0.000126
2.065934  0.009109  0.007821  0.001318  0.000126
2.109890  0.009109  0.007987  0.001318  0.000126
2.153846  0.009109  0.008153  0.001337  0.000126
2.197802  0.009109  0.008319  0.001346  0.000126
2.241758  0.009109  0.008486  0.001371  0.000126
2.285714  0.009109  0.008652  0.001384  0.000126
2.329670  0.009109  0.008818  0.001390  0.000126
2.373626  0.009109  0.008984  0.001393  0.000126
2.417582  0.009109  0.009150  0.001394  0.000126
2.461538  0.009109  0.009316  0.001395  0.000126
2.505495  0.009109  0.009483  0.001410  0.000126
2.549451  0.009109  0.009649  0.001456  0.000127
2.593407  0.009109  0.009815  0.001516  0.000127
2.637363  0.009109  0.009981  0.001581  0.000127
2.681319  0.009109  0.010147  0.001648  0.000128
2.725275  0.009109  0.010313  0.001714  0.000128
2.769231  0.009109  0.010480  0.001779  0.000128
2.813187  0.009109  0.010646  0.001842  0.000129
2.857143  0.009109  0.010812  0.001904  0.000129
2.901099  0.009109  0.010978  0.001965  0.000129
2.945055  0.009109  0.011144  0.002024  0.000129
2.989011  0.009109  0.011310  0.002084  0.000130
3.000000  0.009109  0.011700  0.004082  0.000133
END FTABLE 14
FTABLE     13
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009109  0.000000  0.000000  0.000000
0.043956  0.009109  0.000400  0.000000  0.021625
0.087912  0.009109  0.000801  0.000000  0.025428
0.131868  0.009109  0.001201  0.000000  0.027329
0.175824  0.009109  0.001602  0.000000  0.029230
0.219780  0.009109  0.002002  0.000000  0.031131
0.263736  0.009109  0.002402  0.000000  0.033032
0.307692  0.009109  0.002803  0.000000  0.034933
0.351648  0.009109  0.003203  0.000000  0.036834
0.395604  0.009109  0.003604  0.000000  0.038735
```

```
0.439560  0.009109  0.004004  0.000000  0.040637
0.483516  0.009109  0.004405  0.000000  0.042538
0.527473  0.009109  0.004805  0.024122  0.044439
0.571429  0.009109  0.005205  0.099620  0.046340
0.615385  0.009109  0.005606  0.194303  0.048241
0.659341  0.009109  0.006006  0.284544  0.050142
0.703297  0.009109  0.006407  0.350332  0.052043
0.747253  0.009109  0.006807  0.387674  0.053945
0.791209  0.009109  0.007207  0.424915  0.055846
0.835165  0.009109  0.007608  0.455857  0.057747
0.879121  0.009109  0.008008  0.484829  0.059648
0.923077  0.009109  0.008409  0.512164  0.061549
0.967033  0.009109  0.008809  0.538113  0.063450
1.000000  0.009109  0.009109  0.562866  0.064876
END FTABLE 13
FTABLE     16
 70    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.002296  0.000000  0.000000  0.000000
0.043956  0.002296  0.000041  0.000000  0.000000
0.087912  0.002296  0.000081  0.000000  0.000000
0.131868  0.002296  0.000122  0.000000  0.000000
0.175824  0.002296  0.000162  0.000000  0.000000
0.219780  0.002296  0.000203  0.000000  0.000000
0.263736  0.002296  0.000243  0.000000  0.000000
0.307692  0.002296  0.000284  0.000000  0.000000
0.351648  0.002296  0.000325  0.000000  0.000000
0.395604  0.002296  0.000365  0.000000  0.000000
0.439560  0.002296  0.000406  0.000000  0.000000
0.483516  0.002296  0.000446  0.000000  0.000000
0.527473  0.002296  0.000489  0.000028  0.000020
0.571429  0.002296  0.000531  0.000041  0.000022
0.615385  0.002296  0.000573  0.000056  0.000024
0.659341  0.002296  0.000616  0.000063  0.000025
0.703297  0.002296  0.000658  0.000075  0.000026
0.747253  0.002296  0.000701  0.000081  0.000026
0.791209  0.002296  0.000743  0.000091  0.000027
0.835165  0.002296  0.000785  0.000096  0.000027
0.879121  0.002296  0.000828  0.000105  0.000028
0.923077  0.002296  0.000870  0.000110  0.000028
0.967033  0.002296  0.000912  0.000118  0.000028
1.010989  0.002296  0.000955  0.000122  0.000028
1.054945  0.002296  0.000997  0.000130  0.000028
1.098901  0.002296  0.001040  0.000134  0.000029
1.142857  0.002296  0.001082  0.000142  0.000029
1.186813  0.002296  0.001124  0.000146  0.000029
1.230769  0.002296  0.001167  0.000153  0.000029
1.274725  0.002296  0.001209  0.000156  0.000029
1.318681  0.002296  0.001251  0.000163  0.000029
1.362637  0.002296  0.001294  0.000167  0.000029
1.406593  0.002296  0.001336  0.000173  0.000030
1.450549  0.002296  0.001379  0.000176  0.000030
1.494505  0.002296  0.001421  0.000183  0.000030
1.538462  0.002296  0.001463  0.000186  0.000030
1.582418  0.002296  0.001506  0.000192  0.000030
1.626374  0.002296  0.001548  0.000195  0.000030
1.670330  0.002296  0.001591  0.000201  0.000030
1.714286  0.002296  0.001633  0.000203  0.000030
1.758242  0.002296  0.001675  0.000209  0.000030
1.802198  0.002296  0.001718  0.000212  0.000030
1.846154  0.002296  0.001760  0.000217  0.000030
1.890110  0.002296  0.001802  0.000220  0.000030
1.934066  0.002296  0.001845  0.000226  0.000031
1.978022  0.002296  0.001887  0.000228  0.000031
2.021978  0.002296  0.001929  0.000233  0.000031
2.065934  0.002296  0.001971  0.000233  0.000031
2.109890  0.002296  0.002013  0.000233  0.000031
2.153846  0.002296  0.002055  0.000237  0.000031
2.197802  0.002296  0.002097  0.000239  0.000031
```

2.241758	0.002296	0.002138	0.000243	0.000031
2.285714	0.002296	0.002180	0.000246	0.000031
2.329670	0.002296	0.002222	0.000247	0.000031
2.373626	0.002296	0.002264	0.000247	0.000031
2.417582	0.002296	0.002306	0.000248	0.000031
2.461538	0.002296	0.002348	0.000248	0.000031
2.505495	0.002296	0.002390	0.000251	0.000031
2.549451	0.002296	0.002432	0.000259	0.000031
2.593407	0.002296	0.002473	0.000270	0.000031
2.637363	0.002296	0.002515	0.000282	0.000031
2.681319	0.002296	0.002557	0.000295	0.000031
2.725275	0.002296	0.002599	0.000307	0.000031
2.769231	0.002296	0.002641	0.000319	0.000032
2.813187	0.002296	0.002683	0.000331	0.000032
2.857143	0.002296	0.002725	0.000343	0.000032
2.901099	0.002296	0.002767	0.000354	0.000032
2.945055	0.002296	0.002809	0.000365	0.000032
2.989011	0.002296	0.002850	0.000376	0.000032
3.000000	0.002296	0.002926	0.000758	0.000033

END FTABLE 16

FTABLE 15

24 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	0.000000	0.000000		
0.043956	0.002296	0.000101	0.000000	0.005450		
0.087912	0.002296	0.000202	0.000000	0.006408		
0.131868	0.002296	0.000303	0.000000	0.006887		
0.175824	0.002296	0.000404	0.000000	0.007366		
0.219780	0.002296	0.000505	0.000000	0.007845		
0.263736	0.002296	0.000605	0.000000	0.008324		
0.307692	0.002296	0.000706	0.000000	0.008804		
0.351648	0.002296	0.000807	0.000000	0.009283		
0.395604	0.002296	0.000908	0.000000	0.009762		
0.439560	0.002296	0.001009	0.000000	0.010241		
0.483516	0.002296	0.001110	0.000000	0.010720		
0.527473	0.002296	0.001211	0.024122	0.011199		
0.571429	0.002296	0.001312	0.099620	0.011678		
0.615385	0.002296	0.001413	0.194303	0.012157		
0.659341	0.002296	0.001514	0.284544	0.012636		
0.703297	0.002296	0.001615	0.350332	0.013116		
0.747253	0.002296	0.001715	0.387674	0.013595		
0.791209	0.002296	0.001816	0.424915	0.014074		
0.835165	0.002296	0.001917	0.455857	0.014553		
0.879121	0.002296	0.002018	0.484829	0.015032		
0.923077	0.002296	0.002119	0.512164	0.015511		
0.967033	0.002296	0.002220	0.538113	0.015990		
1.000000	0.002296	0.002296	0.562866	0.016350		

END FTABLE 15

FTABLE 18

70 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.021976	0.000000	0.000000	0.000000		
0.043956	0.021976	0.000388	0.000000	0.000000		
0.087912	0.021976	0.000777	0.000000	0.000000		
0.131868	0.021976	0.001165	0.000000	0.000000		
0.175824	0.021976	0.001553	0.000000	0.000000		
0.219780	0.021976	0.001942	0.000000	0.000000		
0.263736	0.021976	0.002330	0.000000	0.000000		
0.307692	0.021976	0.002718	0.000000	0.000000		
0.351648	0.021976	0.003107	0.000000	0.000000		
0.395604	0.021976	0.003495	0.000000	0.000000		
0.439560	0.021976	0.003883	0.000000	0.000000		
0.483516	0.021976	0.004272	0.000000	0.000000		
0.527473	0.021976	0.004677	0.000494	0.000228		
0.571429	0.021976	0.005083	0.000721	0.000247		
0.615385	0.021976	0.005489	0.000985	0.000262		
0.659341	0.021976	0.005894	0.001111	0.000268		
0.703297	0.021976	0.006300	0.001306	0.000275		

```
0.747253  0.021976  0.006706  0.001400  0.000277
0.791209  0.021976  0.007112  0.001564  0.000282
0.835165  0.021976  0.007517  0.001644  0.000283
0.879121  0.021976  0.007923  0.001789  0.000287
0.923077  0.021976  0.008329  0.001861  0.000288
0.967033  0.021976  0.008734  0.001994  0.000290
1.010989  0.021976  0.009140  0.002059  0.000291
1.054945  0.021976  0.009546  0.002183  0.000293
1.098901  0.021976  0.009952  0.002244  0.000294
1.142857  0.021976  0.010357  0.002359  0.000295
1.186813  0.021976  0.010763  0.002416  0.000296
1.230769  0.021976  0.011169  0.002526  0.000297
1.274725  0.021976  0.011574  0.002580  0.000298
1.318681  0.021976  0.011980  0.002684  0.000299
1.362637  0.021976  0.012386  0.002735  0.000300
1.406593  0.021976  0.012792  0.002834  0.000301
1.450549  0.021976  0.013197  0.002884  0.000301
1.494505  0.021976  0.013603  0.002979  0.000302
1.538462  0.021976  0.014009  0.003026  0.000302
1.582418  0.021976  0.014414  0.003117  0.000303
1.626374  0.021976  0.014820  0.003163  0.000303
1.670330  0.021976  0.015226  0.003251  0.000304
1.714286  0.021976  0.015632  0.003295  0.000304
1.758242  0.021976  0.016037  0.003380  0.000305
1.802198  0.021976  0.016443  0.003422  0.000305
1.846154  0.021976  0.016849  0.003505  0.000306
1.890110  0.021976  0.017254  0.003546  0.000306
1.934066  0.021976  0.017660  0.003626  0.000306
1.978022  0.021976  0.018066  0.003666  0.000307
2.021978  0.021976  0.018467  0.003744  0.000307
2.065934  0.021976  0.018868  0.003744  0.000307
2.109890  0.021976  0.019269  0.003744  0.000307
2.153846  0.021976  0.019669  0.003797  0.000307
2.197802  0.021976  0.020070  0.003824  0.000308
2.241758  0.021976  0.020471  0.003893  0.000308
2.285714  0.021976  0.020872  0.003928  0.000308
2.329670  0.021976  0.021273  0.003945  0.000308
2.373626  0.021976  0.021674  0.003954  0.000308
2.417582  0.021976  0.022075  0.003958  0.000308
2.461538  0.021976  0.022476  0.003960  0.000308
2.505495  0.021976  0.022877  0.004003  0.000309
2.549451  0.021976  0.023277  0.004131  0.000309
2.593407  0.021976  0.023678  0.004297  0.000310
2.637363  0.021976  0.024079  0.004478  0.000311
2.681319  0.021976  0.024480  0.004663  0.000312
2.725275  0.021976  0.024881  0.004848  0.000312
2.769231  0.021976  0.025282  0.005028  0.000313
2.813187  0.021976  0.025683  0.005205  0.000314
2.857143  0.021976  0.026084  0.005378  0.000314
2.901099  0.021976  0.026484  0.005546  0.000315
2.945055  0.021976  0.026885  0.005712  0.000315
2.989011  0.021976  0.027286  0.005878  0.000315
3.000000  0.021976  0.028354  0.011385  0.000323
END FTABLE 18
FTABLE     17
 24    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)      (cfs)   (ft/sec)     (Minutes)***
0.000000  0.021976  0.000000  0.000000  0.000000
0.043956  0.021976  0.000966  0.000000  0.052170
0.087912  0.021976  0.001932  0.000000  0.061343
0.131868  0.021976  0.002898  0.000000  0.065930
0.175824  0.021976  0.003864  0.000000  0.070516
0.219780  0.021976  0.004830  0.000000  0.075103
0.263736  0.021976  0.005796  0.000000  0.079689
0.307692  0.021976  0.006762  0.000000  0.084275
0.351648  0.021976  0.007728  0.000000  0.088862
0.395604  0.021976  0.008694  0.000000  0.093448
0.439560  0.021976  0.009660  0.000000  0.098035
0.483516  0.021976  0.010626  0.000000  0.102621
```

```
0.527473  0.021976  0.011592  0.048301  0.107207
0.571429  0.021976  0.012558  0.202028  0.111794
0.615385  0.021976  0.013524  0.412175  0.116380
0.659341  0.021976  0.014490  0.659695  0.120967
0.703297  0.021976  0.015456  0.928167  0.125553
0.747253  0.021976  0.016422  1.200769  0.130140
0.791209  0.021976  0.017388  1.460630  0.134726
0.835165  0.021976  0.018354  1.692395  0.139312
0.879121  0.021976  0.019320  1.884482  0.143899
0.923077  0.021976  0.020286  2.031838  0.148485
0.967033  0.021976  0.021252  2.139092  0.153072
1.000000  0.021976  0.021976  2.251466  0.156511
END FTABLE 17
FTABLE     20
 70    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.004681  0.000000  0.000000  0.000000
0.043956  0.004681  0.000083  0.000000  0.000000
0.087912  0.004681  0.000165  0.000000  0.000000
0.131868  0.004681  0.000248  0.000000  0.000000
0.175824  0.004681  0.000331  0.000000  0.000000
0.219780  0.004681  0.000414  0.000000  0.000000
0.263736  0.004681  0.000496  0.000000  0.000000
0.307692  0.004681  0.000579  0.000000  0.000000
0.351648  0.004681  0.000662  0.000000  0.000000
0.395604  0.004681  0.000744  0.000000  0.000000
0.439560  0.004681  0.000827  0.000000  0.000000
0.483516  0.004681  0.000910  0.000000  0.000000
0.527473  0.004681  0.000996  0.000020  0.000029
0.571429  0.004681  0.001083  0.000027  0.000032
0.615385  0.004681  0.001169  0.000037  0.000036
0.659341  0.004681  0.001256  0.000041  0.000037
0.703297  0.004681  0.001342  0.000050  0.000040
0.747253  0.004681  0.001428  0.000054  0.000040
0.791209  0.004681  0.001515  0.000062  0.000042
0.835165  0.004681  0.001601  0.000066  0.000043
0.879121  0.004681  0.001688  0.000073  0.000044
0.923077  0.004681  0.001774  0.000077  0.000045
0.967033  0.004681  0.001861  0.000084  0.000046
1.010989  0.004681  0.001947  0.000087  0.000046
1.054945  0.004681  0.002033  0.000094  0.000047
1.098901  0.004681  0.002120  0.000097  0.000048
1.142857  0.004681  0.002206  0.000104  0.000048
1.186813  0.004681  0.002293  0.000107  0.000049
1.230769  0.004681  0.002379  0.000113  0.000049
1.274725  0.004681  0.002466  0.000116  0.000050
1.318681  0.004681  0.002552  0.000122  0.000050
1.362637  0.004681  0.002638  0.000125  0.000050
1.406593  0.004681  0.002725  0.000131  0.000051
1.450549  0.004681  0.002811  0.000134  0.000051
1.494505  0.004681  0.002898  0.000140  0.000052
1.538462  0.004681  0.002984  0.000142  0.000052
1.582418  0.004681  0.003071  0.000148  0.000052
1.626374  0.004681  0.003157  0.000150  0.000052
1.670330  0.004681  0.003243  0.000156  0.000053
1.714286  0.004681  0.003330  0.000158  0.000053
1.758242  0.004681  0.003416  0.000163  0.000053
1.802198  0.004681  0.003503  0.000166  0.000054
1.846154  0.004681  0.003589  0.000171  0.000054
1.890110  0.004681  0.003676  0.000173  0.000054
1.934066  0.004681  0.003762  0.000178  0.000054
1.978022  0.004681  0.003848  0.000181  0.000054
2.021978  0.004681  0.003934  0.000186  0.000055
2.065934  0.004681  0.004019  0.000186  0.000055
2.109890  0.004681  0.004105  0.000186  0.000055
2.153846  0.004681  0.004190  0.000189  0.000055
2.197802  0.004681  0.004275  0.000190  0.000055
2.241758  0.004681  0.004361  0.000195  0.000055
2.285714  0.004681  0.004446  0.000197  0.000055
```

```
2.329670  0.004681  0.004532  0.000198  0.000055
2.373626  0.004681  0.004617  0.000198  0.000055
2.417582  0.004681  0.004702  0.000199  0.000055
2.461538  0.004681  0.004788  0.000199  0.000055
2.505495  0.004681  0.004873  0.000201  0.000056
2.549451  0.004681  0.004958  0.000210  0.000056
2.593407  0.004681  0.005044  0.000220  0.000056
2.637363  0.004681  0.005129  0.000232  0.000057
2.681319  0.004681  0.005215  0.000244  0.000057
2.725275  0.004681  0.005300  0.000255  0.000058
2.769231  0.004681  0.005385  0.000267  0.000058
2.813187  0.004681  0.005471  0.000278  0.000058
2.857143  0.004681  0.005556  0.000289  0.000059
2.901099  0.004681  0.005642  0.000300  0.000059
2.945055  0.004681  0.005727  0.000310  0.000059
2.989011  0.004681  0.005812  0.000321  0.000060
3.000000  0.004681  0.005899  0.000727  0.000065
END FTABLE 20
FTABLE     19
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.004681  0.000000  0.000000  0.000000
0.043956  0.004681  0.000206  0.000000  0.011113
0.087912  0.004681  0.000412  0.000000  0.013067
0.131868  0.004681  0.000617  0.000000  0.014044
0.175824  0.004681  0.000823  0.000000  0.015021
0.219780  0.004681  0.001029  0.000000  0.015998
0.263736  0.004681  0.001235  0.000000  0.016975
0.307692  0.004681  0.001440  0.000000  0.017952
0.351648  0.004681  0.001646  0.000000  0.018929
0.395604  0.004681  0.001852  0.000000  0.019906
0.439560  0.004681  0.002058  0.000000  0.020883
0.483516  0.004681  0.002263  0.000000  0.021860
0.527473  0.004681  0.002469  0.024122  0.022837
0.571429  0.004681  0.002675  0.099620  0.023814
0.615385  0.004681  0.002881  0.194303  0.024791
0.659341  0.004681  0.003087  0.284544  0.025768
0.703297  0.004681  0.003292  0.350332  0.026745
0.747253  0.004681  0.003498  0.387674  0.027722
0.791209  0.004681  0.003704  0.424915  0.028699
0.835165  0.004681  0.003910  0.455857  0.029676
0.879121  0.004681  0.004115  0.484829  0.030653
0.923077  0.004681  0.004321  0.512164  0.031630
0.967033  0.004681  0.004527  0.538113  0.032607
1.000000  0.004681  0.004681  0.562866  0.033340
END FTABLE 19
FTABLE     22
 70    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.007323  0.000000  0.000000  0.000000
0.043956  0.007323  0.000129  0.000000  0.000000
0.087912  0.007323  0.000259  0.000000  0.000000
0.131868  0.007323  0.000388  0.000000  0.000000
0.175824  0.007323  0.000518  0.000000  0.000000
0.219780  0.007323  0.000647  0.000000  0.000000
0.263736  0.007323  0.000776  0.000000  0.000000
0.307692  0.007323  0.000906  0.000000  0.000000
0.351648  0.007323  0.001035  0.000000  0.000000
0.395604  0.007323  0.001165  0.000000  0.000000
0.439560  0.007323  0.001294  0.000000  0.000000
0.483516  0.007323  0.001423  0.000000  0.000000
0.527473  0.007323  0.001559  0.000112  0.000069
0.571429  0.007323  0.001694  0.000161  0.000075
0.615385  0.007323  0.001829  0.000221  0.000081
0.659341  0.007323  0.001964  0.000249  0.000083
0.703297  0.007323  0.002099  0.000295  0.000086
0.747253  0.007323  0.002234  0.000317  0.000087
0.791209  0.007323  0.002370  0.000356  0.000089
```

