THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO: JACK ANDREWS, PE, CITY ENGINEER
MIKE REALS, FP PUBLIC WORKS MANAGER
CHIEF HOBLEY-BURNEY, FP POLICE DEPARTMENT
PAUL THOMAS, FP BUILDING OFFICIAL
JAMES CARNES, PE, FPUA ENGINEERING (WATER/WASTEWATER)
PAUL LAGUERRE, PE, FPUA ENGINEERING (ELECTRIC)
ROD REED, PLS, SLC SURVEYING
GRANT CHAMBERS, PE, SLC ENGINEERING
LESLIE OLSON, AICP, SLC PLANNING & DEVELOPMENT DIRECTOR
DIVISION CHIEF PAUL LANGEL, SLC FIRE DISTRICT
PEGGY ARRAIZ, FP CODE ENFORCEMENT
PETER BUCHWALD, AICP, SLC TRANSPORTATION PLANNING ORGANIZATION
MURRIAH DECKLE, AICP, SLC TRANSIT SERVICES

FROM: BRANDON CREAGAN, LEED GREEN ASSOCIATE, PLANNER

RE: TECHNICAL REVIEW PROJECT# 21-06000007

DATE: APRIL 30, 2021

Rezoning and Future Land Use – RV Storage – 2192 Copenhaver Road

Application for a Zoning Atlas Map Amendment and a Future Land Use Map Amendment. The property is zoned County Residential Single Family 2 du/acre (RS-2) with a Future Land Use of County Residential Urban 5 du/ac (RU). The property size is approximately 17.83 acres. The amendments would seek to change the zoning to General Commercial (C-3) and change the Future Land Use to General Commercial (GC). The applicant would like to get the Zoning & Future Land Use in place before moving forward to the Cities Development Review process. The property is currently going through the Cities Annexation process. The parcel ID is 2313-432-0000-000-4.

Please review and provide comments on the project. Please send all comments to my email Bcreagan@cityoffortpierce.com or through interoffice mail to the Planning Department. If you have comments, please respond by May 18, 2021.

Please do not hesitate to contact me should you require any additional information at 772-467-3742.

Thank you.

Brandon Creagan

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Application for Future Land Use Map Amendment

☒ Future Land Use Map Amendment – Large Scale (>10 acres)

☐ Future Land Use Map Amendment – Small Scale (<10 acres)

In accordance with Chapter 163.3187, Florida Statutes, The City of Fort Pierce will consider applications for land use changes on parcels in excess of 10 aces ("Large Scale Amendments") only twice each calendar year. The City Commission will consider applications for land use changes on parcels less than or equal to 10 acres with a maximum density of 10 units per acres or less at any time during the calendar year. You are encouraged to schedule a pre-application meeting with the planning staff and to submit your application up to three months in advance of the application deadline.

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (13) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- ☐ Warranty Deed & Legal Description
- ☐ St. Lucie County Property Record Card
- ☐ Statement of why there is a need for the proposed future land use map amendment and how the amendment will result in an orderly and logical development pattern; statements how amendment(s) are consistent with Comprehensive Plan; how future land use designation is compatible with future land use designations and existing land uses surrounding the amended lands; identify future land use designations and existing land uses within a ½ mile of the subject property that have the same or greater type of proposed future land use designation; data and analysis to support conclusions.
- ☐ Current Survey
- ☐ Environmental Study
- ☐ Traffic Impact Report
- ☐ *** Capacity Analysis-Separate Form
- ☐ Drainage Analysis
- ☐ Historical Report
- ☐ 1 CD of all documents submitted in PDF
- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Corner of Graham Rd. and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83
4. Existing Future Land Use Designation: RU - Residential Urban, St.Lucie County FLU
5. Existing Zoning Classification: RS-2 - Single Family, St.Lucie County Zoning
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Zoning Atlas Map Ammendment
   Annexation has already been applied for
8. Describe the existing uses, improvements and structures on the amendment lands:
   Currently a vacant site being used for agricultural cow grazing, proposing to develop into an RV storage site.
9. Are there any identified or possible historical structures on the amendment lands? No
10. The reason for making this request: Currently the site is Zoned RS2 with a Future Land Use of RU and is part of St.Lucie County. It is being annexed into the City.
11. **Capacity Analysis:**