```
0.835165  0.007323  0.002505  0.000375  0.000089
0.879121  0.007323  0.002640  0.000410  0.000091
0.923077  0.007323  0.002775  0.000427  0.000091
0.967033  0.007323  0.002910  0.000460  0.000092
1.010989  0.007323  0.003046  0.000476  0.000093
1.054945  0.007323  0.003181  0.000506  0.000093
1.098901  0.007323  0.003316  0.000521  0.000094
1.142857  0.007323  0.003451  0.000549  0.000094
1.186813  0.007323  0.003586  0.000563  0.000095
1.230769  0.007323  0.003722  0.000590  0.000095
1.274725  0.007323  0.003857  0.000603  0.000096
1.318681  0.007323  0.003992  0.000629  0.000096
1.362637  0.007323  0.004127  0.000641  0.000096
1.406593  0.007323  0.004262  0.000666  0.000097
1.450549  0.007323  0.004398  0.000678  0.000097
1.494505  0.007323  0.004533  0.000701  0.000097
1.538462  0.007323  0.004668  0.000713  0.000097
1.582418  0.007323  0.004803  0.000736  0.000098
1.626374  0.007323  0.004938  0.000747  0.000098
1.670330  0.007323  0.005073  0.000769  0.000098
1.714286  0.007323  0.005209  0.000779  0.000098
1.758242  0.007323  0.005344  0.000800  0.000099
1.802198  0.007323  0.005479  0.000811  0.000099
1.846154  0.007323  0.005614  0.000831  0.000099
1.890110  0.007323  0.005749  0.000841  0.000099
1.934066  0.007323  0.005885  0.000861  0.000099
1.978022  0.007323  0.006020  0.000871  0.000099
2.021978  0.007323  0.006153  0.000891  0.000100
2.065934  0.007323  0.006287  0.000891  0.000100
2.109890  0.007323  0.006421  0.000891  0.000100
2.153846  0.007323  0.006554  0.000904  0.000100
2.197802  0.007323  0.006688  0.000910  0.000100
2.241758  0.007323  0.006821  0.000928  0.000100
2.285714  0.007323  0.006955  0.000936  0.000100
2.329670  0.007323  0.007088  0.000940  0.000100
2.373626  0.007323  0.007222  0.000942  0.000100
2.417582  0.007323  0.007356  0.000943  0.000100
2.461538  0.007323  0.007489  0.000944  0.000100
2.505495  0.007323  0.007623  0.000955  0.000100
2.549451  0.007323  0.007756  0.000986  0.000101
2.593407  0.007323  0.007890  0.001028  0.000101
2.637363  0.007323  0.008023  0.001073  0.000101
2.681319  0.007323  0.008157  0.001119  0.000102
2.725275  0.007323  0.008291  0.001165  0.000102
2.769231  0.007323  0.008424  0.001210  0.000102
2.813187  0.007323  0.008558  0.001254  0.000102
2.857143  0.007323  0.008691  0.001296  0.000103
2.901099  0.007323  0.008825  0.001338  0.000103
2.945055  0.007323  0.008959  0.001380  0.000103
2.989011  0.007323  0.009092  0.001421  0.000103
3.000000  0.007323  0.009367  0.002820  0.000107
END FTABLE 22
FTABLE     21
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.007323  0.000000  0.000000  0.000000
0.043956  0.007323  0.000322  0.000000  0.017384
0.087912  0.007323  0.000644  0.000000  0.020440
0.131868  0.007323  0.000966  0.000000  0.021969
0.175824  0.007323  0.001288  0.000000  0.023497
0.219780  0.007323  0.001609  0.000000  0.025025
0.263736  0.007323  0.001931  0.000000  0.026553
0.307692  0.007323  0.002253  0.000000  0.028082
0.351648  0.007323  0.002575  0.000000  0.029610
0.395604  0.007323  0.002897  0.000000  0.031138
0.439560  0.007323  0.003219  0.000000  0.032666
0.483516  0.007323  0.003541  0.000000  0.034195
0.527473  0.007323  0.003863  0.024122  0.035723
0.571429  0.007323  0.004184  0.099620  0.037251
```

```
0.615385  0.007323  0.004506  0.194303  0.038779
0.659341  0.007323  0.004828  0.284544  0.040308
0.703297  0.007323  0.005150  0.350332  0.041836
0.747253  0.007323  0.005472  0.387674  0.043364
0.791209  0.007323  0.005794  0.424915  0.044892
0.835165  0.007323  0.006116  0.455857  0.046421
0.879121  0.007323  0.006438  0.484829  0.047949
0.923077  0.007323  0.006759  0.512164  0.049477
0.967033  0.007323  0.007081  0.538113  0.051005
1.000000  0.007323  0.007323  0.562866  0.052152
END FTABLE 21
FTABLE     24
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.006998  0.000000  0.000000  0.000000
0.043956  0.006998  0.000124  0.000000  0.000000
0.087912  0.006998  0.000247  0.000000  0.000000
0.131868  0.006998  0.000371  0.000000  0.000000
0.175824  0.006998  0.000495  0.000000  0.000000
0.219780  0.006998  0.000618  0.000000  0.000000
0.263736  0.006998  0.000742  0.000000  0.000000
0.307692  0.006998  0.000866  0.000000  0.000000
0.351648  0.006998  0.000989  0.000000  0.000000
0.395604  0.006998  0.001113  0.000000  0.000000
0.439560  0.006998  0.001237  0.000000  0.000000
0.483516  0.006998  0.001360  0.000000  0.000000
0.527473  0.006998  0.001490  0.000114  0.000067
0.571429  0.006998  0.001619  0.000164  0.000073
0.615385  0.006998  0.001748  0.000225  0.000078
0.659341  0.006998  0.001877  0.000254  0.000080
0.703297  0.006998  0.002006  0.000300  0.000083
0.747253  0.006998  0.002136  0.000322  0.000084
0.791209  0.006998  0.002265  0.000362  0.000086
0.835165  0.006998  0.002394  0.000381  0.000086
0.879121  0.006998  0.002523  0.000416  0.000087
0.923077  0.006998  0.002652  0.000434  0.000088
0.967033  0.006998  0.002782  0.000466  0.000089
1.010989  0.006998  0.002911  0.000482  0.000089
1.054945  0.006998  0.003040  0.000513  0.000090
1.098901  0.006998  0.003169  0.000527  0.000090
1.142857  0.006998  0.003298  0.000556  0.000091
1.186813  0.006998  0.003428  0.000570  0.000091
1.230769  0.006998  0.003557  0.000597  0.000092
1.274725  0.006998  0.003686  0.000610  0.000092
1.318681  0.006998  0.003815  0.000636  0.000092
1.362637  0.006998  0.003944  0.000649  0.000093
1.406593  0.006998  0.004074  0.000673  0.000093
1.450549  0.006998  0.004203  0.000685  0.000093
1.494505  0.006998  0.004332  0.000709  0.000094
1.538462  0.006998  0.004461  0.000720  0.000094
1.582418  0.006998  0.004590  0.000743  0.000094
1.626374  0.006998  0.004720  0.000754  0.000094
1.670330  0.006998  0.004849  0.000776  0.000094
1.714286  0.006998  0.004978  0.000787  0.000095
1.758242  0.006998  0.005107  0.000808  0.000095
1.802198  0.006998  0.005236  0.000819  0.000095
1.846154  0.006998  0.005366  0.000839  0.000095
1.890110  0.006998  0.005495  0.000849  0.000095
1.934066  0.006998  0.005624  0.000869  0.000095
1.978022  0.006998  0.005753  0.000879  0.000095
2.021978  0.006998  0.005881  0.000898  0.000096
2.065934  0.006998  0.006008  0.000898  0.000096
2.109890  0.006998  0.006136  0.000898  0.000096
2.153846  0.006998  0.006264  0.000912  0.000096
2.197802  0.006998  0.006391  0.000918  0.000096
2.241758  0.006998  0.006519  0.000935  0.000096
2.285714  0.006998  0.006647  0.000944  0.000096
2.329670  0.006998  0.006774  0.000948  0.000096
2.373626  0.006998  0.006902  0.000950  0.000096
```

```
2.417582  0.006998  0.007030  0.000951  0.000096
2.461538  0.006998  0.007157  0.000952  0.000096
2.505495  0.006998  0.007285  0.000963  0.000096
2.549451  0.006998  0.007413  0.000994  0.000096
2.593407  0.006998  0.007540  0.001036  0.000097
2.637363  0.006998  0.007668  0.001081  0.000097
2.681319  0.006998  0.007796  0.001127  0.000097
2.725275  0.006998  0.007923  0.001173  0.000098
2.769231  0.006998  0.008051  0.001218  0.000098
2.813187  0.006998  0.008179  0.001262  0.000098
2.857143  0.006998  0.008306  0.001305  0.000098
2.901099  0.006998  0.008434  0.001347  0.000099
2.945055  0.006998  0.008562  0.001388  0.000099
2.989011  0.006998  0.008689  0.001429  0.000099
3.000000  0.006998  0.008963  0.002825  0.000102
END FTABLE 24
FTABLE     23
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.006998  0.000000  0.000000  0.000000
0.043956  0.006998  0.000308  0.000000  0.016614
0.087912  0.006998  0.000615  0.000000  0.019535
0.131868  0.006998  0.000923  0.000000  0.020996
0.175824  0.006998  0.001230  0.000000  0.022456
0.219780  0.006998  0.001538  0.000000  0.023917
0.263736  0.006998  0.001846  0.000000  0.025377
0.307692  0.006998  0.002153  0.000000  0.026838
0.351648  0.006998  0.002461  0.000000  0.028298
0.395604  0.006998  0.002769  0.000000  0.029759
0.439560  0.006998  0.003076  0.000000  0.031220
0.483516  0.006998  0.003384  0.000000  0.032680
0.527473  0.006998  0.003691  0.024122  0.034141
0.571429  0.006998  0.003999  0.099620  0.035601
0.615385  0.006998  0.004307  0.194303  0.037062
0.659341  0.006998  0.004614  0.284544  0.038522
0.703297  0.006998  0.004922  0.350332  0.039983
0.747253  0.006998  0.005230  0.387674  0.041444
0.791209  0.006998  0.005537  0.424915  0.042904
0.835165  0.006998  0.005845  0.455857  0.044365
0.879121  0.006998  0.006152  0.484829  0.045825
0.923077  0.006998  0.006460  0.512164  0.047286
0.967033  0.006998  0.006768  0.538113  0.048746
1.000000  0.006998  0.006998  0.562866  0.049842
END FTABLE 23
FTABLE     26
 70    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009275  0.000000  0.000000  0.000000
0.043956  0.009275  0.000164  0.000000  0.000000
0.087912  0.009275  0.000328  0.000000  0.000000
0.131868  0.009275  0.000492  0.000000  0.000000
0.175824  0.009275  0.000656  0.000000  0.000000
0.219780  0.009275  0.000819  0.000000  0.000000
0.263736  0.009275  0.000983  0.000000  0.000000
0.307692  0.009275  0.001147  0.000000  0.000000
0.351648  0.009275  0.001311  0.000000  0.000000
0.395604  0.009275  0.001475  0.000000  0.000000
0.439560  0.009275  0.001639  0.000000  0.000000
0.483516  0.009275  0.001803  0.000000  0.000000
0.527473  0.009275  0.001974  0.000169  0.000091
0.571429  0.009275  0.002145  0.000244  0.000100
0.615385  0.009275  0.002316  0.000335  0.000106
0.659341  0.009275  0.002488  0.000378  0.000109
0.703297  0.009275  0.002659  0.000446  0.000112
0.747253  0.009275  0.002830  0.000478  0.000113
0.791209  0.009275  0.003001  0.000536  0.000115
0.835165  0.009275  0.003173  0.000564  0.000116
0.879121  0.009275  0.003344  0.000616  0.000118
```

```
0.923077  0.009275  0.003515  0.000641  0.000118
0.967033  0.009275  0.003686  0.000688  0.000120
1.010989  0.009275  0.003857  0.000711  0.000120
1.054945  0.009275  0.004029  0.000755  0.000121
1.098901  0.009275  0.004200  0.000777  0.000121
1.142857  0.009275  0.004371  0.000818  0.000122
1.186813  0.009275  0.004542  0.000839  0.000122
1.230769  0.009275  0.004714  0.000878  0.000123
1.274725  0.009275  0.004885  0.000897  0.000123
1.318681  0.009275  0.005056  0.000934  0.000124
1.362637  0.009275  0.005227  0.000952  0.000124
1.406593  0.009275  0.005399  0.000988  0.000125
1.450549  0.009275  0.005570  0.001005  0.000125
1.494505  0.009275  0.005741  0.001039  0.000125
1.538462  0.009275  0.005912  0.001056  0.000125
1.582418  0.009275  0.006083  0.001089  0.000126
1.626374  0.009275  0.006255  0.001105  0.000126
1.670330  0.009275  0.006426  0.001137  0.000126
1.714286  0.009275  0.006597  0.001152  0.000126
1.758242  0.009275  0.006768  0.001183  0.000127
1.802198  0.009275  0.006940  0.001198  0.000127
1.846154  0.009275  0.007111  0.001228  0.000127
1.890110  0.009275  0.007282  0.001243  0.000127
1.934066  0.009275  0.007453  0.001271  0.000127
1.978022  0.009275  0.007624  0.001286  0.000128
2.021978  0.009275  0.007794  0.001314  0.000128
2.065934  0.009275  0.007963  0.001314  0.000128
2.109890  0.009275  0.008132  0.001314  0.000128
2.153846  0.009275  0.008301  0.001333  0.000128
2.197802  0.009275  0.008470  0.001342  0.000128
2.241758  0.009275  0.008640  0.001367  0.000128
2.285714  0.009275  0.008809  0.001379  0.000128
2.329670  0.009275  0.008978  0.001386  0.000128
2.373626  0.009275  0.009147  0.001389  0.000128
2.417582  0.009275  0.009316  0.001390  0.000128
2.461538  0.009275  0.009486  0.001391  0.000128
2.505495  0.009275  0.009655  0.001406  0.000129
2.549451  0.009275  0.009824  0.001452  0.000129
2.593407  0.009275  0.009993  0.001512  0.000129
2.637363  0.009275  0.010162  0.001577  0.000130
2.681319  0.009275  0.010332  0.001643  0.000130
2.725275  0.009275  0.010501  0.001709  0.000130
2.769231  0.009275  0.010670  0.001774  0.000131
2.813187  0.009275  0.010839  0.001838  0.000131
2.857143  0.009275  0.011008  0.001900  0.000131
2.901099  0.009275  0.011177  0.001960  0.000131
2.945055  0.009275  0.011347  0.002020  0.000132
2.989011  0.009275  0.011516  0.002079  0.000132
3.000000  0.009275  0.011906  0.004079  0.000136
END FTABLE 26
FTABLE     25
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009275  0.000000  0.000000  0.000000
0.043956  0.009275  0.000408  0.000000  0.022018
0.087912  0.009275  0.000815  0.000000  0.025889
0.131868  0.009275  0.001223  0.000000  0.027825
0.175824  0.009275  0.001631  0.000000  0.029760
0.219780  0.009275  0.002038  0.000000  0.031696
0.263736  0.009275  0.002446  0.000000  0.033632
0.307692  0.009275  0.002854  0.000000  0.035567
0.351648  0.009275  0.003261  0.000000  0.037503
0.395604  0.009275  0.003669  0.000000  0.039439
0.439560  0.009275  0.004077  0.000000  0.041374
0.483516  0.009275  0.004485  0.000000  0.043310
0.527473  0.009275  0.004892  0.024122  0.045246
0.571429  0.009275  0.005300  0.099620  0.047181
0.615385  0.009275  0.005708  0.194303  0.049117
0.659341  0.009275  0.006115  0.284544  0.051053
```

```
0.703297  0.009275  0.006523  0.350332  0.052988
0.747253  0.009275  0.006931  0.387674  0.054924
0.791209  0.009275  0.007338  0.424915  0.056859
0.835165  0.009275  0.007746  0.455857  0.058795
0.879121  0.009275  0.008154  0.484829  0.060731
0.923077  0.009275  0.008561  0.512164  0.062666
0.967033  0.009275  0.008969  0.538113  0.064602
1.000000  0.009275  0.009275  0.562866  0.066054
END FTABLE 25
FTABLE     28
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009137  0.000000  0.000000  0.000000
0.043956  0.009137  0.000161  0.000000  0.000000
0.087912  0.009137  0.000323  0.000000  0.000000
0.131868  0.009137  0.000484  0.000000  0.000000
0.175824  0.009137  0.000646  0.000000  0.000000
0.219780  0.009137  0.000807  0.000000  0.000000
0.263736  0.009137  0.000969  0.000000  0.000000
0.307692  0.009137  0.001130  0.000000  0.000000
0.351648  0.009137  0.001292  0.000000  0.000000
0.395604  0.009137  0.001453  0.000000  0.000000
0.439560  0.009137  0.001615  0.000000  0.000000
0.483516  0.009137  0.001776  0.000000  0.000000
0.527473  0.009137  0.001945  0.000169  0.000090
0.571429  0.009137  0.002113  0.000246  0.000099
0.615385  0.009137  0.002282  0.000337  0.000105
0.659341  0.009137  0.002451  0.000380  0.000108
0.703297  0.009137  0.002619  0.000448  0.000111
0.747253  0.009137  0.002788  0.000481  0.000112
0.791209  0.009137  0.002957  0.000539  0.000114
0.835165  0.009137  0.003125  0.000567  0.000115
0.879121  0.009137  0.003294  0.000618  0.000116
0.923077  0.009137  0.003463  0.000644  0.000117
0.967033  0.009137  0.003631  0.000691  0.000118
1.010989  0.009137  0.003800  0.000714  0.000119
1.054945  0.009137  0.003969  0.000758  0.000119
1.098901  0.009137  0.004138  0.000780  0.000120
1.142857  0.009137  0.004306  0.000821  0.000121
1.186813  0.009137  0.004475  0.000842  0.000121
1.230769  0.009137  0.004644  0.000881  0.000121
1.274725  0.009137  0.004812  0.000900  0.000122
1.318681  0.009137  0.004981  0.000937  0.000122
1.362637  0.009137  0.005150  0.000956  0.000122
1.406593  0.009137  0.005318  0.000991  0.000123
1.450549  0.009137  0.005487  0.001009  0.000123
1.494505  0.009137  0.005656  0.001043  0.000124
1.538462  0.009137  0.005824  0.001060  0.000124
1.582418  0.009137  0.005993  0.001092  0.000124
1.626374  0.009137  0.006162  0.001109  0.000124
1.670330  0.009137  0.006330  0.001140  0.000125
1.714286  0.009137  0.006499  0.001156  0.000125
1.758242  0.009137  0.006668  0.001186  0.000125
1.802198  0.009137  0.006836  0.001202  0.000125
1.846154  0.009137  0.007005  0.001231  0.000125
1.890110  0.009137  0.007174  0.001246  0.000126
1.934066  0.009137  0.007342  0.001275  0.000126
1.978022  0.009137  0.007511  0.001289  0.000126
2.021978  0.009137  0.007678  0.001317  0.000126
2.065934  0.009137  0.007844  0.001317  0.000126
2.109890  0.009137  0.008011  0.001317  0.000126
2.153846  0.009137  0.008178  0.001336  0.000126
2.197802  0.009137  0.008344  0.001345  0.000126
2.241758  0.009137  0.008511  0.001370  0.000127
2.285714  0.009137  0.008678  0.001383  0.000127
2.329670  0.009137  0.008844  0.001389  0.000127
2.373626  0.009137  0.009011  0.001392  0.000127
2.417582  0.009137  0.009178  0.001394  0.000127
2.461538  0.009137  0.009345  0.001394  0.000127
```

```
2.505495  0.009137  0.009511  0.001410  0.000127
2.549451  0.009137  0.009678  0.001456  0.000127
2.593407  0.009137  0.009845  0.001515  0.000127
2.637363  0.009137  0.010011  0.001580  0.000128
2.681319  0.009137  0.010178  0.001647  0.000128
2.725275  0.009137  0.010345  0.001713  0.000129
2.769231  0.009137  0.010511  0.001778  0.000129
2.813187  0.009137  0.010678  0.001841  0.000129
2.857143  0.009137  0.010845  0.001903  0.000129
2.901099  0.009137  0.011011  0.001964  0.000130
2.945055  0.009137  0.011178  0.002024  0.000130
2.989011  0.009137  0.011345  0.002083  0.000130
3.000000  0.009137  0.011735  0.004081  0.000134
END FTABLE 28
FTABLE     27
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009137  0.000000  0.000000  0.000000
0.043956  0.009137  0.000402  0.000000  0.021691
0.087912  0.009137  0.000803  0.000000  0.025504
0.131868  0.009137  0.001205  0.000000  0.027411
0.175824  0.009137  0.001606  0.000000  0.029318
0.219780  0.009137  0.002008  0.000000  0.031225
0.263736  0.009137  0.002410  0.000000  0.033132
0.307692  0.009137  0.002811  0.000000  0.035039
0.351648  0.009137  0.003213  0.000000  0.036945
0.395604  0.009137  0.003615  0.000000  0.038852
0.439560  0.009137  0.004016  0.000000  0.040759
0.483516  0.009137  0.004418  0.000000  0.042666
0.527473  0.009137  0.004819  0.024122  0.044573
0.571429  0.009137  0.005221  0.099620  0.046480
0.615385  0.009137  0.005623  0.194303  0.048387
0.659341  0.009137  0.006024  0.284544  0.050293
0.703297  0.009137  0.006426  0.350332  0.052200
0.747253  0.009137  0.006828  0.387674  0.054107
0.791209  0.009137  0.007229  0.424915  0.056014
0.835165  0.009137  0.007631  0.455857  0.057921
0.879121  0.009137  0.008032  0.484829  0.059828
0.923077  0.009137  0.008434  0.512164  0.061735
0.967033  0.009137  0.008836  0.538113  0.063641
1.000000  0.009137  0.009137  0.562866  0.065072
END FTABLE 27
FTABLE     30
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.010259  0.000000  0.000000  0.000000
0.043956  0.010259  0.000181  0.000000  0.000000
0.087912  0.010259  0.000363  0.000000  0.000000
0.131868  0.010259  0.000544  0.000000  0.000000
0.175824  0.010259  0.000725  0.000000  0.000000
0.219780  0.010259  0.000906  0.000000  0.000000
0.263736  0.010259  0.001088  0.000000  0.000000
0.307692  0.010259  0.001269  0.000000  0.000000
0.351648  0.010259  0.001450  0.000000  0.000000
0.395604  0.010259  0.001632  0.000000  0.000000
0.439560  0.010259  0.001813  0.000000  0.000000
0.483516  0.010259  0.001994  0.000000  0.000000
0.527473  0.010259  0.002184  0.000163  0.000097
0.571429  0.010259  0.002373  0.000234  0.000107
0.615385  0.010259  0.002562  0.000322  0.000114
0.659341  0.010259  0.002752  0.000363  0.000117
0.703297  0.010259  0.002941  0.000429  0.000121
0.747253  0.010259  0.003131  0.000461  0.000123
0.791209  0.010259  0.003320  0.000518  0.000125
0.835165  0.010259  0.003509  0.000545  0.000126
0.879121  0.010259  0.003699  0.000596  0.000128
0.923077  0.010259  0.003888  0.000621  0.000129
0.967033  0.010259  0.004078  0.000668  0.000130
```

```
1.010989  0.010259  0.004267  0.000691  0.000131
1.054945  0.010259  0.004456  0.000734  0.000132
1.098901  0.010259  0.004646  0.000756  0.000132
1.142857  0.010259  0.004835  0.000797  0.000133
1.186813  0.010259  0.005025  0.000817  0.000133
1.230769  0.010259  0.005214  0.000856  0.000134
1.274725  0.010259  0.005403  0.000875  0.000134
1.318681  0.010259  0.005593  0.000912  0.000135
1.362637  0.010259  0.005782  0.000930  0.000135
1.406593  0.010259  0.005972  0.000965  0.000136
1.450549  0.010259  0.006161  0.000983  0.000136
1.494505  0.010259  0.006350  0.001016  0.000137
1.538462  0.010259  0.006540  0.001033  0.000137
1.582418  0.010259  0.006729  0.001066  0.000137
1.626374  0.010259  0.006919  0.001082  0.000138
1.670330  0.010259  0.007108  0.001113  0.000138
1.714286  0.010259  0.007297  0.001129  0.000138
1.758242  0.010259  0.007487  0.001159  0.000139
1.802198  0.010259  0.007676  0.001174  0.000139
1.846154  0.010259  0.007866  0.001204  0.000139
1.890110  0.010259  0.008055  0.001219  0.000139
1.934066  0.010259  0.008245  0.001247  0.000140
1.978022  0.010259  0.008434  0.001261  0.000140
2.021978  0.010259  0.008621  0.001289  0.000140
2.065934  0.010259  0.008808  0.001289  0.000140
2.109890  0.010259  0.008995  0.001289  0.000140
2.153846  0.010259  0.009183  0.001308  0.000140
2.197802  0.010259  0.009370  0.001318  0.000140
2.241758  0.010259  0.009557  0.001343  0.000140
2.285714  0.010259  0.009744  0.001355  0.000141
2.329670  0.010259  0.009931  0.001361  0.000141
2.373626  0.010259  0.010118  0.001364  0.000141
2.417582  0.010259  0.010305  0.001366  0.000141
2.461538  0.010259  0.010493  0.001366  0.000141
2.505495  0.010259  0.010680  0.001382  0.000141
2.549451  0.010259  0.010867  0.001427  0.000141
2.593407  0.010259  0.011054  0.001487  0.000142
2.637363  0.010259  0.011241  0.001552  0.000142
2.681319  0.010259  0.011428  0.001618  0.000143
2.725275  0.010259  0.011615  0.001684  0.000143
2.769231  0.010259  0.011803  0.001749  0.000143
2.813187  0.010259  0.011990  0.001812  0.000144
2.857143  0.010259  0.012177  0.001874  0.000144
2.901099  0.010259  0.012364  0.001935  0.000144
2.945055  0.010259  0.012551  0.001994  0.000145
2.989011  0.010259  0.012738  0.002053  0.000145
3.000000  0.010259  0.013133  0.004065  0.000150
END FTABLE 30
FTABLE     29
 24    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)     (Minutes)***
0.000000  0.010259  0.000000  0.000000  0.000000
0.043956  0.010259  0.000451  0.000000  0.024355
0.087912  0.010259  0.000902  0.000000  0.028638
0.131868  0.010259  0.001353  0.000000  0.030779
0.175824  0.010259  0.001804  0.000000  0.032920
0.219780  0.010259  0.002255  0.000000  0.035061
0.263736  0.010259  0.002706  0.000000  0.037202
0.307692  0.010259  0.003157  0.000000  0.039343
0.351648  0.010259  0.003608  0.000000  0.041484
0.395604  0.010259  0.004059  0.000000  0.043625
0.439560  0.010259  0.004510  0.000000  0.045767
0.483516  0.010259  0.004961  0.000000  0.047908
0.527473  0.010259  0.005412  0.024122  0.050049
0.571429  0.010259  0.005863  0.099620  0.052190
0.615385  0.010259  0.006313  0.194303  0.054331
0.659341  0.010259  0.006764  0.284544  0.056472
0.703297  0.010259  0.007215  0.350332  0.058613
0.747253  0.010259  0.007666  0.387674  0.060755
```

```
0.791209  0.010259  0.008117  0.424915  0.062896
0.835165  0.010259  0.008568  0.455857  0.065037
0.879121  0.010259  0.009019  0.484829  0.067178
0.923077  0.010259  0.009470  0.512164  0.069319
0.967033  0.010259  0.009921  0.538113  0.071460
1.000000  0.010259  0.010259  0.562866  0.073066
END FTABLE 29
FTABLE     32
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)      (cfs)   (ft/sec)     (Minutes)***
0.000000  0.009942  0.000000  0.000000  0.000000
0.043956  0.009942  0.000176  0.000000  0.000000
0.087912  0.009942  0.000351  0.000000  0.000000
0.131868  0.009942  0.000527  0.000000  0.000000
0.175824  0.009942  0.000703  0.000000  0.000000
0.219780  0.009942  0.000878  0.000000  0.000000
0.263736  0.009942  0.001054  0.000000  0.000000
0.307692  0.009942  0.001230  0.000000  0.000000
0.351648  0.009942  0.001405  0.000000  0.000000
0.395604  0.009942  0.001581  0.000000  0.000000
0.439560  0.009942  0.001757  0.000000  0.000000
0.483516  0.009942  0.001932  0.000000  0.000000
0.527473  0.009942  0.002116  0.000164  0.000095
0.571429  0.009942  0.002299  0.000237  0.000104
0.615385  0.009942  0.002483  0.000326  0.000112
0.659341  0.009942  0.002667  0.000368  0.000115
0.703297  0.009942  0.002850  0.000434  0.000118
0.747253  0.009942  0.003034  0.000466  0.000120
0.791209  0.009942  0.003217  0.000524  0.000122
0.835165  0.009942  0.003401  0.000551  0.000123
0.879121  0.009942  0.003584  0.000602  0.000125
0.923077  0.009942  0.003768  0.000627  0.000125
0.967033  0.009942  0.003951  0.000674  0.000127
1.010989  0.009942  0.004135  0.000697  0.000127
1.054945  0.009942  0.004318  0.000741  0.000128
1.098901  0.009942  0.004502  0.000762  0.000129
1.142857  0.009942  0.004685  0.000804  0.000129
1.186813  0.009942  0.004869  0.000824  0.000130
1.230769  0.009942  0.005053  0.000863  0.000131
1.274725  0.009942  0.005236  0.000882  0.000131
1.318681  0.009942  0.005420  0.000919  0.000132
1.362637  0.009942  0.005603  0.000937  0.000132
1.406593  0.009942  0.005787  0.000972  0.000132
1.450549  0.009942  0.005970  0.000990  0.000133
1.494505  0.009942  0.006154  0.001024  0.000133
1.538462  0.009942  0.006337  0.001041  0.000133
1.582418  0.009942  0.006521  0.001073  0.000134
1.626374  0.009942  0.006704  0.001089  0.000134
1.670330  0.009942  0.006888  0.001121  0.000134
1.714286  0.009942  0.007071  0.001136  0.000134
1.758242  0.009942  0.007255  0.001167  0.000135
1.802198  0.009942  0.007439  0.001182  0.000135
1.846154  0.009942  0.007622  0.001212  0.000135
1.890110  0.009942  0.007806  0.001226  0.000135
1.934066  0.009942  0.007989  0.001255  0.000136
1.978022  0.009942  0.008173  0.001269  0.000136
2.021978  0.009942  0.008354  0.001297  0.000136
2.065934  0.009942  0.008535  0.001297  0.000136
2.109890  0.009942  0.008717  0.001297  0.000136
2.153846  0.009942  0.008898  0.001316  0.000136
2.197802  0.009942  0.009079  0.001326  0.000136
2.241758  0.009942  0.009261  0.001350  0.000137
2.285714  0.009942  0.009442  0.001363  0.000137
2.329670  0.009942  0.009623  0.001369  0.000137
2.373626  0.009942  0.009805  0.001372  0.000137
2.417582  0.009942  0.009986  0.001373  0.000137
2.461538  0.009942  0.010168  0.001374  0.000137
2.505495  0.009942  0.010349  0.001389  0.000137
2.549451  0.009942  0.010530  0.001435  0.000137
```

```
2.593407  0.009942  0.010712  0.001495  0.000138
2.637363  0.009942  0.010893  0.001560  0.000138
2.681319  0.009942  0.011074  0.001626  0.000139
2.725275  0.009942  0.011256  0.001692  0.000139
2.769231  0.009942  0.011437  0.001757  0.000139
2.813187  0.009942  0.011618  0.001821  0.000140
2.857143  0.009942  0.011800  0.001882  0.000140
2.901099  0.009942  0.011981  0.001943  0.000140
2.945055  0.009942  0.012162  0.002002  0.000141
2.989011  0.009942  0.012344  0.002062  0.000141
3.000000  0.009942  0.012737  0.004070  0.000145
END FTABLE 32
FTABLE     31
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009942  0.000000  0.000000  0.000000
0.043956  0.009942  0.000437  0.000000  0.023601
0.087912  0.009942  0.000874  0.000000  0.027750
0.131868  0.009942  0.001311  0.000000  0.029825
0.175824  0.009942  0.001748  0.000000  0.031900
0.219780  0.009942  0.002185  0.000000  0.033975
0.263736  0.009942  0.002622  0.000000  0.036050
0.307692  0.009942  0.003059  0.000000  0.038125
0.351648  0.009942  0.003496  0.000000  0.040199
0.395604  0.009942  0.003933  0.000000  0.042274
0.439560  0.009942  0.004370  0.000000  0.044349
0.483516  0.009942  0.004807  0.000000  0.046424
0.527473  0.009942  0.005244  0.024122  0.048499
0.571429  0.009942  0.005681  0.099620  0.050573
0.615385  0.009942  0.006118  0.194303  0.052648
0.659341  0.009942  0.006555  0.284544  0.054723
0.703297  0.009942  0.006992  0.350332  0.056798
0.747253  0.009942  0.007429  0.387674  0.058873
0.791209  0.009942  0.007866  0.424915  0.060947
0.835165  0.009942  0.008303  0.455857  0.063022
0.879121  0.009942  0.008740  0.484829  0.065097
0.923077  0.009942  0.009177  0.512164  0.067172
0.967033  0.009942  0.009614  0.538113  0.069247
1.000000  0.009942  0.009942  0.562866  0.070803
END FTABLE 31
FTABLE     34
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.008148  0.000000  0.000000  0.000000
0.043956  0.008148  0.000144  0.000000  0.000000
0.087912  0.008148  0.000288  0.000000  0.000000
0.131868  0.008148  0.000432  0.000000  0.000000
0.175824  0.008148  0.000576  0.000000  0.000000
0.219780  0.008148  0.000720  0.000000  0.000000
0.263736  0.008148  0.000864  0.000000  0.000000
0.307692  0.008148  0.001008  0.000000  0.000000
0.351648  0.008148  0.001152  0.000000  0.000000
0.395604  0.008148  0.001296  0.000000  0.000000
0.439560  0.008148  0.001440  0.000000  0.000000
0.483516  0.008148  0.001584  0.000000  0.000000
0.527473  0.008148  0.001734  0.000176  0.000084
0.571429  0.008148  0.001885  0.000257  0.000091
0.615385  0.008148  0.002035  0.000351  0.000097
0.659341  0.008148  0.002186  0.000396  0.000099
0.703297  0.008148  0.002336  0.000466  0.000101
0.747253  0.008148  0.002486  0.000499  0.000102
0.791209  0.008148  0.002637  0.000558  0.000104
0.835165  0.008148  0.002787  0.000587  0.000105
0.879121  0.008148  0.002938  0.000639  0.000106
0.923077  0.008148  0.003088  0.000665  0.000106
0.967033  0.008148  0.003239  0.000712  0.000107
1.010989  0.008148  0.003389  0.000736  0.000108
1.054945  0.008148  0.003539  0.000780  0.000108
```

```
1.098901  0.008148  0.003690  0.000802  0.000109
1.142857  0.008148  0.003840  0.000844  0.000109
1.186813  0.008148  0.003991  0.000864  0.000109
1.230769  0.008148  0.004141  0.000904  0.000110
1.274725  0.008148  0.004292  0.000923  0.000110
1.318681  0.008148  0.004442  0.000960  0.000111
1.362637  0.008148  0.004592  0.000979  0.000111
1.406593  0.008148  0.004743  0.001015  0.000111
1.450549  0.008148  0.004893  0.001032  0.000111
1.494505  0.008148  0.005044  0.001066  0.000112
1.538462  0.008148  0.005194  0.001083  0.000112
1.582418  0.008148  0.005345  0.001116  0.000112
1.626374  0.008148  0.005495  0.001133  0.000112
1.670330  0.008148  0.005646  0.001164  0.000112
1.714286  0.008148  0.005796  0.001180  0.000113
1.758242  0.008148  0.005946  0.001211  0.000113
1.802198  0.008148  0.006097  0.001226  0.000113
1.846154  0.008148  0.006247  0.001256  0.000113
1.890110  0.008148  0.006398  0.001271  0.000113
1.934066  0.008148  0.006548  0.001299  0.000113
1.978022  0.008148  0.006699  0.001314  0.000113
2.021978  0.008148  0.006847  0.001342  0.000114
2.065934  0.008148  0.006996  0.001342  0.000114
2.109890  0.008148  0.007144  0.001342  0.000114
2.153846  0.008148  0.007293  0.001361  0.000114
2.197802  0.008148  0.007442  0.001371  0.000114
2.241758  0.008148  0.007590  0.001396  0.000114
2.285714  0.008148  0.007739  0.001408  0.000114
2.329670  0.008148  0.007888  0.001414  0.000114
2.373626  0.008148  0.008036  0.001417  0.000114
2.417582  0.008148  0.008185  0.001419  0.000114
2.461538  0.008148  0.008334  0.001420  0.000114
2.505495  0.008148  0.008482  0.001435  0.000114
2.549451  0.008148  0.008631  0.001481  0.000114
2.593407  0.008148  0.008780  0.001541  0.000115
2.637363  0.008148  0.008928  0.001606  0.000115
2.681319  0.008148  0.009077  0.001673  0.000115
2.725275  0.008148  0.009225  0.001739  0.000116
2.769231  0.008148  0.009374  0.001804  0.000116
2.813187  0.008148  0.009523  0.001868  0.000116
2.857143  0.008148  0.009671  0.001930  0.000116
2.901099  0.008148  0.009820  0.001990  0.000116
2.945055  0.008148  0.009969  0.002050  0.000117
2.989011  0.008148  0.010117  0.002110  0.000117
3.000000  0.008148  0.010503  0.004095  0.000120
END FTABLE 34
FTABLE     33
 24    5
   Depth      Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)    (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.008148  0.000000  0.000000  0.000000
0.043956  0.008148  0.000358  0.000000  0.019344
0.087912  0.008148  0.000716  0.000000  0.022745
0.131868  0.008148  0.001075  0.000000  0.024446
0.175824  0.008148  0.001433  0.000000  0.026146
0.219780  0.008148  0.001791  0.000000  0.027847
0.263736  0.008148  0.002149  0.000000  0.029547
0.307692  0.008148  0.002507  0.000000  0.031248
0.351648  0.008148  0.002865  0.000000  0.032949
0.395604  0.008148  0.003224  0.000000  0.034649
0.439560  0.008148  0.003582  0.000000  0.036350
0.483516  0.008148  0.003940  0.000000  0.038050
0.527473  0.008148  0.004298  0.024122  0.039751
0.571429  0.008148  0.004656  0.099620  0.041451
0.615385  0.008148  0.005014  0.194303  0.043152
0.659341  0.008148  0.005373  0.284544  0.044853
0.703297  0.008148  0.005731  0.350332  0.046553
0.747253  0.008148  0.006089  0.387674  0.048254
0.791209  0.008148  0.006447  0.424915  0.049954
0.835165  0.008148  0.006805  0.455857  0.051655
```

```
0.879121  0.008148  0.007163  0.484829  0.053355
0.923077  0.008148  0.007522  0.512164  0.055056
0.967033  0.008148  0.007880  0.538113  0.056757
1.000000  0.008148  0.008148  0.562866  0.058032
END FTABLE 33
FTABLE     36
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.008314  0.000000  0.000000  0.000000
0.043956  0.008314  0.000147  0.000000  0.000000
0.087912  0.008314  0.000294  0.000000  0.000000
0.131868  0.008314  0.000441  0.000000  0.000000
0.175824  0.008314  0.000588  0.000000  0.000000
0.219780  0.008314  0.000735  0.000000  0.000000
0.263736  0.008314  0.000881  0.000000  0.000000
0.307692  0.008314  0.001028  0.000000  0.000000
0.351648  0.008314  0.001175  0.000000  0.000000
0.395604  0.008314  0.001322  0.000000  0.000000
0.439560  0.008314  0.001469  0.000000  0.000000
0.483516  0.008314  0.001616  0.000000  0.000000
0.527473  0.008314  0.001769  0.000175  0.000085
0.571429  0.008314  0.001923  0.000255  0.000092
0.615385  0.008314  0.002076  0.000349  0.000098
0.659341  0.008314  0.002230  0.000393  0.000100
0.703297  0.008314  0.002383  0.000463  0.000103
0.747253  0.008314  0.002537  0.000496  0.000104
0.791209  0.008314  0.002690  0.000555  0.000106
0.835165  0.008314  0.002844  0.000583  0.000106
0.879121  0.008314  0.002997  0.000636  0.000108
0.923077  0.008314  0.003151  0.000661  0.000108
0.967033  0.008314  0.003304  0.000709  0.000109
1.010989  0.008314  0.003458  0.000732  0.000109
1.054945  0.008314  0.003611  0.000777  0.000110
1.098901  0.008314  0.003765  0.000798  0.000110
1.142857  0.008314  0.003918  0.000840  0.000111
1.186813  0.008314  0.004072  0.000861  0.000111
1.230769  0.008314  0.004225  0.000900  0.000112
1.274725  0.008314  0.004379  0.000919  0.000112
1.318681  0.008314  0.004532  0.000957  0.000113
1.362637  0.008314  0.004686  0.000975  0.000113
1.406593  0.008314  0.004839  0.001011  0.000113
1.450549  0.008314  0.004993  0.001028  0.000113
1.494505  0.008314  0.005146  0.001062  0.000114
1.538462  0.008314  0.005300  0.001079  0.000114
1.582418  0.008314  0.005453  0.001112  0.000114
1.626374  0.008314  0.005606  0.001129  0.000114
1.670330  0.008314  0.005760  0.001160  0.000114
1.714286  0.008314  0.005913  0.001176  0.000115
1.758242  0.008314  0.006067  0.001207  0.000115
1.802198  0.008314  0.006220  0.001222  0.000115
1.846154  0.008314  0.006374  0.001252  0.000115
1.890110  0.008314  0.006527  0.001266  0.000115
1.934066  0.008314  0.006681  0.001295  0.000115
1.978022  0.008314  0.006834  0.001310  0.000116
2.021978  0.008314  0.006986  0.001338  0.000116
2.065934  0.008314  0.007138  0.001338  0.000116
2.109890  0.008314  0.007289  0.001338  0.000116
2.153846  0.008314  0.007441  0.001357  0.000116
2.197802  0.008314  0.007593  0.001366  0.000116
2.241758  0.008314  0.007744  0.001391  0.000116
2.285714  0.008314  0.007896  0.001404  0.000116
2.329670  0.008314  0.008048  0.001410  0.000116
2.373626  0.008314  0.008199  0.001413  0.000116
2.417582  0.008314  0.008351  0.001415  0.000116
2.461538  0.008314  0.008503  0.001415  0.000116
2.505495  0.008314  0.008654  0.001431  0.000116
2.549451  0.008314  0.008806  0.001477  0.000117
2.593407  0.008314  0.008958  0.001536  0.000117
2.637363  0.008314  0.009109  0.001602  0.000117
```