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Residential	Single Family Residential	SLC - RS-2, Single Family, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC - RS-2, Single Family, 2 DU/AC
East	Commercial	Commericial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURAL RESIDENTIAL, 1 DU/AC

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current	RU - Residential Urban	RS-2 Single Family	2 DU/AC	17.83	X
Proposed	GC	C-3	466,005 SF	17.83	N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 58.251
Change in Demand	**Total gallons per day** 49,151

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 46,601
Change in Demand	**Total gallons per day** 37,501

C. Parks and Recreation (Residential Classifications Only): N/A
(Du x 2.6 = persons + 44,227 = population /LOS)

Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people	0		
Urban District	5 acres per 1,000 people	0		
Community	2.5 acres per 1,000 people	0		
Neighborhood	1.36 acres per 1,000 people	0		

D. Public Schools (Residential Classifications Only): N/A
Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High)

	K-8	High
School Name		
City		
Distance		
Current Zoning Enrollment Demand		
Proposed Zoning Enrollment Demand		
Change in Demand		

E. Solid Waste:
2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units

Demand Analysis	Maximum
Current Zoning	6 yards
Proposed Zoning	4 yards
Change in Demand	-2 yards

F. Stormwater: Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)	
Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

G. Transportation Analysis: Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
Change in Demand	Trips -240	Trips -30
Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

15. Applicant Acknowledgements (Owner's signature must be notarized)

I certify that: (Check One)

☐ I (we) do hereby certify that I (we) own in fee simple the above referenced described property for which a change in Zoning Classification is requested.

☑ I (we) are not the owner of the above described property; however, the owners signature below authorizes the applicants the authority to act as agent for the owner(s) of record.

Applicant's Signature Date

715 5th Avenue, SW, Suite 1700
Address State Calgary AB T2P 2X6 Zip

403-973-4882 blokhorst@macritchie.biz
Phone Fax E-mail Address

16. Property Owners Acknowledgements: - This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application for a change in zoning classification. The property owner's signature(s) below shall also authorize the Applicant (if other than the property owner) and/or Agent to act in his/her behalf for the purposes of seeking this change to the City' Land Development Regulations for the property described herein.

954-214-4553
Property Owner's Name (Please Print) Phone

547 Wash Roberts Lane TN 37110
Address State Zip

James A Wynne
Property Owner's Signature Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A Wynne who is personally known to me or has produced in person as identification.

Sheila Butcher
Signature of Notary (seal)

SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7.27.21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

Application for Zoning Atlas Map Amendment

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (16) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

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- ☐ Environmental Study
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- ☐ *** Capacity Analysis-Separate Form
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- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Croner of Graham Rd and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83 Acres
4. Existing Future Land Use Designation: RU - Residential Urban
5. Existing Zoning Classification: RS-2 - Single Family, 2du/ac
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Future Land Use Amend

8. Describe the existing uses, improvements and structures on the amendment lands: Currently a vacant site, proposing to develop into an RV Storage site.

9. Are there any identified or possible historical structures on the amendment lands? No

10. The reason for making this request: Currently the site is Zoned RS-2 with a Future Land Use of RU and is partof St.Lucie County. It is being annexed into the City.

11. CAPACITY ANALYSIS

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Res	Single Family Residential	SLC - RS-2, SINGLE FAMILY, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC- RS-2, SINGLE FAMILY, 2 DU/AC
East	Commercial	Commercial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURE RESIDENTIAL, 1 DU/AC

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Proposed	GC	C-3	466,005 SF	17.83	N/A

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Community	2.5 acres per 1,000 people			
Neighborhood	1.36 acres per 1,000 people			

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Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High) N/A

	K-8	High
School Name		
City		
Distance		
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Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

III. Transportation Analysis

G. Traffic Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
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Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

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I certify that: (Check One)

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Applicant's Signature Date

715 5th Avenue, SW, Suite 1700		Calgary AB T2P 2X6
Address		State Zip
403-973-4882		blokhorst@macritchie.biz
Phone	Fax	E-mail Address

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	954-214-4553	
Property Owner's Name (Please Print)	Phone	
547 Wash Roberts Lane	TN	37110
Address	State	Zip
James A Wynne III		
Property Owner's Signature		Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A. Wynne who is personally known to me or has produced in person as ide

Sheila Butcher
Signature of Notary

(seal) SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7-27-21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