```
2.681319  0.008314  0.009261  0.001668  0.000117
2.725275  0.008314  0.009412  0.001735  0.000118
2.769231  0.008314  0.009564  0.001800  0.000118
2.813187  0.008314  0.009716  0.001863  0.000118
2.857143  0.008314  0.009867  0.001925  0.000118
2.901099  0.008314  0.010019  0.001986  0.000119
2.945055  0.008314  0.010171  0.002045  0.000119
2.989011  0.008314  0.010322  0.002105  0.000119
3.000000  0.008314  0.010709  0.004093  0.000122
END FTABLE 36
FTABLE     35
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.008314  0.000000  0.000000  0.000000
0.043956  0.008314  0.000365  0.000000  0.019736
0.087912  0.008314  0.000731  0.000000  0.023206
0.131868  0.008314  0.001096  0.000000  0.024941
0.175824  0.008314  0.001462  0.000000  0.026676
0.219780  0.008314  0.001827  0.000000  0.028411
0.263736  0.008314  0.002193  0.000000  0.030146
0.307692  0.008314  0.002558  0.000000  0.031881
0.351648  0.008314  0.002923  0.000000  0.033616
0.395604  0.008314  0.003289  0.000000  0.035352
0.439560  0.008314  0.003654  0.000000  0.037087
0.483516  0.008314  0.004020  0.000000  0.038822
0.527473  0.008314  0.004385  0.024122  0.040557
0.571429  0.008314  0.004751  0.099620  0.042292
0.615385  0.008314  0.005116  0.194303  0.044027
0.659341  0.008314  0.005482  0.284544  0.045762
0.703297  0.008314  0.005847  0.350332  0.047497
0.747253  0.008314  0.006212  0.387674  0.049232
0.791209  0.008314  0.006578  0.424915  0.050967
0.835165  0.008314  0.006943  0.455857  0.052702
0.879121  0.008314  0.007309  0.484829  0.054437
0.923077  0.008314  0.007674  0.512164  0.056172
0.967033  0.008314  0.008040  0.538113  0.057907
1.000000  0.008314  0.008314  0.562866  0.059208
END FTABLE 35
FTABLE     38
 70    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)     (cfs)   (ft/sec)    (Minutes)***
0.000000  0.009046  0.000000  0.000000  0.000000
0.043956  0.009046  0.000160  0.000000  0.000000
0.087912  0.009046  0.000320  0.000000  0.000000
0.131868  0.009046  0.000480  0.000000  0.000000
0.175824  0.009046  0.000639  0.000000  0.000000
0.219780  0.009046  0.000799  0.000000  0.000000
0.263736  0.009046  0.000959  0.000000  0.000000
0.307692  0.009046  0.001119  0.000000  0.000000
0.351648  0.009046  0.001279  0.000000  0.000000
0.395604  0.009046  0.001439  0.000000  0.000000
0.439560  0.009046  0.001598  0.000000  0.000000
0.483516  0.009046  0.001758  0.000000  0.000000
0.527473  0.009046  0.001925  0.000170  0.000090
0.571429  0.009046  0.002092  0.000247  0.000098
0.615385  0.009046  0.002259  0.000338  0.000105
0.659341  0.009046  0.002426  0.000381  0.000107
0.703297  0.009046  0.002593  0.000450  0.000110
0.747253  0.009046  0.002760  0.000482  0.000111
0.791209  0.009046  0.002927  0.000540  0.000113
0.835165  0.009046  0.003094  0.000569  0.000114
0.879121  0.009046  0.003261  0.000620  0.000115
0.923077  0.009046  0.003428  0.000646  0.000116
0.967033  0.009046  0.003595  0.000693  0.000117
1.010989  0.009046  0.003762  0.000716  0.000118
1.054945  0.009046  0.003929  0.000760  0.000118
1.098901  0.009046  0.004096  0.000782  0.000119
1.142857  0.009046  0.004263  0.000823  0.000119
```

```
1.186813   0.009046   0.004430   0.000844   0.000120
1.230769   0.009046   0.004597   0.000883   0.000120
1.274725   0.009046   0.004764   0.000902   0.000121
1.318681   0.009046   0.004931   0.000939   0.000121
1.362637   0.009046   0.005098   0.000958   0.000121
1.406593   0.009046   0.005265   0.000993   0.000122
1.450549   0.009046   0.005432   0.001011   0.000122
1.494505   0.009046   0.005599   0.001045   0.000122
1.538462   0.009046   0.005766   0.001062   0.000123
1.582418   0.009046   0.005933   0.001094   0.000123
1.626374   0.009046   0.006100   0.001111   0.000123
1.670330   0.009046   0.006267   0.001142   0.000123
1.714286   0.009046   0.006434   0.001158   0.000124
1.758242   0.009046   0.006601   0.001189   0.000124
1.802198   0.009046   0.006768   0.001204   0.000124
1.846154   0.009046   0.006935   0.001233   0.000124
1.890110   0.009046   0.007102   0.001248   0.000124
1.934066   0.009046   0.007269   0.001277   0.000125
1.978022   0.009046   0.007436   0.001291   0.000125
2.021978   0.009046   0.007601   0.001319   0.000125
2.065934   0.009046   0.007766   0.001319   0.000125
2.109890   0.009046   0.007931   0.001319   0.000125
2.153846   0.009046   0.008096   0.001338   0.000125
2.197802   0.009046   0.008261   0.001348   0.000125
2.241758   0.009046   0.008426   0.001373   0.000125
2.285714   0.009046   0.008591   0.001385   0.000125
2.329670   0.009046   0.008756   0.001391   0.000125
2.373626   0.009046   0.008921   0.001394   0.000126
2.417582   0.009046   0.009086   0.001396   0.000126
2.461538   0.009046   0.009251   0.001397   0.000126
2.505495   0.009046   0.009416   0.001412   0.000126
2.549451   0.009046   0.009581   0.001458   0.000126
2.593407   0.009046   0.009746   0.001518   0.000126
2.637363   0.009046   0.009911   0.001583   0.000127
2.681319   0.009046   0.010076   0.001649   0.000127
2.725275   0.009046   0.010241   0.001715   0.000127
2.769231   0.009046   0.010406   0.001780   0.000128
2.813187   0.009046   0.010571   0.001844   0.000128
2.857143   0.009046   0.010736   0.001906   0.000128
2.901099   0.009046   0.010901   0.001966   0.000128
2.945055   0.009046   0.011066   0.002026   0.000129
2.989011   0.009046   0.011231   0.002085   0.000129
3.000000   0.009046   0.011621   0.004083   0.000133
END FTABLE 38
FTABLE     37
 24    5
   Depth       Area     Volume   Outflow1   Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)    (cfs)      (cfs)    (ft/sec)    (Minutes)***
0.000000   0.009046   0.000000   0.000000   0.000000
0.043956   0.009046   0.000398   0.000000   0.021474
0.087912   0.009046   0.000795   0.000000   0.025249
0.131868   0.009046   0.001193   0.000000   0.027137
0.175824   0.009046   0.001590   0.000000   0.029025
0.219780   0.009046   0.001988   0.000000   0.030913
0.263736   0.009046   0.002386   0.000000   0.032800
0.307692   0.009046   0.002783   0.000000   0.034688
0.351648   0.009046   0.003181   0.000000   0.036576
0.395604   0.009046   0.003578   0.000000   0.038464
0.439560   0.009046   0.003976   0.000000   0.040352
0.483516   0.009046   0.004374   0.000000   0.042239
0.527473   0.009046   0.004771   0.048301   0.044127
0.571429   0.009046   0.005169   0.202028   0.046015
0.615385   0.009046   0.005566   0.412175   0.047903
0.659341   0.009046   0.005964   0.659695   0.049790
0.703297   0.009046   0.006362   0.928167   0.051678
0.747253   0.009046   0.006759   1.200769   0.053566
0.791209   0.009046   0.007157   1.460630   0.055454
0.835165   0.009046   0.007554   1.692395   0.057342
0.879121   0.009046   0.007952   1.884482   0.059229
0.923077   0.009046   0.008350   2.031838   0.061117
```

```
0.967033  0.009046  0.008747  2.139092  0.063005
1.000000  0.009046  0.009046  2.251466  0.064421
END FTABLE 37
FTABLE     40
 70    5
   Depth       Area     Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)    (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.004525  0.000000  0.000000  0.000000
0.043956  0.004525  0.000080  0.000000  0.000000
0.087912  0.004525  0.000160  0.000000  0.000000
0.131868  0.004525  0.000240  0.000000  0.000000
0.175824  0.004525  0.000320  0.000000  0.000000
0.219780  0.004525  0.000400  0.000000  0.000000
0.263736  0.004525  0.000480  0.000000  0.000000
0.307692  0.004525  0.000560  0.000000  0.000000
0.351648  0.004525  0.000640  0.000000  0.000000
0.395604  0.004525  0.000720  0.000000  0.000000
0.439560  0.004525  0.000800  0.000000  0.000000
0.483516  0.004525  0.000880  0.000000  0.000000
0.527473  0.004525  0.000963  0.000293  0.000039
0.571429  0.004525  0.001047  0.000406  0.000054
0.615385  0.004525  0.001130  0.000406  0.000060
0.659341  0.004525  0.001214  0.000406  0.000060
0.703297  0.004525  0.001297  0.000462  0.000061
0.747253  0.004525  0.001381  0.000489  0.000061
0.791209  0.004525  0.001464  0.000552  0.000062
0.835165  0.004525  0.001548  0.000583  0.000062
0.879121  0.004525  0.001631  0.000641  0.000062
0.923077  0.004525  0.001715  0.000670  0.000063
0.967033  0.004525  0.001799  0.000724  0.000063
1.010989  0.004525  0.001882  0.000750  0.000063
1.054945  0.004525  0.001966  0.000799  0.000063
1.098901  0.004525  0.002049  0.000823  0.000064
1.142857  0.004525  0.002133  0.000868  0.000064
1.186813  0.004525  0.002216  0.000891  0.000064
1.230769  0.004525  0.002300  0.000933  0.000064
1.274725  0.004525  0.002383  0.000954  0.000064
1.318681  0.004525  0.002467  0.000994  0.000064
1.362637  0.004525  0.002550  0.001014  0.000064
1.406593  0.004525  0.002634  0.001052  0.000064
1.450549  0.004525  0.002718  0.001071  0.000065
1.494505  0.004525  0.002801  0.001107  0.000065
1.538462  0.004525  0.002885  0.001125  0.000065
1.582418  0.004525  0.002968  0.001160  0.000065
1.626374  0.004525  0.003052  0.001177  0.000065
1.670330  0.004525  0.003135  0.001210  0.000065
1.714286  0.004525  0.003219  0.001227  0.000065
1.758242  0.004525  0.003302  0.001259  0.000065
1.802198  0.004525  0.003386  0.001275  0.000065
1.846154  0.004525  0.003469  0.001306  0.000065
1.890110  0.004525  0.003553  0.001321  0.000065
1.934066  0.004525  0.003637  0.001351  0.000065
1.978022  0.004525  0.003720  0.001366  0.000065
2.021978  0.004525  0.003803  0.001379  0.000065
2.065934  0.004525  0.003885  0.001385  0.000065
2.109890  0.004525  0.003968  0.001410  0.000065
2.153846  0.004525  0.004050  0.001423  0.000065
2.197802  0.004525  0.004133  0.001450  0.000065
2.241758  0.004525  0.004215  0.001463  0.000066
2.285714  0.004525  0.004298  0.001490  0.000066
2.329670  0.004525  0.004380  0.001504  0.000066
2.373626  0.004525  0.004463  0.001510  0.000066
2.417582  0.004525  0.004546  0.001514  0.000066
2.461538  0.004525  0.004628  0.001516  0.000066
2.505495  0.004525  0.004711  0.001531  0.000066
2.549451  0.004525  0.004793  0.001578  0.000066
2.593407  0.004525  0.004876  0.001638  0.000066
2.637363  0.004525  0.004958  0.001704  0.000066
2.681319  0.004525  0.005041  0.001771  0.000066
2.725275  0.004525  0.005123  0.001837  0.000066
```

```
2.769231  0.004525  0.005206  0.001903  0.000066
2.813187  0.004525  0.005289  0.001967  0.000066
2.857143  0.004525  0.005371  0.002029  0.000066
2.901099  0.004525  0.005454  0.002090  0.000066
2.945055  0.004525  0.005536  0.002150  0.000066
2.989011  0.004525  0.005619  0.002210  0.000066
3.000000  0.004525  0.005988  0.004149  0.000067
END FTABLE 40
FTABLE     39
 24    5
   Depth      Area    Volume  Outflow1  Outflow2  Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)      (cfs)   (ft/sec)    (Minutes)***
0.000000  0.004525  0.000000  0.000000  0.000000
0.043956  0.004525  0.000199  0.000000  0.010743
0.087912  0.004525  0.000398  0.000000  0.012632
0.131868  0.004525  0.000597  0.000000  0.013576
0.175824  0.004525  0.000796  0.000000  0.014521
0.219780  0.004525  0.000995  0.000000  0.015465
0.263736  0.004525  0.001193  0.000000  0.016409
0.307692  0.004525  0.001392  0.000000  0.017354
0.351648  0.004525  0.001591  0.000000  0.018298
0.395604  0.004525  0.001790  0.000000  0.019243
0.439560  0.004525  0.001989  0.000000  0.020187
0.483516  0.004525  0.002188  0.000000  0.021131
0.527473  0.004525  0.002387  0.024122  0.022076
0.571429  0.004525  0.002586  0.099620  0.023020
0.615385  0.004525  0.002785  0.194303  0.023965
0.659341  0.004525  0.002984  0.284544  0.024909
0.703297  0.004525  0.003183  0.350332  0.025854
0.747253  0.004525  0.003382  0.387674  0.026798
0.791209  0.004525  0.003580  0.424915  0.027742
0.835165  0.004525  0.003779  0.455857  0.028687
0.879121  0.004525  0.003978  0.484829  0.029631
0.923077  0.004525  0.004177  0.512164  0.030576
0.967033  0.004525  0.004376  0.538113  0.031520
1.000000  0.004525  0.004525  0.562866  0.032228
END FTABLE 39
FTABLE     42
 91    4
   Depth      Area    Volume  Outflow1 Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)   (ft/sec)    (Minutes)***
0.000000  0.000000  0.000000  0.000000
0.022222  0.001877  0.000028  0.000362
0.044444  0.002639  0.000079  0.000511
0.066667  0.003214  0.000144  0.000626
0.088889  0.003690  0.000221  0.000723
0.111111  0.004102  0.000307  0.000809
0.133333  0.004467  0.000403  0.000886
0.155556  0.004796  0.000506  0.000957
0.177778  0.005096  0.000616  0.001023
0.200000  0.005372  0.000732  0.001085
0.222222  0.005627  0.000854  0.001144
0.244444  0.005865  0.000982  0.001199
0.266667  0.006087  0.001115  0.001253
0.288889  0.006295  0.001252  0.001304
0.311111  0.006490  0.001394  0.001353
0.333333  0.006673  0.001541  0.001401
0.355556  0.006846  0.001691  0.001447
0.377778  0.007009  0.001845  0.001491
0.400000  0.007163  0.002002  0.001534
0.422222  0.007308  0.002163  0.001576
0.444444  0.007444  0.002327  0.001617
0.466667  0.007574  0.002494  0.001657
0.488889  0.007695  0.002664  0.001696
0.511111  0.007810  0.002836  0.001734
0.533333  0.007918  0.003011  0.001772
0.555556  0.008020  0.003188  0.001808
0.577778  0.008116  0.003367  0.001844
0.600000  0.008206  0.003548  0.001879
0.622222  0.008290  0.003732  0.001914
```

```
0.644444  0.008368  0.003917  0.001948
0.666667  0.008441  0.004104  0.001981
0.688889  0.008509  0.004292  0.002014
0.711111  0.008571  0.004482  0.002046
0.733333  0.008629  0.004673  0.002078
0.755556  0.008682  0.004865  0.002109
0.777778  0.008729  0.005059  0.002140
0.800000  0.008772  0.005253  0.002170
0.822222  0.008811  0.005449  0.002200
0.844444  0.008844  0.005645  0.002229
0.866667  0.008873  0.005842  0.002259
0.888889  0.008898  0.006039  0.002287
0.911111  0.008918  0.006237  0.002316
0.933333  0.008933  0.006435  0.002344
0.955556  0.008944  0.006634  0.002372
0.977778  0.008951  0.006833  0.002399
1.000000  0.008953  0.007032  0.002426
1.022222  0.008951  0.007231  0.037599
1.044444  0.008944  0.007430  0.101800
1.066667  0.008933  0.007628  0.184740
1.088889  0.008918  0.007827  0.282486
1.111111  0.008898  0.008025  0.392396
1.133333  0.008873  0.008222  0.512245
1.155556  0.008844  0.008419  0.639929
1.177778  0.008811  0.008615  0.773342
1.200000  0.008772  0.008810  0.910334
1.222222  0.008729  0.009005  1.048712
1.244444  0.008682  0.009198  1.186265
1.266667  0.008629  0.009391  1.320810
1.288889  0.008571  0.009582  1.450249
1.311111  0.008509  0.009772  1.572638
1.333333  0.008441  0.009960  1.686269
1.355556  0.008368  0.010147  1.789753
1.377778  0.008290  0.010332  1.882118
1.400000  0.008206  0.010515  1.962905
1.422222  0.008116  0.010696  2.032282
1.444444  0.008020  0.010876  2.091149
1.466667  0.007918  0.011053  2.141264
1.488889  0.007810  0.011228  2.185361
1.511111  0.007695  0.011400  2.254717
1.533333  0.007574  0.011570  2.303169
1.555556  0.007444  0.011737  2.350621
1.577778  0.007308  0.011900  2.397135
1.600000  0.007163  0.012061  2.442762
1.622222  0.007009  0.012219  2.487552
1.644444  0.006846  0.012373  2.531549
1.666667  0.006673  0.012523  2.574794
1.688889  0.006490  0.012669  2.617325
1.711111  0.006295  0.012811  2.659175
1.733333  0.006087  0.012949  2.700376
1.755556  0.005865  0.013082  2.740958
1.777778  0.005627  0.013209  2.780947
1.800000  0.005372  0.013332  2.820370
1.822222  0.005096  0.013448  2.859248
1.844444  0.004796  0.013558  2.897605
1.866667  0.004467  0.013661  2.935461
1.888889  0.004102  0.013756  2.972834
1.911111  0.003690  0.013843  3.009743
1.933333  0.003214  0.013920  3.046205
1.955556  0.002639  0.013985  3.082235
1.977778  0.001877  0.014036  3.117849
2.000000  0.001000  0.014064  3.153061
END FTABLE 42
FTABLE     43
 91    4
   Depth      Area    Volume  Outflow1 Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)   (ft/sec)    (Minutes)***
0.000000  0.000000  0.000000  0.000000
0.022222  0.003927  0.000058  0.000697
0.044444  0.005523  0.000164  0.000986
```

0.066667	0.006725	0.000301	0.001208
0.088889	0.007721	0.000462	0.001395
0.111111	0.008582	0.000643	0.001559
0.133333	0.009346	0.000842	0.001708
0.155556	0.010034	0.001058	0.001845
0.177778	0.010662	0.001288	0.001972
0.200000	0.011240	0.001531	0.002092
0.222222	0.011774	0.001787	0.002205
0.244444	0.012272	0.002054	0.002313
0.266667	0.012736	0.002332	0.002416
0.288889	0.013171	0.002620	0.002514
0.311111	0.013579	0.002918	0.002609
0.333333	0.013963	0.003224	0.002701
0.355556	0.014324	0.003538	0.002789
0.377778	0.014665	0.003860	0.002875
0.400000	0.014986	0.004190	0.002958
0.422222	0.015290	0.004526	0.003040
0.444444	0.015576	0.004869	0.003118
0.466667	0.015846	0.005218	0.003195
0.488889	0.016101	0.005573	0.003271
0.511111	0.016341	0.005934	0.003344
0.533333	0.016568	0.006299	0.003416
0.555556	0.016781	0.006670	0.003487
0.577778	0.016981	0.007045	0.003556
0.600000	0.017169	0.007424	0.003623
0.622222	0.017345	0.007808	0.003690
0.644444	0.017509	0.008195	0.003755
0.666667	0.017661	0.008586	0.003819
0.688889	0.017803	0.008980	0.003882
0.711111	0.017934	0.009377	0.003945
0.733333	0.018054	0.009777	0.004006
0.755556	0.018164	0.010180	0.004066
0.777778	0.018264	0.010584	0.004125
0.800000	0.018354	0.010991	0.004184
0.822222	0.018434	0.011400	0.004242
0.844444	0.018505	0.011810	0.004299
0.866667	0.018566	0.012222	0.004355
0.888889	0.018617	0.012636	0.004410
0.911111	0.018659	0.013050	0.004465
0.933333	0.018691	0.013465	0.004519
0.955556	0.018714	0.013880	0.004573
0.977778	0.018728	0.014296	0.004625
1.000000	0.018733	0.014713	0.004678
1.022222	0.018728	0.015129	0.039876
1.044444	0.018714	0.015545	0.104101
1.066667	0.018691	0.015961	0.187065
1.088889	0.018659	0.016376	0.284836
1.111111	0.018617	0.016790	0.394770
1.133333	0.018566	0.017203	0.514642
1.155556	0.018505	0.017615	0.642349
1.177778	0.018434	0.018025	0.775785
1.200000	0.018354	0.018434	0.912800
1.222222	0.018264	0.018841	1.051201
1.244444	0.018164	0.019246	1.188777
1.266667	0.018054	0.019648	1.323344
1.288889	0.017934	0.020048	1.452805
1.311111	0.017803	0.020445	1.575217
1.333333	0.017661	0.020839	1.688869
1.355556	0.017509	0.021230	1.792375
1.377778	0.017345	0.021617	1.884761
1.400000	0.017169	0.022001	1.965569
1.422222	0.016981	0.022380	2.034967
1.444444	0.016781	0.022756	2.093855
1.466667	0.016568	0.023126	2.143991
1.488889	0.016341	0.023492	2.188109
1.511111	0.016101	0.023852	2.257485
1.533333	0.015846	0.024207	2.305957
1.555556	0.015576	0.024556	2.353430
1.577778	0.015290	0.024899	2.399963
1.600000	0.014986	0.025236	2.445610