Stanaro & Hurrell
Box 34

JOANNE HOLMAN, CLERK OF THE CIRCUIT COURT - SAINT LUCIE COUNTY
File Number: 2294957 OR BOOK 1828 PAGE 2810
Recorded:10/24/03 16:00

* Doc Assump: $ 0.00
* Doc Tax : $ 12,250.70
* Int Tax : $ 0.00

Prepared by and return to:
Chester B. Griffin, Esquire
Neill Griffin Fowler Tierney Neill & Marquis - Chartered
Post Office Box 1270
Fort Pierce, Florida 34954
Courthouse Box #50
Parcel ID Number: 2324-122-0001-0003 ; 2313-432-0000-000/4
2324-121-0000-000/3 [Space Above for Recording]

WARRANTY DEED

This Warranty Deed made this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL**, hereinafter called the grantor, to **R. V. DEVELOPMENT, LLC, a Florida limited liability corporation**, hereinafter called the grantee, whose address is: **2560 SE 12th Street, Pompano Beach, Florida 33062.**

Wherever used herein, the terms "grantor" and "grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.

WITNESSETH: That the said grantor, for and in consideration of the sum of $10.00, in hand paid by the said grantee, the receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the said grantee, and the grantee's heirs and assigns forever, the following described land, situated, lying, and being in St. Lucie County, Florida, to wit:

SEE EXHIBIT "A" ATTACHED HERETO

THE PROPERTY BEING CONVEYED HEREIN DOES NOT CONSTITUTE THE HOMESTEAD PROPERTY OF ANY OF THE GRANTORS.

Subject to restrictions, reservations and easements of record, if any, and taxes subsequent to 2002.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2002; zoning ordinances and rights of way for public roads.

In Witness Whereof, the Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in our presence:

Susan G. Spee
Print Name of Witness: Susan G. Spee
Witness as to Both

Marcia L Heffelfinger
Print Name of Witness: MARCIA L. HEFFELFINGER
Witness as to Both

CHESTER B. GRIFFIN

RICHARD V. NEILL

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing was acknowledged before me this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL,** [✓] who are personally known to me or [ ] who produced their drivers license as identification.

MARCIA L. HEFFELFINGER
MY COMMISSION # CC 905632
EXPIRES: April 15, 2004
Bonded Thru Notary Public Underwriters

Marcia L. Heffelfinger
Print Name of Notary: MARCIA L. HEFFELFINGER
NOTARY PUBLIC - STATE OF FLORIDA
MY COMMISSION EXPIRES:

Exhibit "A"

That portion of theWest 1/2 of the SW 1/4 of the SE 1/4, lying West of the Westerly right of way line of I-95, of Section 13, Township 35 South, Range 39 East,lying and being in St. Lucie County, Florida, less and except road rights of way for I-95; Graham Road; Copenhaver Road and less canal rights of way for NSLRDD Canal No. 37 on South line.

AND

The West 3/4 of the North Half of the Northwest Quarter of the Northeast Quarter, Less road and canal rights of way for I-95; White Road, AND ALSO, the Southwest Quarter of the Northwest Quarter of the Northeast Quarter, Less road rights of way for I-95 and Less the South 125 feet of the West 375 feet thereof, all lying and being in Section 24, Township 35 South, Range 39 East, St. Lucie County, Florida.

Kimley»Horn

April 6, 2021

Jennifer Hofmeister, ACIP
Planning Director
City of Ft. Pierce
100 N. U.S. Highway 1
Ft. Pierce, FL 34950
772-467-3737

RE: Ft. Pierce RV Storage- 2192 Copenhaver Road

Dear Ms. Hofmeister,

We are proposing a Future Land Use Map Amendment and Zoning Atlas Map Amendment for parcel # 2313-432-0000-000-4 at 2192 Copenhaver Road. Currently the property is part of unincorporated St. Lucie County and is being annexed into the City of Ft. Pierce. The property has a current zoning of Rs-2 with a future land use of Residential Urban. We are proposing a zoning classification of C-3 with a future land use of General Commercial (GC). The current zoning allows for two(2) units per acre. The property is bordered by I-95 to the east and Graham Road to the North.

The Comprehensive Plan's goal for a General Commercial (GC) future land use is for commercial developments with higher intensity to be fronting major roadway corridors. The property's location along I-95 meets this goal and matches the intensity of the recently constructed Gander RV project east of I-95 that is less than 0.5 miles away.