```
  1.622222  0.014665  0.025565  2.490420
  1.644444  0.014324  0.025887  2.534436
  1.666667  0.013963  0.026202  2.577701
  1.688889  0.013579  0.026508  2.620251
  1.711111  0.013171  0.026805  2.662120
  1.733333  0.012736  0.027093  2.703341
  1.755556  0.012272  0.027371  2.743941
  1.777778  0.011774  0.027638  2.783950
  1.800000  0.011240  0.027894  2.823391
  1.822222  0.010662  0.028137  2.862288
  1.844444  0.010034  0.028367  2.900663
  1.866667  0.009346  0.028583  2.938537
  1.888889  0.008582  0.028782  2.975929
  1.911111  0.007721  0.028964  3.012856
  1.933333  0.006725  0.029124  3.049336
  1.955556  0.005523  0.029261  3.085384
  1.977778  0.003927  0.029367  3.121016
  2.000000  0.001000  0.029425  3.156245
  END FTABLE 43
END FTABLES

EXT SOURCES
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   # <Name> # tem strg<-factor->strg <Name>   #   #        <Name> # #  ***
WDM      2 PREC     ENGL    1              PERLND   1 999 EXTNL  PREC
WDM      2 PREC     ENGL    1              IMPLND   1 999 EXTNL  PREC
WDM      1 EVAP     ENGL    0.85           PERLND   1 999 EXTNL  PETINP
WDM      1 EVAP     ENGL    0.85           IMPLND   1 999 EXTNL  PETINP
WDM      2 PREC     ENGL    1              RCHRES   1     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES   3     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES   5     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES   7     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES   9     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  11     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  13     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  15     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  17     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  19     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  21     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  23     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  25     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  27     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  29     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  31     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  33     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  35     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  37     EXTNL  PREC
WDM      2 PREC     ENGL    1              RCHRES  39     EXTNL  PREC
WDM      1 EVAP     ENGL    0.5            RCHRES   1     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES   2     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES   3     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES   4     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES   5     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES   6     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES   7     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES   8     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES   9     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  10     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  11     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  12     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  13     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  14     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  15     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  16     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  17     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  18     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  19     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  20     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.5            RCHRES  21     EXTNL  POTEV
WDM      1 EVAP     ENGL    0.595          RCHRES  22     EXTNL  POTEV
```

```
WDM        1 EVAP     ENGL     0.5              RCHRES  23      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  24      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  25      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  26      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  27      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  28      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  29      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  30      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  31      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  32      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  33      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  34      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  35      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  36      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  37      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  38      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.5              RCHRES  39      EXTNL   POTEV
WDM        1 EVAP     ENGL     0.595            RCHRES  40      EXTNL   POTEV

END EXT SOURCES

EXT TARGETS
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name>   #        <Name> # #<-factor->strg <Name>   #  <Name>    tem strg strg***
RCHRES   2 HYDR   RO     1 1         1      WDM   1002 FLOW     ENGL       REPL
RCHRES   2 HYDR   O      1 1         1      WDM   1096 FLOW     ENGL       REPL
RCHRES   2 HYDR   O      2 1         1      WDM   1097 FLOW     ENGL       REPL
RCHRES   2 HYDR   STAGE  1 1         1      WDM   1003 STAG     ENGL       REPL
RCHRES   1 HYDR   STAGE  1 1         1      WDM   1004 STAG     ENGL       REPL
RCHRES   1 HYDR   O      1 1         1      WDM   1005 FLOW     ENGL       REPL
COPY     1 OUTPUT MEAN   1 1      12.1      WDM    701 FLOW     ENGL       REPL
COPY   501 OUTPUT MEAN   1 1      12.1      WDM    801 FLOW     ENGL       REPL
RCHRES   6 HYDR   RO     1 1         1      WDM   1010 FLOW     ENGL       REPL
RCHRES   6 HYDR   O      1 1         1      WDM   1100 FLOW     ENGL       REPL
RCHRES   6 HYDR   O      2 1         1      WDM   1101 FLOW     ENGL       REPL
RCHRES   6 HYDR   STAGE  1 1         1      WDM   1011 STAG     ENGL       REPL
RCHRES   5 HYDR   STAGE  1 1         1      WDM   1012 STAG     ENGL       REPL
RCHRES   5 HYDR   O      1 1         1      WDM   1013 FLOW     ENGL       REPL
RCHRES  41 HYDR   RO     1 1         1      WDM   1014 FLOW     ENGL       REPL
RCHRES  41 HYDR   STAGE  1 1         1      WDM   1015 STAG     ENGL       REPL
RCHRES   8 HYDR   RO     1 1         1      WDM   1018 FLOW     ENGL       REPL
RCHRES   8 HYDR   O      1 1         1      WDM   1102 FLOW     ENGL       REPL
RCHRES   8 HYDR   O      2 1         1      WDM   1103 FLOW     ENGL       REPL
RCHRES   8 HYDR   STAGE  1 1         1      WDM   1019 STAG     ENGL       REPL
RCHRES   7 HYDR   STAGE  1 1         1      WDM   1020 STAG     ENGL       REPL
RCHRES   7 HYDR   O      1 1         1      WDM   1021 FLOW     ENGL       REPL
RCHRES  10 HYDR   RO     1 1         1      WDM   1022 FLOW     ENGL       REPL
RCHRES  10 HYDR   O      1 1         1      WDM   1104 FLOW     ENGL       REPL
RCHRES  10 HYDR   O      2 1         1      WDM   1105 FLOW     ENGL       REPL
RCHRES  10 HYDR   STAGE  1 1         1      WDM   1023 STAG     ENGL       REPL
RCHRES   9 HYDR   STAGE  1 1         1      WDM   1024 STAG     ENGL       REPL
RCHRES   9 HYDR   O      1 1         1      WDM   1025 FLOW     ENGL       REPL
RCHRES  14 HYDR   RO     1 1         1      WDM   1030 FLOW     ENGL       REPL
RCHRES  14 HYDR   O      1 1         1      WDM   1108 FLOW     ENGL       REPL
RCHRES  14 HYDR   O      2 1         1      WDM   1109 FLOW     ENGL       REPL
RCHRES  14 HYDR   STAGE  1 1         1      WDM   1031 STAG     ENGL       REPL
RCHRES  13 HYDR   STAGE  1 1         1      WDM   1032 STAG     ENGL       REPL
RCHRES  13 HYDR   O      1 1         1      WDM   1033 FLOW     ENGL       REPL
RCHRES  16 HYDR   RO     1 1         1      WDM   1034 FLOW     ENGL       REPL
RCHRES  16 HYDR   O      1 1         1      WDM   1110 FLOW     ENGL       REPL
RCHRES  16 HYDR   O      2 1         1      WDM   1111 FLOW     ENGL       REPL
RCHRES  16 HYDR   STAGE  1 1         1      WDM   1035 STAG     ENGL       REPL
RCHRES  15 HYDR   STAGE  1 1         1      WDM   1036 STAG     ENGL       REPL
RCHRES  15 HYDR   O      1 1         1      WDM   1037 FLOW     ENGL       REPL
RCHRES  18 HYDR   RO     1 1         1      WDM   1038 FLOW     ENGL       REPL
RCHRES  18 HYDR   O      1 1         1      WDM   1112 FLOW     ENGL       REPL
RCHRES  18 HYDR   O      2 1         1      WDM   1113 FLOW     ENGL       REPL
RCHRES  18 HYDR   STAGE  1 1         1      WDM   1039 STAG     ENGL       REPL
RCHRES  17 HYDR   STAGE  1 1         1      WDM   1040 STAG     ENGL       REPL
RCHRES  17 HYDR   O      1 1         1      WDM   1041 FLOW     ENGL       REPL
```

```
RCHRES  20 HYDR    RO      1 1         1       WDM    1042 FLOW      ENGL       REPL
RCHRES  20 HYDR    O       1 1         1       WDM    1114 FLOW      ENGL       REPL
RCHRES  20 HYDR    O       2 1         1       WDM    1115 FLOW      ENGL       REPL
RCHRES  20 HYDR    STAGE   1 1         1       WDM    1043 STAG      ENGL       REPL
RCHRES  19 HYDR    STAGE   1 1         1       WDM    1044 STAG      ENGL       REPL
RCHRES  19 HYDR    O       1 1         1       WDM    1045 FLOW      ENGL       REPL
RCHRES  22 HYDR    RO      1 1         1       WDM    1046 FLOW      ENGL       REPL
RCHRES  22 HYDR    O       1 1         1       WDM    1116 FLOW      ENGL       REPL
RCHRES  22 HYDR    O       2 1         1       WDM    1117 FLOW      ENGL       REPL
RCHRES  22 HYDR    STAGE   1 1         1       WDM    1047 STAG      ENGL       REPL
RCHRES  21 HYDR    STAGE   1 1         1       WDM    1048 STAG      ENGL       REPL
RCHRES  21 HYDR    O       1 1         1       WDM    1049 FLOW      ENGL       REPL
RCHRES  24 HYDR    RO      1 1         1       WDM    1050 FLOW      ENGL       REPL
RCHRES  24 HYDR    O       1 1         1       WDM    1118 FLOW      ENGL       REPL
RCHRES  24 HYDR    O       2 1         1       WDM    1119 FLOW      ENGL       REPL
RCHRES  24 HYDR    STAGE   1 1         1       WDM    1051 STAG      ENGL       REPL
RCHRES  23 HYDR    STAGE   1 1         1       WDM    1052 STAG      ENGL       REPL
RCHRES  23 HYDR    O       1 1         1       WDM    1053 FLOW      ENGL       REPL
RCHRES  26 HYDR    RO      1 1         1       WDM    1054 FLOW      ENGL       REPL
RCHRES  26 HYDR    O       1 1         1       WDM    1120 FLOW      ENGL       REPL
RCHRES  26 HYDR    O       2 1         1       WDM    1121 FLOW      ENGL       REPL
RCHRES  26 HYDR    STAGE   1 1         1       WDM    1055 STAG      ENGL       REPL
RCHRES  25 HYDR    STAGE   1 1         1       WDM    1056 STAG      ENGL       REPL
RCHRES  25 HYDR    O       1 1         1       WDM    1057 FLOW      ENGL       REPL
RCHRES  28 HYDR    RO      1 1         1       WDM    1058 FLOW      ENGL       REPL
RCHRES  28 HYDR    O       1 1         1       WDM    1122 FLOW      ENGL       REPL
RCHRES  28 HYDR    O       2 1         1       WDM    1123 FLOW      ENGL       REPL
RCHRES  28 HYDR    STAGE   1 1         1       WDM    1059 STAG      ENGL       REPL
RCHRES  27 HYDR    STAGE   1 1         1       WDM    1060 STAG      ENGL       REPL
RCHRES  27 HYDR    O       1 1         1       WDM    1061 FLOW      ENGL       REPL
RCHRES  30 HYDR    RO      1 1         1       WDM    1062 FLOW      ENGL       REPL
RCHRES  30 HYDR    O       1 1         1       WDM    1124 FLOW      ENGL       REPL
RCHRES  30 HYDR    O       2 1         1       WDM    1125 FLOW      ENGL       REPL
RCHRES  30 HYDR    STAGE   1 1         1       WDM    1063 STAG      ENGL       REPL
RCHRES  29 HYDR    STAGE   1 1         1       WDM    1064 STAG      ENGL       REPL
RCHRES  29 HYDR    O       1 1         1       WDM    1065 FLOW      ENGL       REPL
RCHRES  32 HYDR    RO      1 1         1       WDM    1066 FLOW      ENGL       REPL
RCHRES  32 HYDR    O       1 1         1       WDM    1126 FLOW      ENGL       REPL
RCHRES  32 HYDR    O       2 1         1       WDM    1127 FLOW      ENGL       REPL
RCHRES  32 HYDR    STAGE   1 1         1       WDM    1067 STAG      ENGL       REPL
RCHRES  31 HYDR    STAGE   1 1         1       WDM    1068 STAG      ENGL       REPL
RCHRES  31 HYDR    O       1 1         1       WDM    1069 FLOW      ENGL       REPL
RCHRES  34 HYDR    RO      1 1         1       WDM    1070 FLOW      ENGL       REPL
RCHRES  34 HYDR    O       1 1         1       WDM    1128 FLOW      ENGL       REPL
RCHRES  34 HYDR    O       2 1         1       WDM    1129 FLOW      ENGL       REPL
RCHRES  34 HYDR    STAGE   1 1         1       WDM    1071 STAG      ENGL       REPL
RCHRES  33 HYDR    STAGE   1 1         1       WDM    1072 STAG      ENGL       REPL
RCHRES  33 HYDR    O       1 1         1       WDM    1073 FLOW      ENGL       REPL
RCHRES  36 HYDR    RO      1 1         1       WDM    1074 FLOW      ENGL       REPL
RCHRES  36 HYDR    O       1 1         1       WDM    1130 FLOW      ENGL       REPL
RCHRES  36 HYDR    O       2 1         1       WDM    1131 FLOW      ENGL       REPL
RCHRES  36 HYDR    STAGE   1 1         1       WDM    1075 STAG      ENGL       REPL
RCHRES  35 HYDR    STAGE   1 1         1       WDM    1076 STAG      ENGL       REPL
RCHRES  35 HYDR    O       1 1         1       WDM    1077 FLOW      ENGL       REPL
RCHRES  38 HYDR    RO      1 1         1       WDM    1078 FLOW      ENGL       REPL
RCHRES  38 HYDR    O       1 1         1       WDM    1132 FLOW      ENGL       REPL
RCHRES  38 HYDR    O       2 1         1       WDM    1133 FLOW      ENGL       REPL
RCHRES  38 HYDR    STAGE   1 1         1       WDM    1079 STAG      ENGL       REPL
RCHRES  37 HYDR    STAGE   1 1         1       WDM    1080 STAG      ENGL       REPL
RCHRES  37 HYDR    O       1 1         1       WDM    1081 FLOW      ENGL       REPL
RCHRES  42 HYDR    RO      1 1         1       WDM    1086 FLOW      ENGL       REPL
RCHRES  42 HYDR    STAGE   1 1         1       WDM    1087 STAG      ENGL       REPL
RCHRES  43 HYDR    RO      1 1         1       WDM    1088 FLOW      ENGL       REPL
RCHRES  43 HYDR    STAGE   1 1         1       WDM    1089 STAG      ENGL       REPL
END EXT TARGETS

MASS-LINK
<Volume>    <-Grp> <-Member-><--Mult-->     <Target>       <-Grp> <-Member->***
<Name>             <Name> # #<-factor->     <Name>                <Name> # #***
  MASS-LINK         2
```

```
PERLND     PWATER SURO        0.083333      RCHRES          INFLOW IVOL
  END MASS-LINK    2

  MASS-LINK        3
PERLND     PWATER IFWO        0.083333      RCHRES          INFLOW IVOL
  END MASS-LINK    3

  MASS-LINK        5
IMPLND     IWATER SURO        0.083333      RCHRES          INFLOW IVOL
  END MASS-LINK    5

  MASS-LINK        7
RCHRES     OFLOW  OVOL   1                  RCHRES          INFLOW IVOL
  END MASS-LINK    7

  MASS-LINK        8
RCHRES     OFLOW  OVOL   2                  RCHRES          INFLOW IVOL
  END MASS-LINK    8

  MASS-LINK       12
PERLND     PWATER SURO        0.083333      COPY            INPUT  MEAN
  END MASS-LINK   12

  MASS-LINK       13
PERLND     PWATER IFWO        0.083333      COPY            INPUT  MEAN
  END MASS-LINK   13

  MASS-LINK       15
IMPLND     IWATER SURO        0.083333      COPY            INPUT  MEAN
  END MASS-LINK   15

  MASS-LINK       16
RCHRES     ROFLOW                           COPY            INPUT  MEAN
  END MASS-LINK   16

  MASS-LINK       17
RCHRES     OFLOW  OVOL   1                  COPY            INPUT  MEAN
  END MASS-LINK   17


END MASS-LINK

END RUN
```

Disclaimer

Legal Notice

This program and accompanying documentation are provided 'as-is' without warranty of any kind. The entire risk regarding the performance and results of this program is assumed by End User. Clear Creek Solutions Inc. and the governmental licensee or sublicensees disclaim all warranties, either expressed or implied, including but not limited to implied warranties of program and accompanying documentation. In no event shall Clear Creek Solutions Inc. be liable for any damages whatsoever (including without limitation to damages for loss of business profits, loss of business information, business interruption, and the like) arising out of the use of, or inability to use this program even if Clear Creek Solutions Inc. or their authorized representatives have been advised of the possibility of such damages. Software Copyright © by : Clear Creek Solutions, Inc. 2005-2023; All Rights Reserved.

Clear Creek Solutions, Inc.
6200 Capitol Blvd. Ste F
Olympia, WA. 98501
Toll Free 1(866)943-0304
Local (360)943-0304

www.clearcreeksolutions.com

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	1.0	42.9%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	1.3	57.1%
Totals for Area of Interest			**2.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

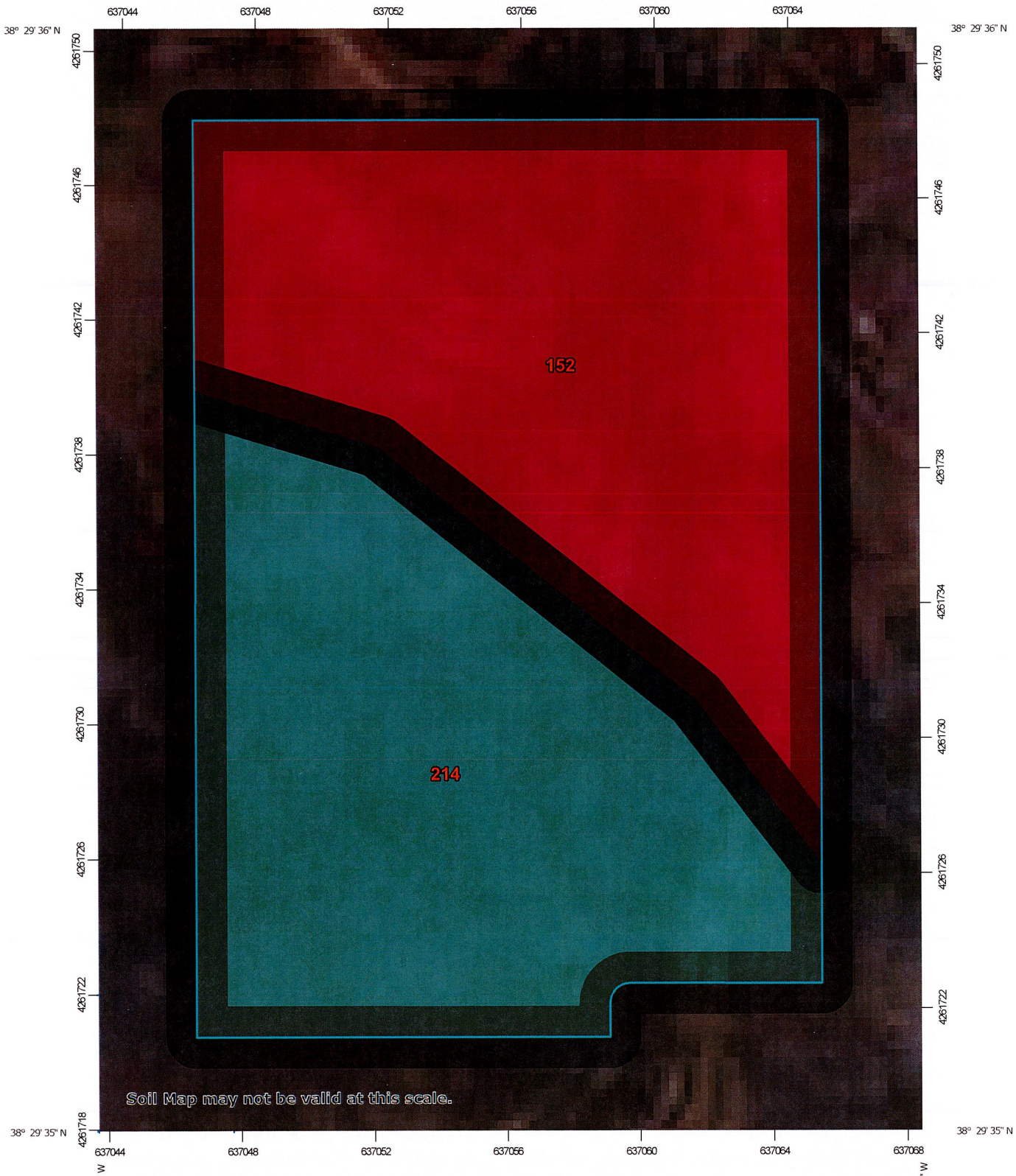
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:159 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 2 4 8 12

Feet
0 5 10 20 30

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.1	50.0%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	50.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

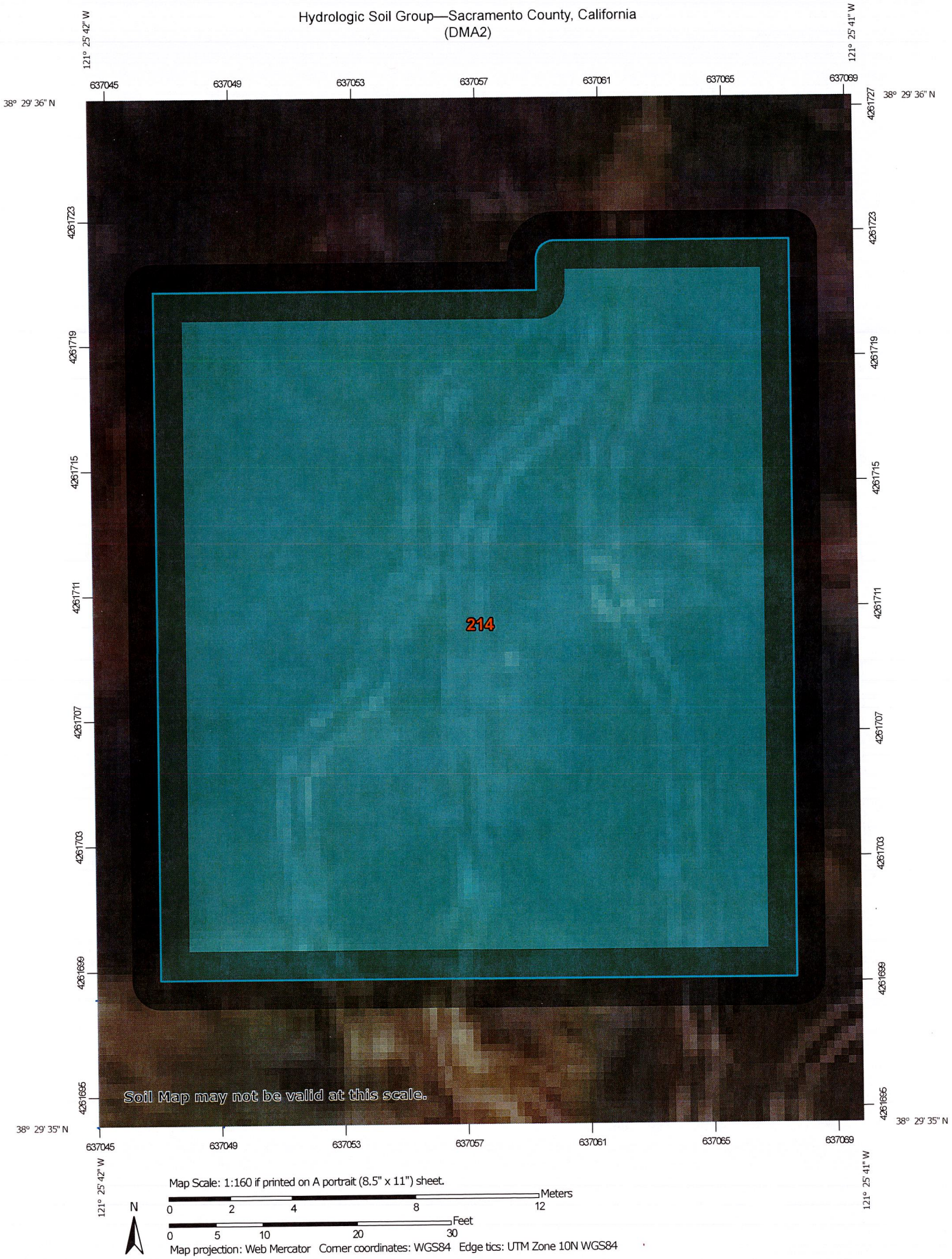
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher


121° 25' 42" W
121° 25' 41" W
637045
637049
637053
637057
637061
637065
637069
38° 29' 36" N
38° 29' 35" N
4261727
4261723
4261719
4261715
4261711
4261707
4261703
4261699
4261695
214
Soil Map may not be valid at this scale.
Map Scale: 1:160 if printed on A portrait (8.5" x 11") sheet.
Meters
0 2 4 8 12
Feet
0 5 10 20 30
N
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

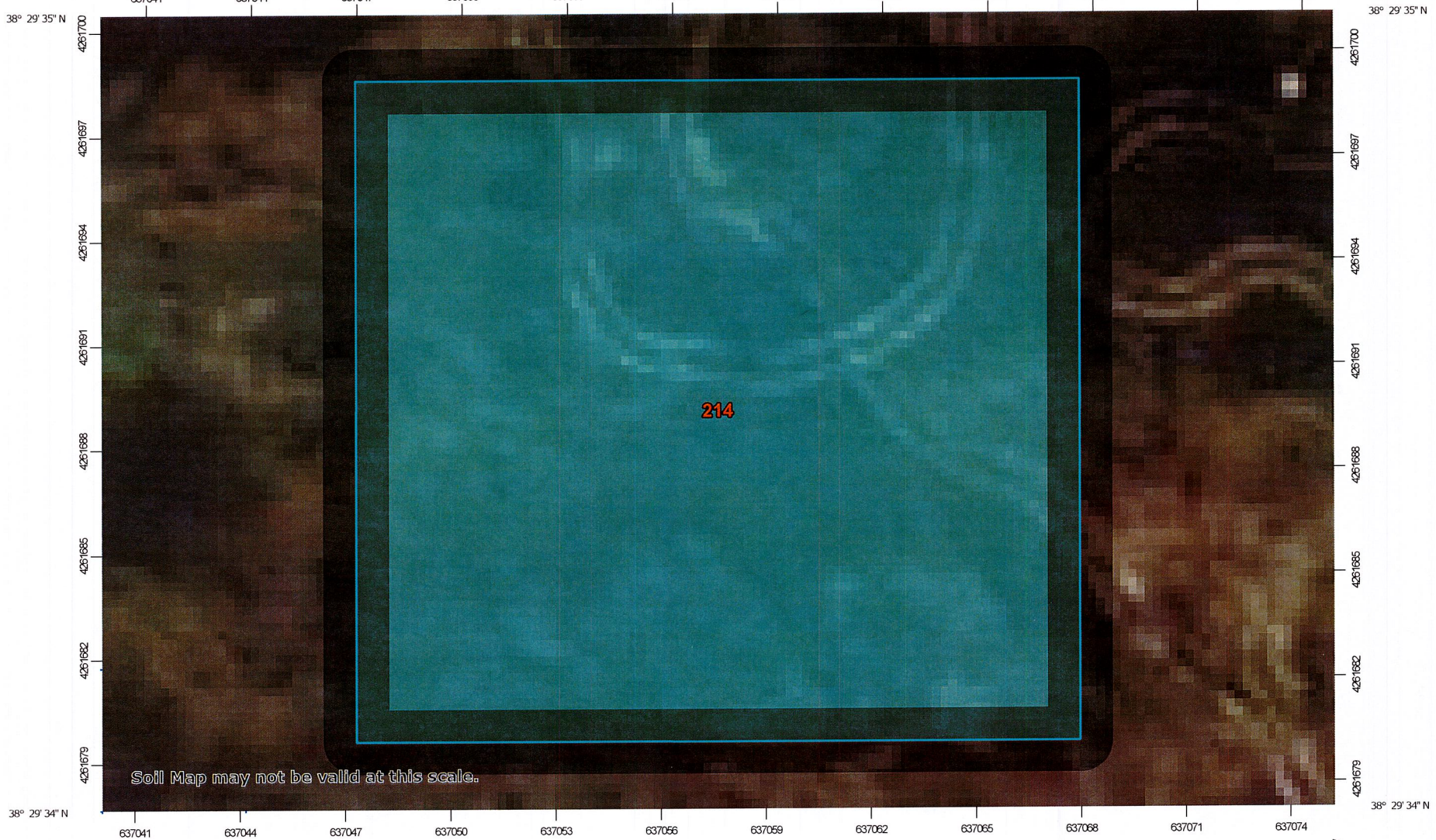
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA3)



Map Scale: 1:161 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 2 4 8 12

Feet
0 5 10 20 30

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

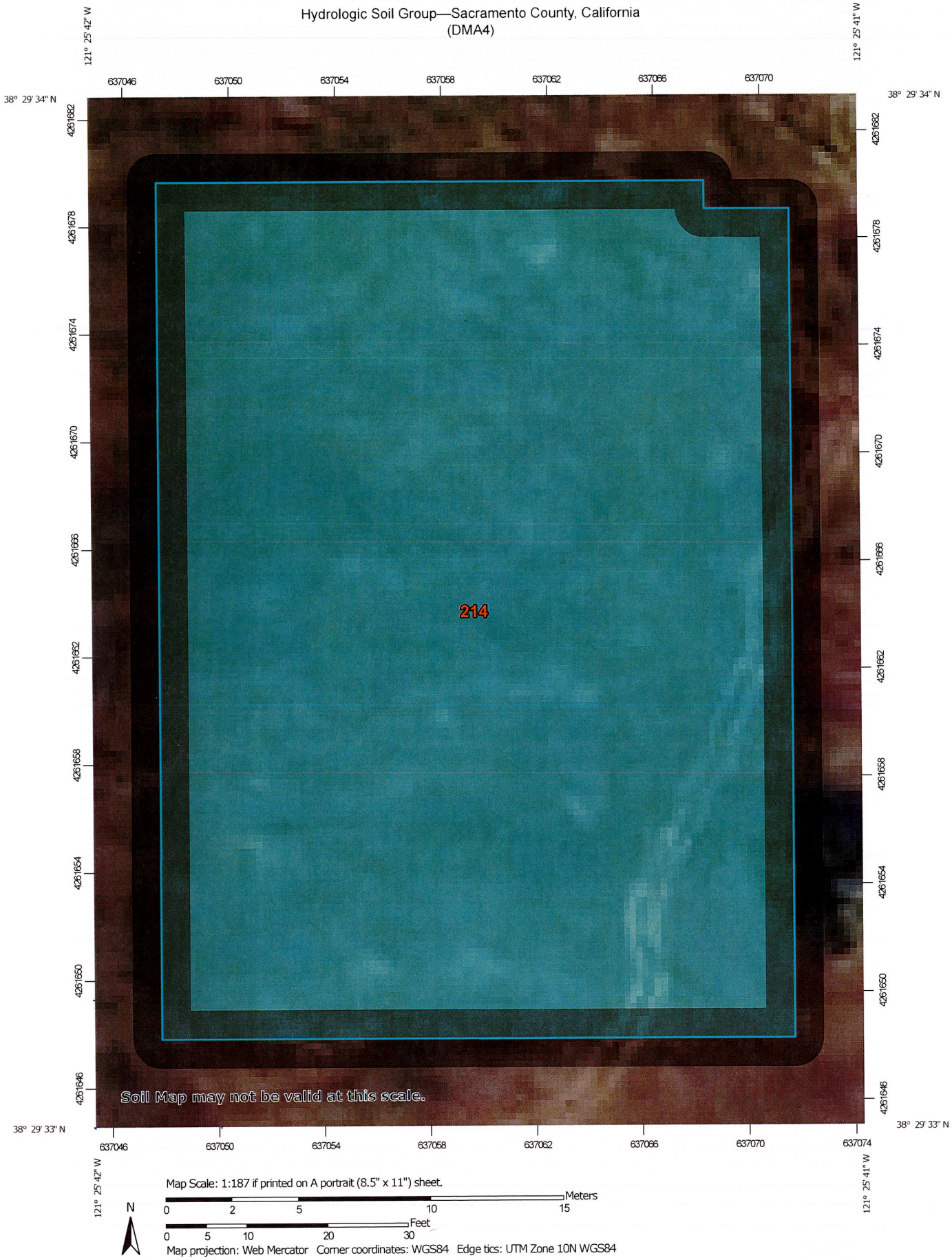
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher


121° 25' 42" W
121° 25' 41" W
637046
637050
637054
637058
637062
637066
637070
637074
38° 29' 34" N
38° 29' 33" N
4261682
4261678
4261674
4261670
4261666
4261662
4261658
4261654
4261650
4261646
214
Soil Map may not be valid at this scale.
Map Scale: 1:187 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 2 5 10 15
Feet
0 5 10 20 30
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.2	100.0%
Totals for Area of Interest			**0.2**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

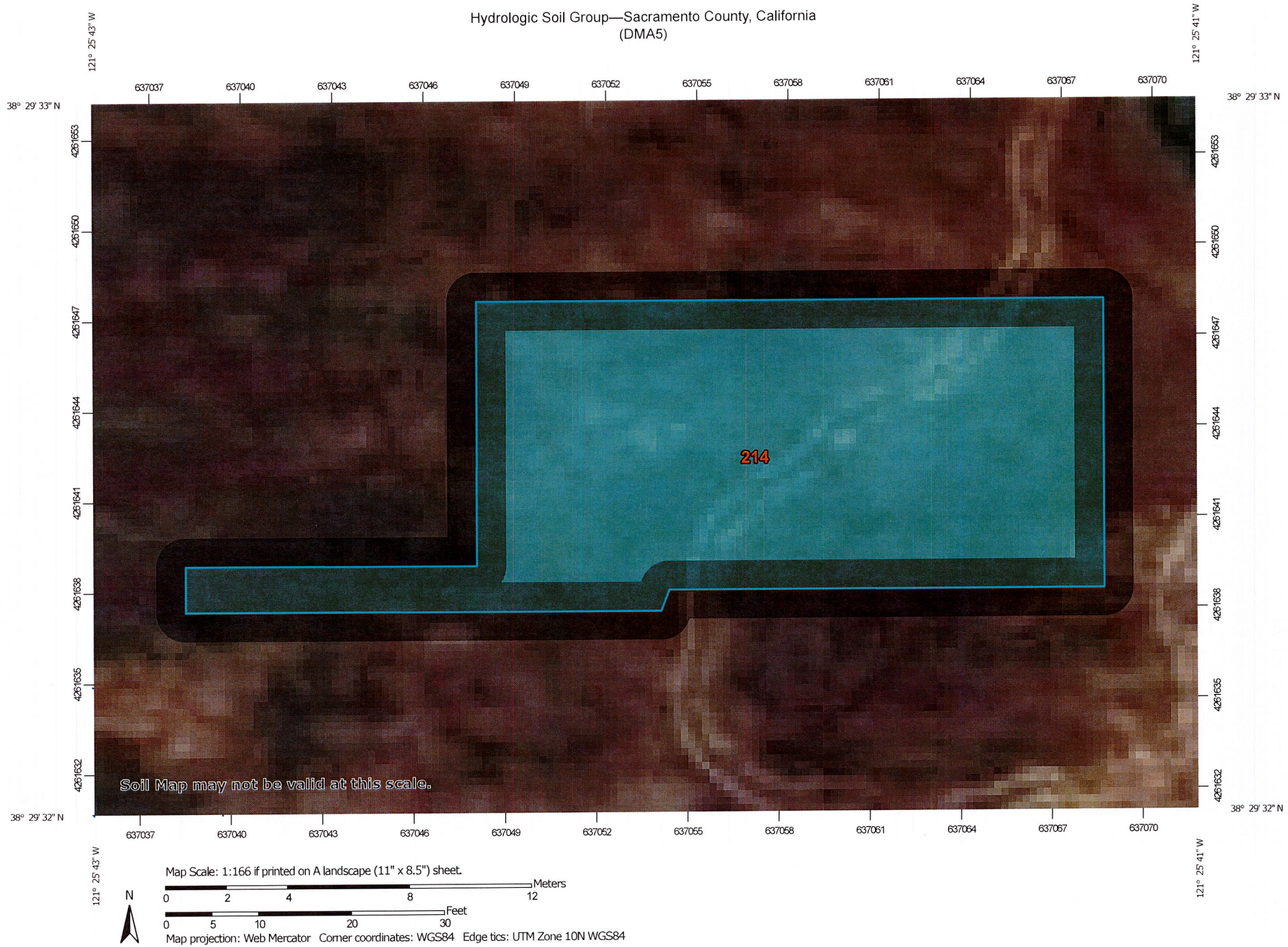
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA5)



Map Scale: 1:166 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 2 4 8 12

Feet
0 5 10 20 30

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

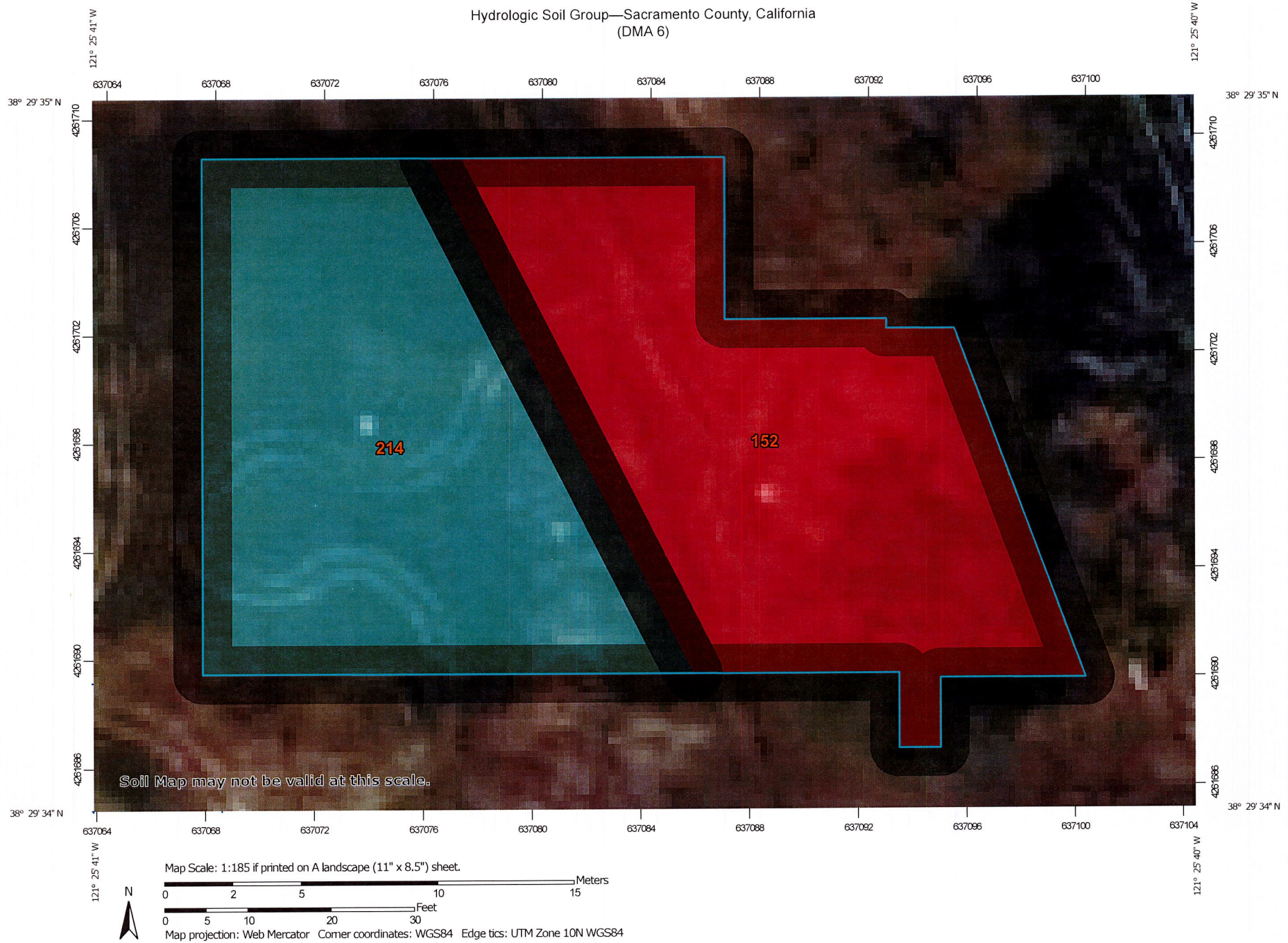
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA 6)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.1	50.8%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	49.2%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

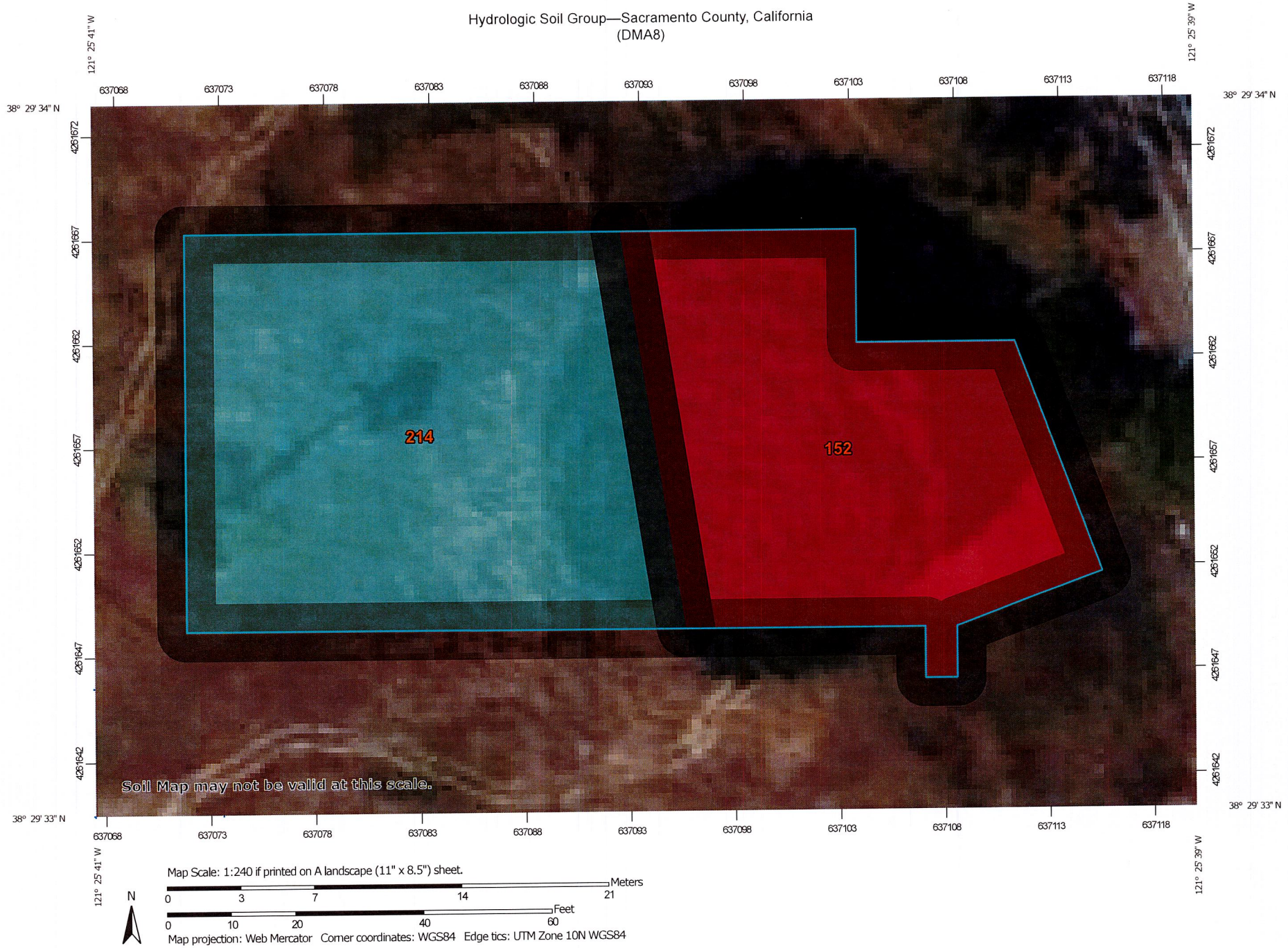
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA8)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.1	42.7%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	57.3%
Totals for Area of Interest			**0.2**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

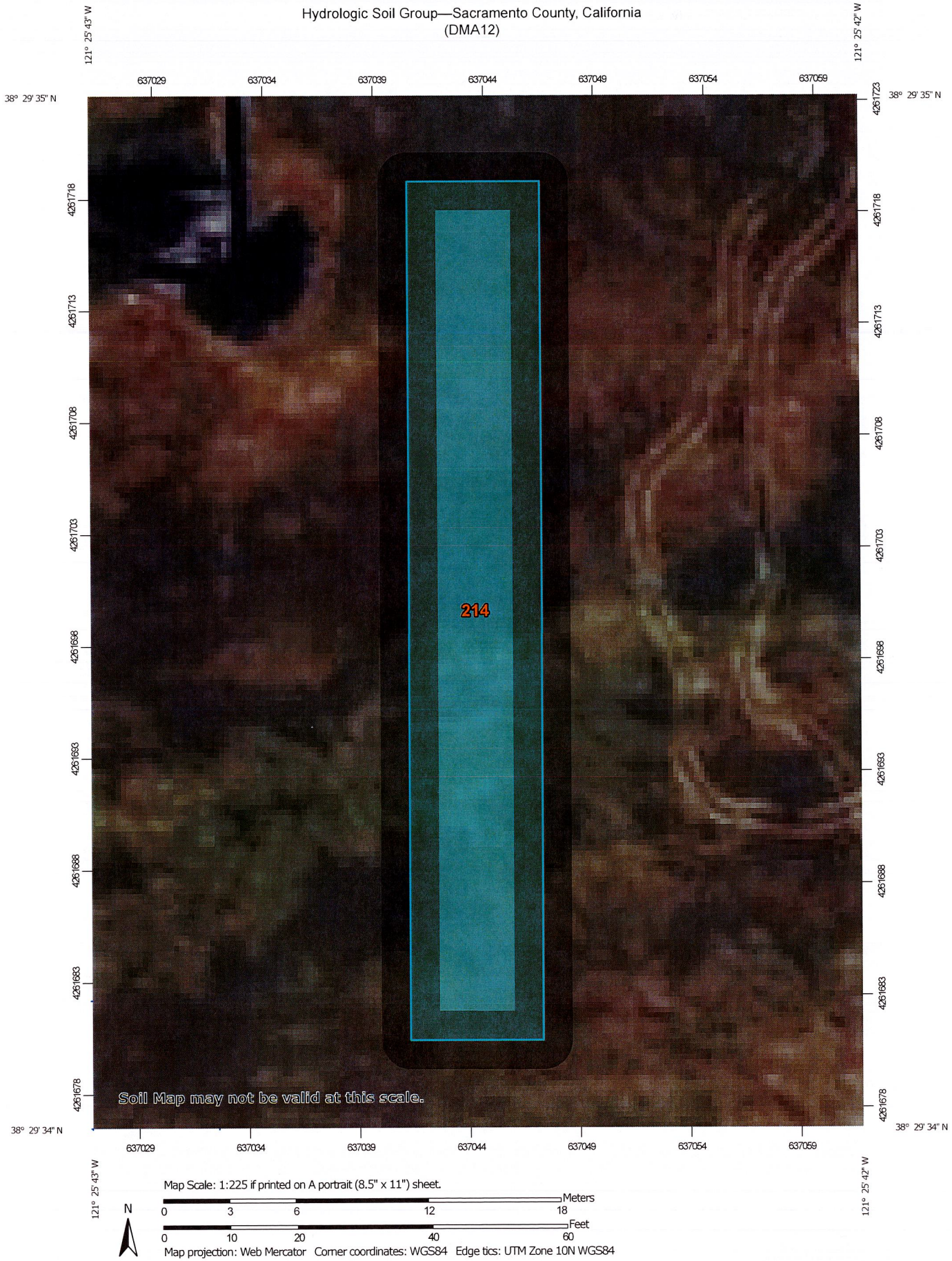
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:225 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 3 6 12 18

Feet
0 10 20 40 60

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

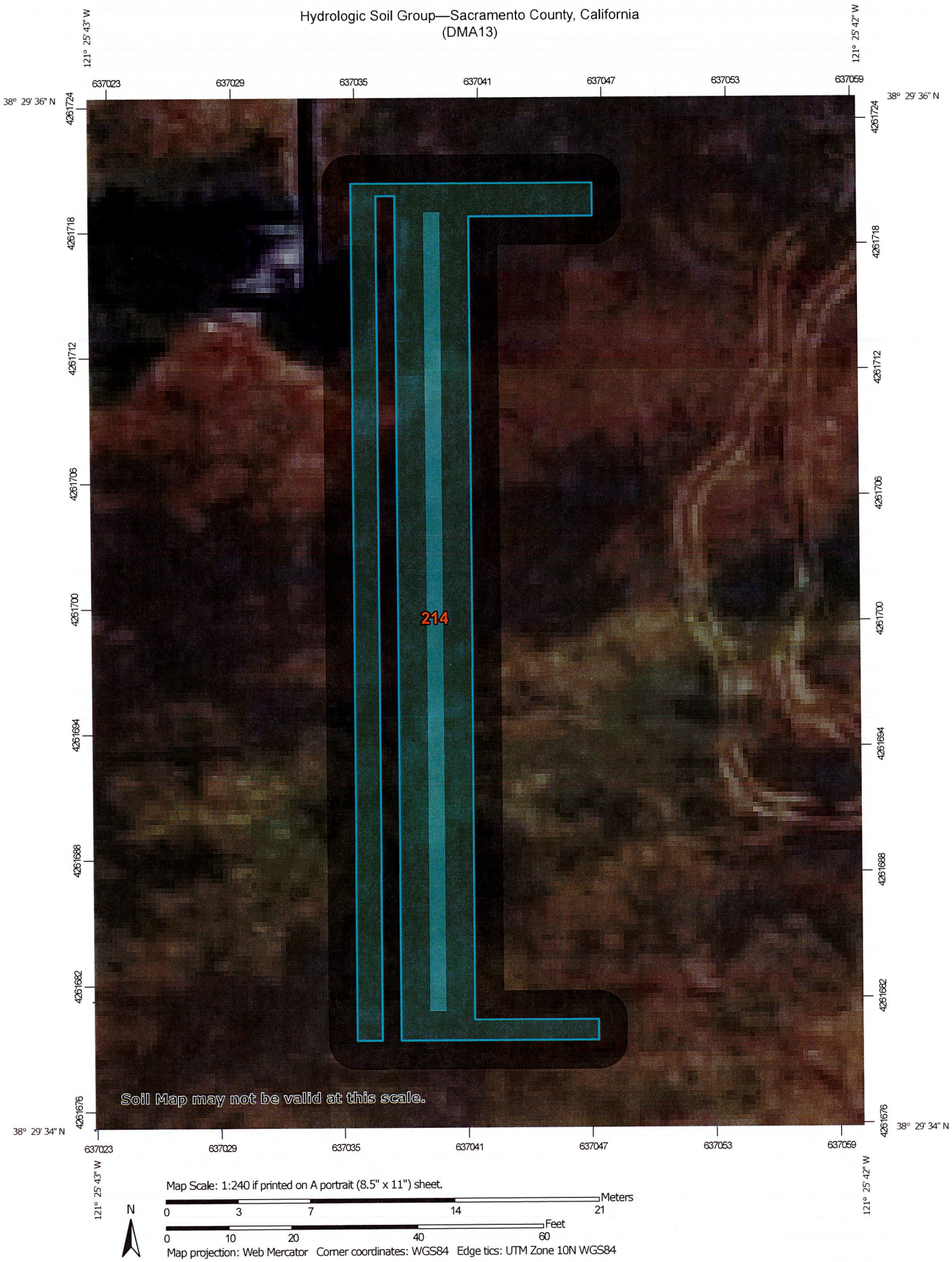
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:240 if printed on A portrait (8.5" x 11") sheet.

Meters: 0 3 7 14 21

Feet: 0 10 20 40 60

N

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

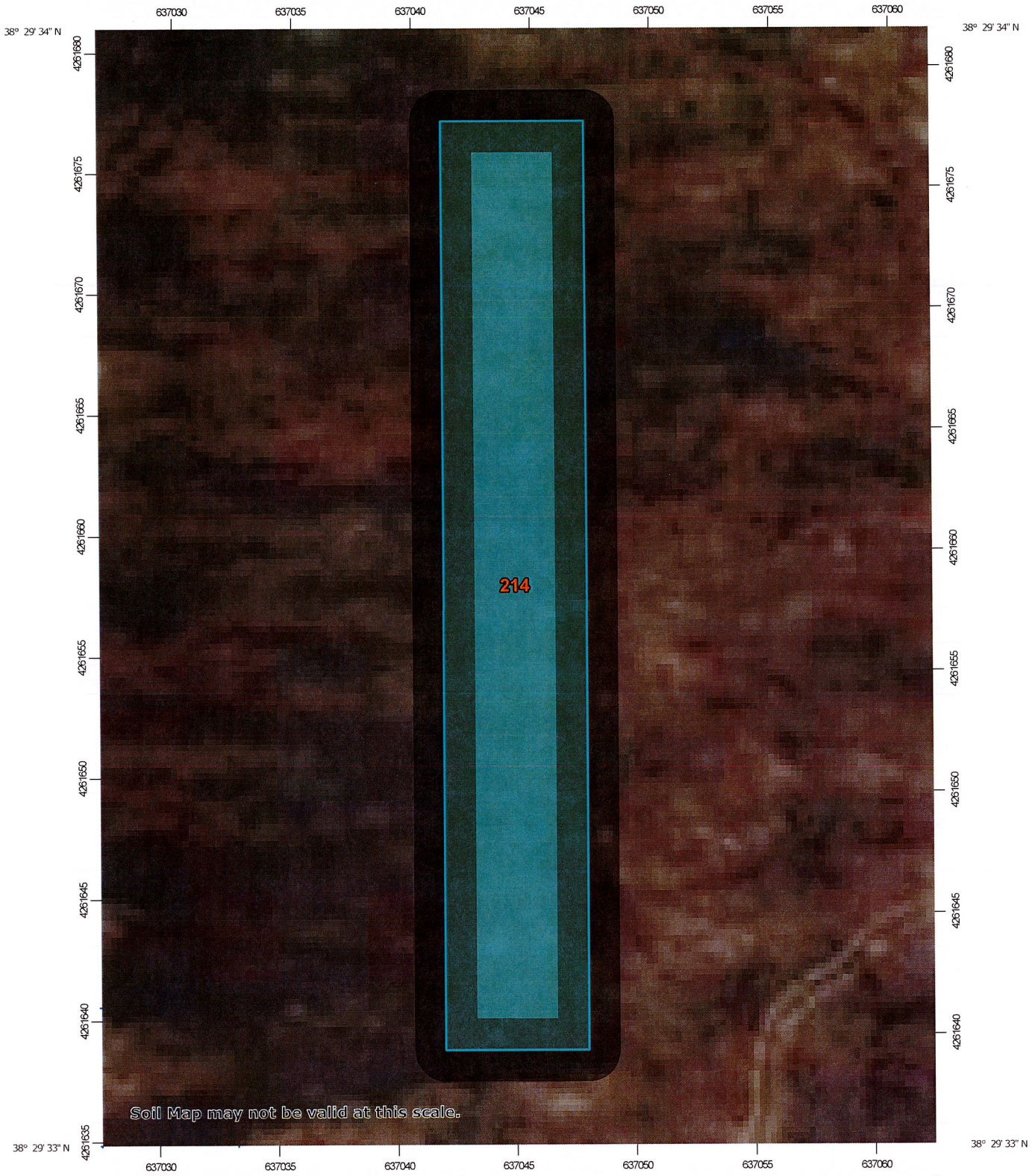
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:225 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 3 6 12 18

Feet
0 10 20 40 60

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

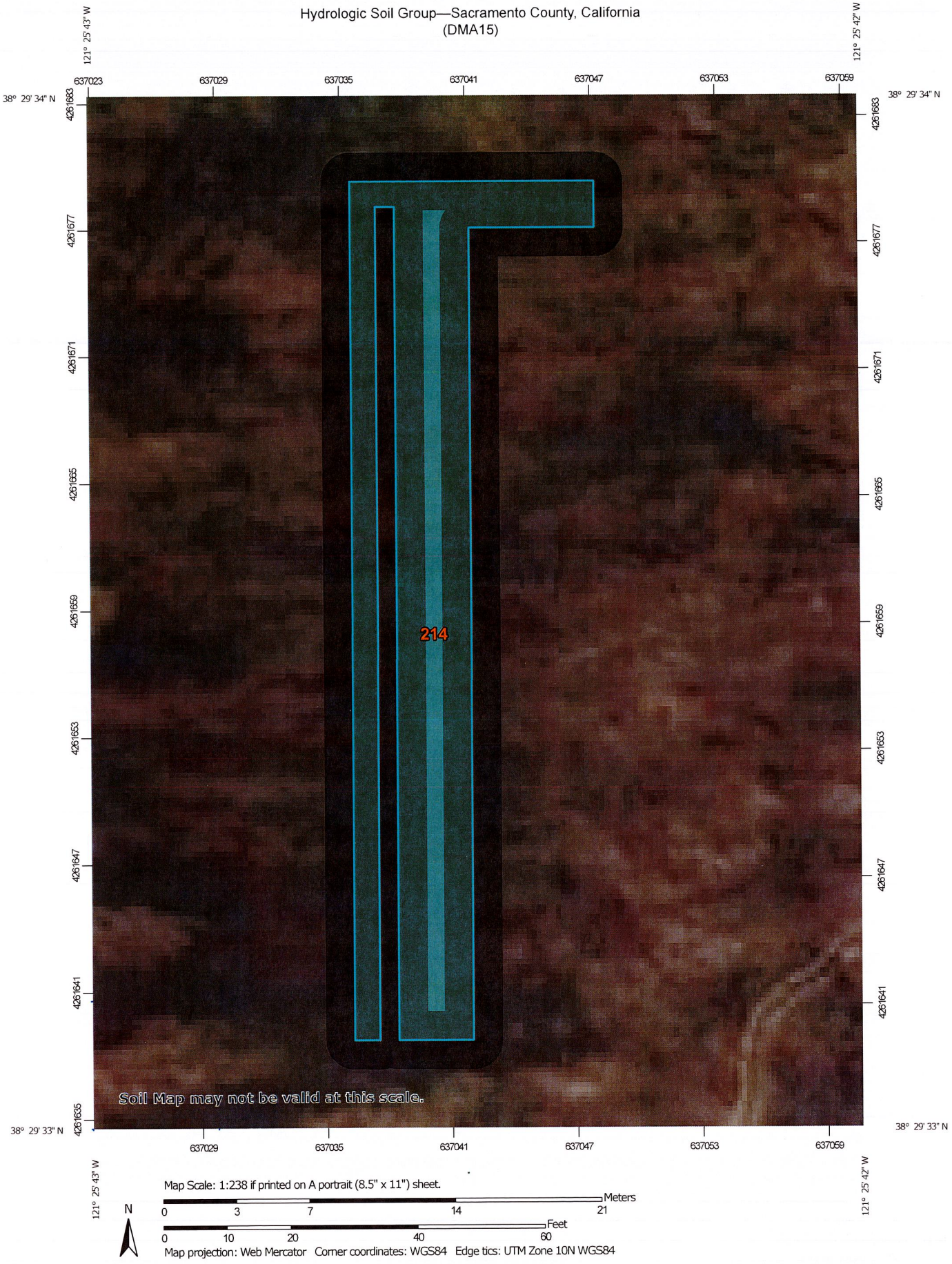
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:238 if printed on A portrait (8.5" x 11") sheet.

Meters: 0 3 7 14 21

Feet: 0 10 20 40 60

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	100.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher


121° 25' 42" W
121° 25' 41" W
38° 29' 36" N
38° 29' 35" N
637061
637065
637069
637073
637077
637081
637085
4261751
4261747
4261743
4261739
4261735
4261731
4261727
4261723
4261719
152
214
Soil Map may not be valid at this scale.
Map Scale: 1:161 if printed on A portrait (8.5" x 11") sheet.
Meters
0 2 4 8 12
Feet
0 5 10 20 30
N
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.1	98.0%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.0	2.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

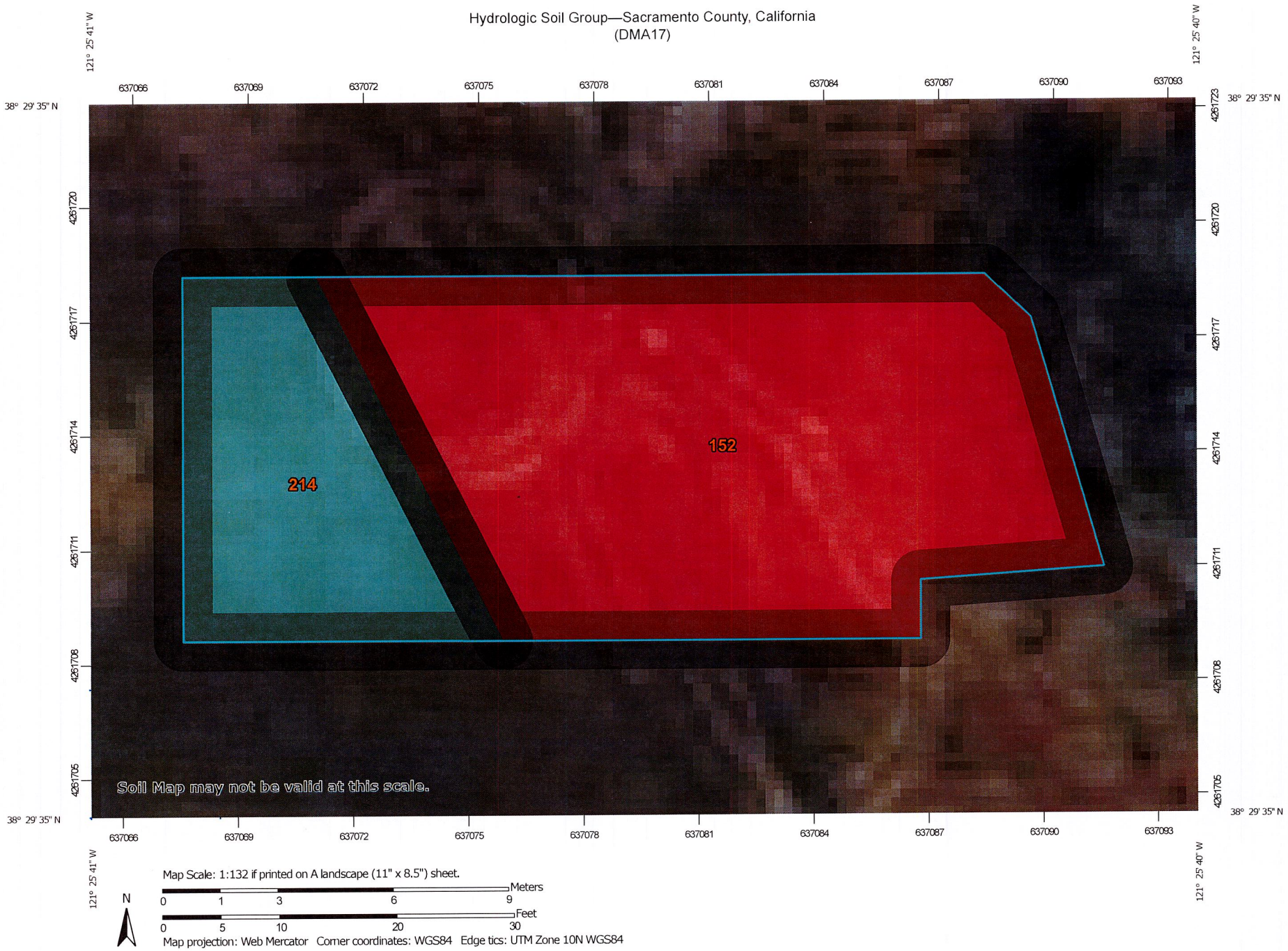
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA17)



Map Scale: 1:132 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 1 3 6 9

Feet
0 5 10 20 30

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.0	73.4%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.0	26.6%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

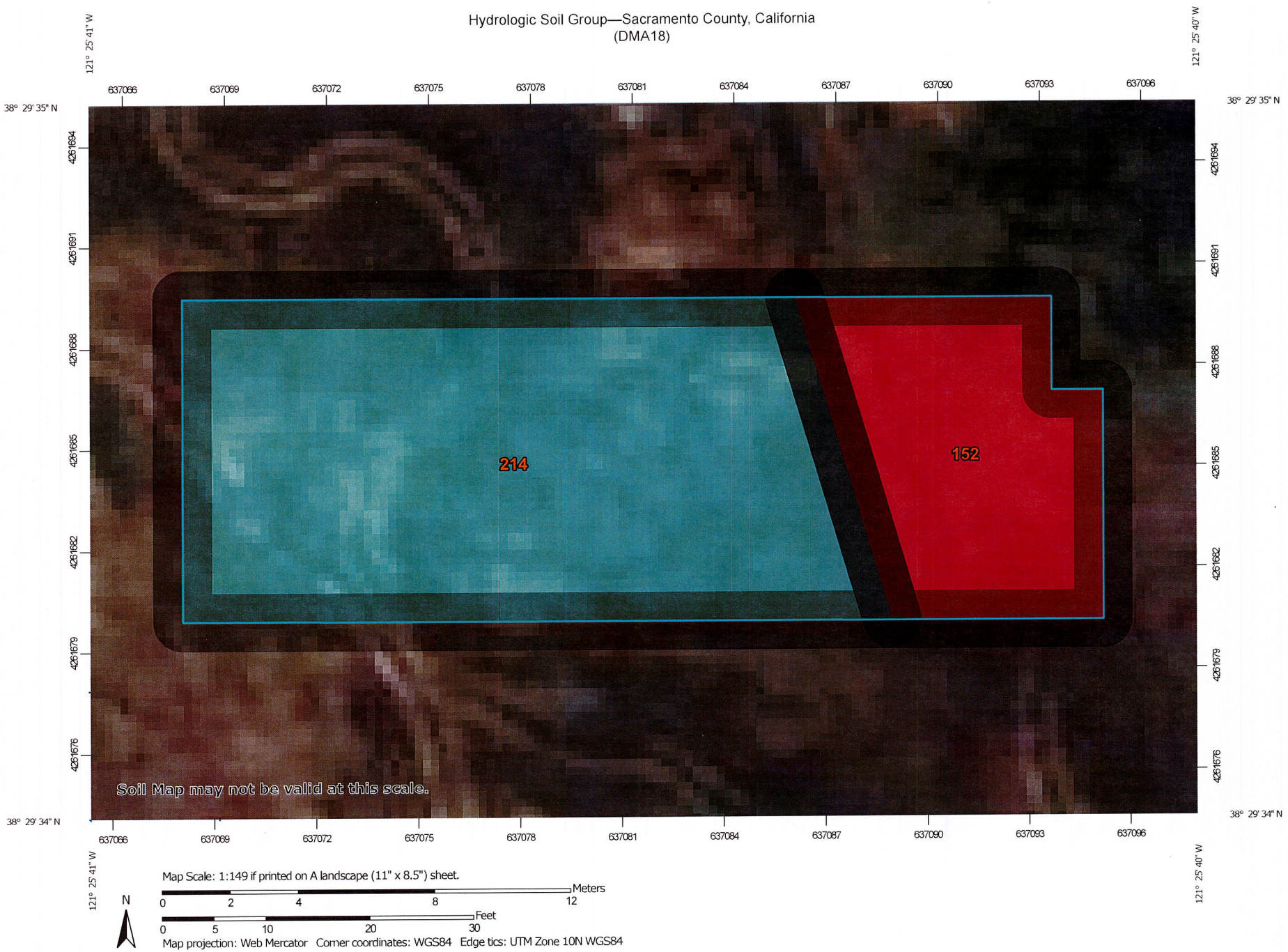
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA18)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.0	27.1%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.0	72.9%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

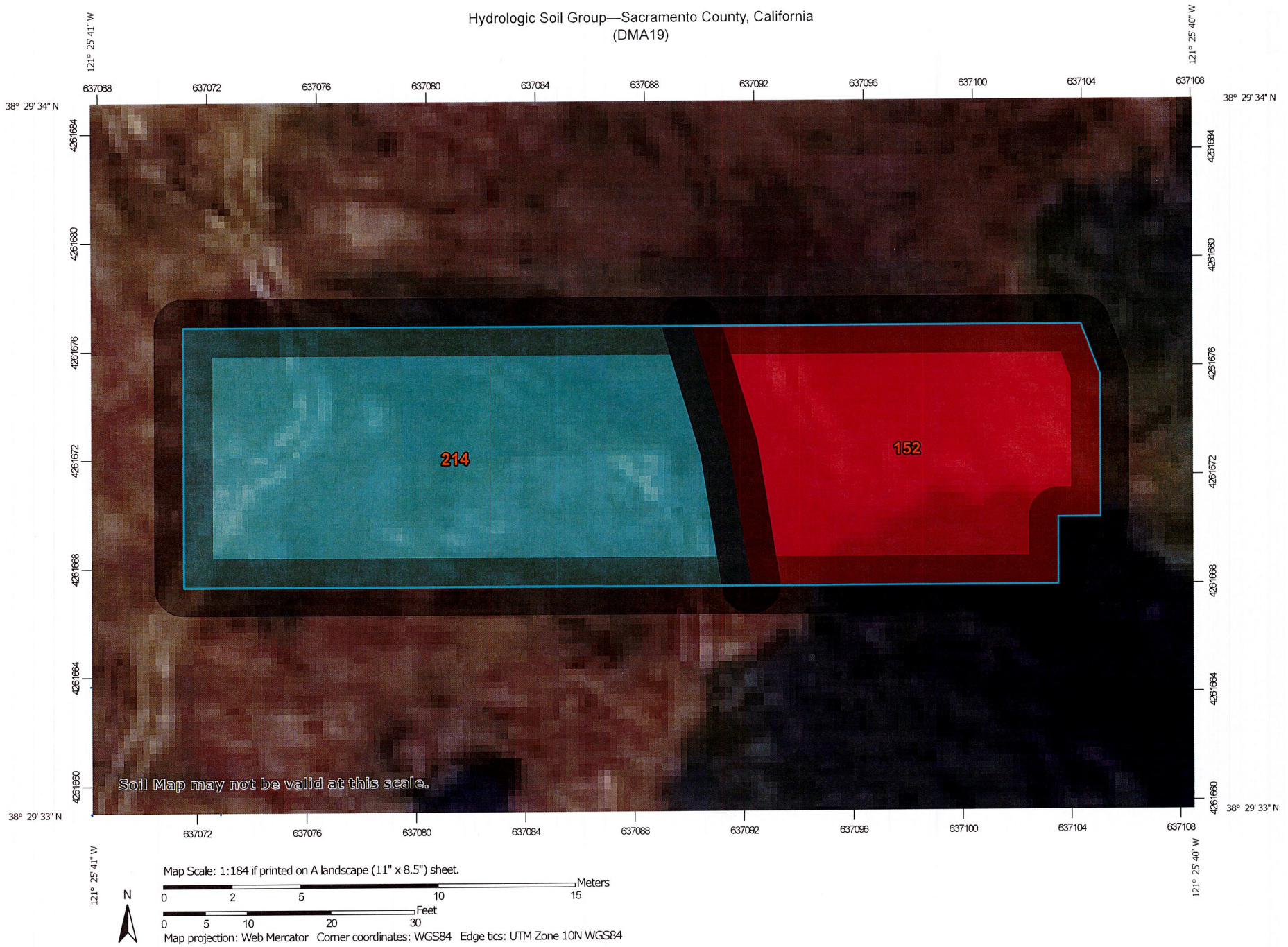
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA19)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.0	40.0%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.0	60.0%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

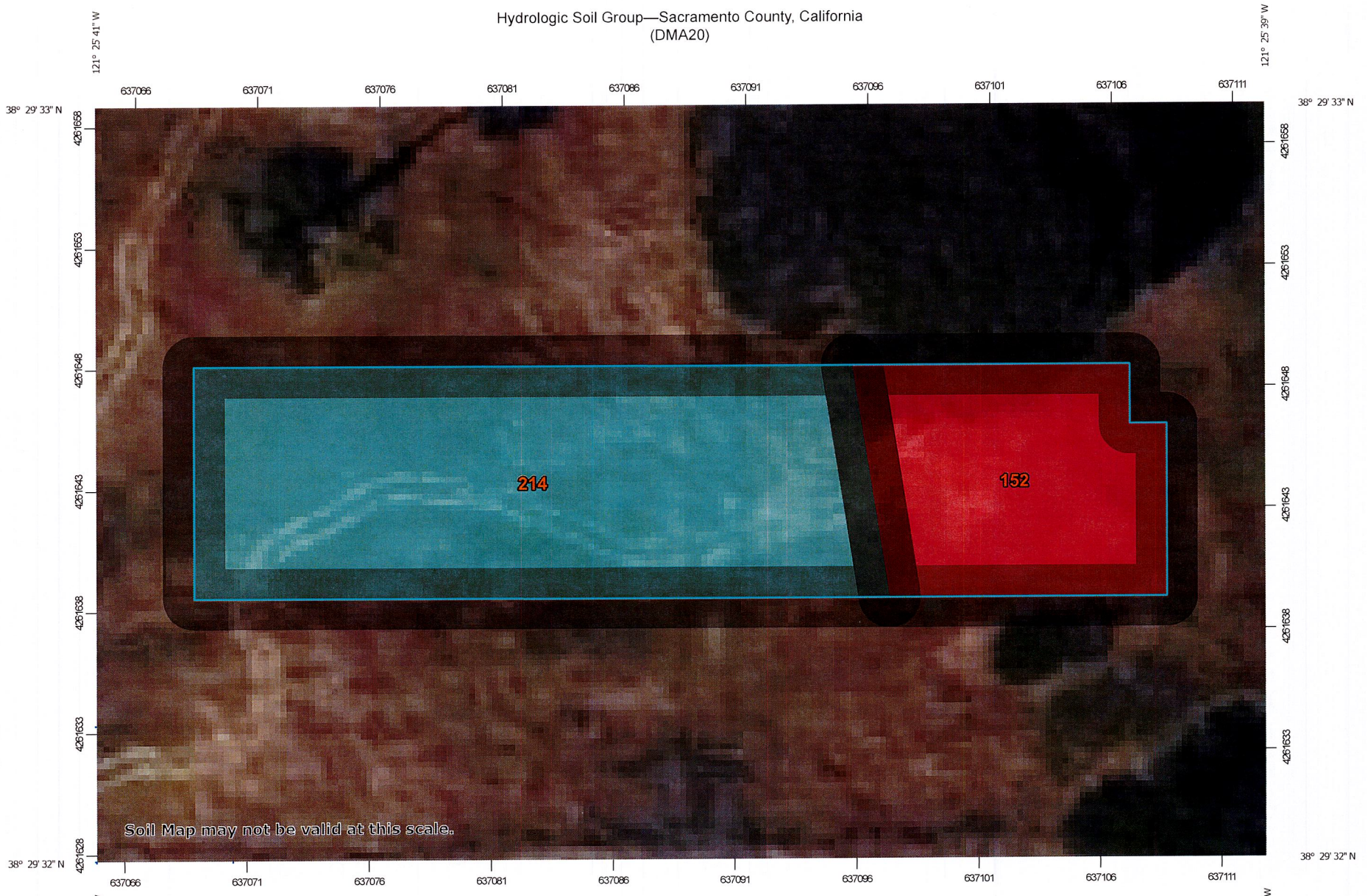
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Hydrologic Soil Group—Sacramento County, California
(DMA20)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 22, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
152	Galt clay, 0 to 1 percent slopes, MLRA 17	D	0.0	29.8%
214	San Joaquin silt loam, 0 to 3 percent slopes	C	0.1	70.2%
Totals for Area of Interest			**0.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix D-1: Residential Sites: Low Impact Development (LID) Credits and Treatment BMP Sizing Calculations

Name of Drainage Shed: Florian Townhomes
Location of project: Sacramento

Fill in Blue Highlighted boxes

Step 1 - Open Space and Pervious Area Credits

Is your project within the drainage area of a common drainage plan that includes open space? If not, skip to 1 b.

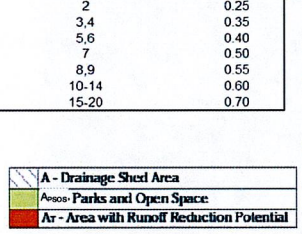
1 a. Common Drainage Plan Area	0	acres	A_{CDP}	
Common Drainage Plan Open Space (Off-project)	0	acres	A_{OS}	see area example below
a. Natural storage reservoirs and drainage corridors	0	acres		
b. Buffer zones for natural water bodies	0	acres		
c. Natural areas including existing trees, other vegetation, and soil	0	acres		
d. Common landscape area/park	0	acres		
e. Regional Flood Control/Drainage basins	0	acres		
1 b. Project Drainage Shed Area (Total)	1.77	acres	A	
Project-Specific Open Space (In-project, communal)**	0.00	acres	A_{PSOS}	see area example below
a. Natural storage reservoirs and drainage corridors	0.00	acres		
b. Buffer zones for natural water bodies	0.00	acres		
c. Natural areas including existing trees, other vegetation, and soil	0.00	acres		
d. Landscape area/park	0.00	acres		
e. Flood Control/Drainage basins	0.00	acres		

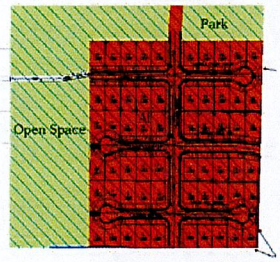
** Doesn't include impervious areas within individual lots and surrounding individual units. That is accounted for below using Form D-1a in Step 2.

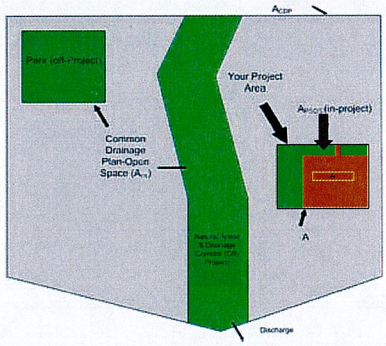
Area with Runoff Reduction Potential	$A - A_{PSOS}$ =	1.77	acres	A_T
Number of Units in A_T		38		
Number of units per acre in A_T	DU/A_T =	22		DUA
Assumed Initial Impervious Fraction of A_T (determined using Table D-1a)		0.7		I

Open Space & Pervious Area LID Credit (Step 1) $(A_{OS}/A_{CDP}+A_{PSOS}/A)x100$ = 0 pts

Table D-1a	
Dwelling units per acre	Imperviousness
1	0.17
2	0.25
3,4	0.35
5,6	0.40
7	0.50
8,9	0.55
10-14	0.60
15-20	0.70







Step 2 - Runoff Reduction Credits

Runoff Reduction Measures		Effective Area Managed (A_C)	
Disconnected Roof Drains (see Fact Sheet)	use Form D-1a for credits →	0.00	acres
Disconnected Pavement (see Fact Sheet)	use Form D-1b for credits →	0.00	acres
Interceptor Trees (see Fact Sheet)	use Form D-1c for credits →	0.00	acres
Alternative Driveway Design (see Fact Sheet)	use Form D-1d for credits →	0.00	acres
Total Effective Area Managed (Credit Area)	A_C	0.00	acres EAM

Runoff Reduction Credit (Step 2) $(A_C / A_T)*100$ = 0 pts

Form D-1a: Disconnected Roof Drains Worksheet

See Fact Sheet for more information regarding Disconnected Roof Drain credit guidelines

Effective Area Managed (A_E)

1. Determine efficiency Multiplier

Runoff is directed to a dispersal trench or dry well (Type A and B soils only)		1.00
Runoff is directed across landscaping, determine setback		
25 ft +	Use multiplier of	1.00
≥ 20 and < 25 ft	Use multiplier of	0.90
≥ 15 and < 20 ft	Use multiplier of	0.70
≥ 10 and < 15 ft	Use multiplier of	0.45
≥ 5 and < 10 ft	Use multiplier of	0.25

Efficiency Multiplier → [ ] Box J1

2. Determine percentage of roof drains disconnected → [ ] Box J2

3. Select project density in dwelling units per acre:

1	Use reduction factor of	0.08
2	Use reduction factor of	0.13
3,4	Use reduction factor of	0.19
5,6	Use reduction factor of	0.23
7	Use reduction factor of	0.29
8,9	Use reduction factor of	0.33
10-14	Use reduction factor of	0.37
15-20	Use reduction factor of	0.44

Reduction Factor → [0.44] Box J3

4. Determine Area Managed

Multiply Box J3 by A_T, and enter the result in Box J4 [0.8] acres Box J4

5. Multiply Boxes J1, J2 and J4, and enter 60% of the Result in Box J [0.0] acres Box J

This is the amount of area credit to enter into the "Disconnected Roof Drains" Box of Form D-1

Form D-1b: Disconnected Pavement Worksheet

See Fact Sheet for more information regarding NDC Pavement credit guidelines

Effective Area Managed (A_E)

Divided Sidewalks

1. Determine percentage of units with divided Sidewalks [0.0%] Box K1

Multiply Box K1, A_T, and 0.04 and enter 60% of the result in Box K [0.00] acres Box K

This is the amount of area credit to enter into the "Disconnected Pavement" Box of Form D-1

Form D-1c: Interceptor Tree Worksheet

See Fact Sheet for more information regarding Interceptor Tree credit guidelines

Effective Area Managed (A_E)

New Evergreen Trees

1. Enter number of new evergreen trees that qualify as Interceptor Trees in Box L1. [0] trees Box L1

2. Multiply Box L1 by 200 and enter result in Box L2 [0] sq. ft. Box L2

New Deciduous Trees

3. Enter number of new deciduous trees that qualify as Interceptor Trees in Box L3. [0] trees Box L3

4. Multiply Box L3 by 100 and enter result in Box L4 [0] sq. ft. Box L4

Existing Tree Canopy

5. Enter square footage of existing tree canopy that qualifies as Existing Tree canopy in Box L5. [0] sq. ft. Box L5

6. Multiply Box L5 by 0.5 and enter the result in Box L6 [0] sq. ft. Box L6

Total Interceptor Tree Credits

Add Boxes L2, L4, and L6 and enter it into Box L7 [0] sq. ft. Box L7

Divide Box L7 by 43,560 and multiply by 20% to get effective area managed and enter the result in Box L8 [0.00] acres Box L8

This is the amount of area credit to enter into the "Interceptor Trees" Box of Form D-1

Form D-1d: Alternative Driveway Design

See Fact Sheet for more information regarding Alternative Driveway Design credit guidelines

1. Select type of driveway

Pervious Driveway:	Multiplier:
Cobblestone Block P	0.40
Pervious Concrete/A	0.60
Modular Block Porous Pavement	0.75
Porous Gravel	
Not Directly-connected	1.00

[ ] Box M1

2. Determine percentage of units with Alternative Driveways: [ ] Box M2

4. Multiply Boxes M1, M2, A_T and 0.04, and enter the result in Box M [0.00] acres

This is the amount of area credit to enter into the "Alternative Driveway Design" Box of Form D-1

Step 3 - Runoff Management Credits

Capture and Use Credits

Impervious Area Managed by Rain barrels, Cisterns, and automatically-emptied systems

(see Fact Sheet) _____ enter gallons, for simple rain barrels | 0.00 | acres

Automated-Control Capture and Use System

(see Fact Sheet, then enter impervious area managed by the system) | 0.00 | acres

Bioretention/Infiltration Credits

Impervious Area Managed by Bioretention BMPs

(see Fact Sheet)

Bioretention Area 8,213 sq ft
Subdrain Elevation 22 inches
Ponding Depth, inches 6.0 inches | 1.41 | acres

Impervious Area Managed by Infiltration BMPs

(see Fact Sheet)

Drawdown Time, hrs _____ drawdown_hrs_inf
Soil Infiltration Rate, in/hr _____ soil_inf_rate

Sizing Option 1: Capture Volume, acre-ft _____ capture_vol_inf | 0.00 | acres

Sizing Option 2: Infiltration BMP surface area, sq ft _____ soil_surface_area | 0.00 | acres

Basin or trench? Basin approximate BMP depth 0.00 ft

Impervious Area Managed by Amended Soil or Mulch Beds

(see Fact Sheet) Mulched Infiltration Area, sq ft _____ mulch_area | 0.00 | acres

Total Effective Area Managed by Capture-and-Use/Bioretention/Infiltration BMPs | 1.41 | A_{LIDc}

Runoff Management Credit (Step 3) A_{LIDC}/A_T*200 = | 158.9 | pts

Total LID Credits (Step 1+2+3) LID compliant, check for treatment sizing in Step 4 | 158.9

Does project require hydromodification management? If yes, proceed to using SacHM.

Adjusted Area for Flow-Based, Non-LID Treatment $A_T - A_C - A_{LIDC}$ = | 0.36 | A_{AT}

Adjusted Impervious Fraction of A for Volume-Based, Non-LID Treatment $(A_T*I-A_C-A_{LIDC}) / A$ = | 0.000 | I_A

STOP: No additional treatment needed

Step 4a Treatment - Flow-Based (Rational Method)

Form D-1e

Calculate treatment flow (cfs): Flow = Runoff Coefficient x Rainfall Intensity x Adjusted Treatment Area

Determine C Factor using Table D-1b | | C

Determine i using Table D-1c (Rainfall Intensity) | 0.18 | i

A_{AT} from Step 2 | 0.36 | A_{AT}

Flow = C * i * A_{AT} | 0.00 | cfs

TABLE D-1b

Development Type	Runoff Coefficient (Rational), C
Single-family areas	0.50
Multi-units, detached	0.60
Apartment dwelling areas	0.70
Multi-units, attached	0.75
User Specified	0.00

Table D-1c

Rainfall Intensity		
Roseville	i = 0.20	in/hr
Sacramento	i = 0.18	in/hr
Folsom	i = 0.20	in/hr

Step 4b Treatment - Volume-Based (ASCE-WEF)

Calculate water quality volume (Acre-Feet): WQV = Area x Maximized Detention Volume (P_0)

Obtain A from Step 1 | 1.77 | A | _____ hrs | Specified Draw Down time

Obtain P_0: Maximized Detention Volume from figures E-1 to E-4 in Appendix E of this manual using I_A from Step 2. | 0.00 | P_0

Calculate treatment volume (acre-ft):

Treatment volume = A x (P_0 / 12) | 0.00 | Acre-Feet

v06232012