The change of zoning and future land use will have less of a traffic impact than the existing single-family zoning. It will result in a reduction of 240 daily trips and 30 peak PM trips on the surrounding roadways. The change from residential to commercial will also reduce the demand on the parks and recreation, the public schools, and the solid waste demand. The only proposed increase in demand will be for water and wastewater. However, that is based off the maximum allowable square footage of the rezoning and future land use. Based off the submitted site plan the demand on the water and wastewater will be minimal. A storage facility will have less impact on water and wastewater than single-family homes.

The proposed zoning change from RS-2 to C-3 and the future land use change from Residential Urban to General Commercial meets the Comprehensive Plan's goal of commercial development along the I-95 corridor. The proposed RV Storage site will also have less demand for traffic, parks and recreation, public schools, solid waste, and water/wastewater than the existing single-family classification.

Should you have any additional questions please do not hesitate to contact me at (772) 794-4061 or Blaine.Bergstresser@kimley-horn.com.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Blaine Bergstresser P.E

ALTA/NSPS LAND TITLE SURVEY

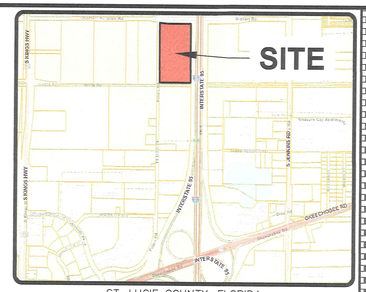
FOR: R.V. DEVELOPMENT, LLC

SURVEYORS NOTES AND REPORT:

1. REPRODUCTIONS OF THIS MAP ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. THIS SURVEY CANNOT BE TRANSFERRED OR ASSIGNED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF ENGINEERING, DESIGN AND CONSTRUCTION, INC. IT IS A VIOLATION OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, TO ALTER THIS SURVEY WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF THE SURVEYOR. ADDITIONS AND/OR DELETIONS MADE TO THE FACE OF THIS SURVEY WILL MAKE THIS SURVEY INVALID.
2. THE LAST DATE OF FIELD WORK WAS JANUARY 5, 2021.
3. SITE ADDRESS: 2192 COPENHAVER ROAD, FORT PIERCE, FLORIDA.
4. CURRENT DESCRIPTION(S) SHOWN HEREON PROVIDED BY: THE CLIENT. ALL MATTERS OF RECORD SHOWN HEREON ARE SHOWN IN REFERENCE TO TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER 2140–2672737, DATED DECEMBER 4, 2020.
5. PARCELS CONTAIN A TOTAL OF 17.45 ACRES ACRES, MORE OR LESS.
6. THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (61G17–6 F.A.C.), IS "RESIDENTIAL." THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 10,000 FEET. THIS SURVEY EXCEEDS THE REQUIRED DISTANCE ACCURACY.
7. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON NGS CONTROL MONUMENT DESIGNATED 195 F 14, HAVING A PUBLISHED ELEVATION OF 46.99 FEET.
8. THIS BOUNDARY SURVEY HAS BEEN REFERENCED TO THE FLORIDA STATE PLANE BOUNDARY SYSTEM–EAST ZONE, NAD 83 (1990).
9. SUB–SURFACE IMPROVEMENTS INCLUDING UNDERGROUND UTILITIES, UTILITY SERVICES, WERE NOT LOCATED AS PART OF THIS SURVEY.
10. REVISIONS SHOWN HEREON DO NOT REPRESENT A "FIELD SURVEY UPDATE" UNLESS OTHERWISE NOTED.
11. BEARINGS SHOWN HERON ARE BASED UPON THE WEST LINE OF THE NORTHEAST 1/4 OF SECTION 24, ST. LUCIE COUNTY, FLORIDA PER THE LINE LABELED HEREON AS (BEARING BASIS) AND ALL OTHER BEARINGS ARE RELATIVE THERETO. DISTANCES ARE IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF.
12. IN SOME INSTANCES, GRAPHIC REPRESENTATIONS AND SYMBOLS SHOWN HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE THE RELATIONSHIP BETWEEN PHYSICAL IMPROVEMENTS AND/OR LOT LINES. THE DIMENSIONS SHOWN SHALL CONTROL THE LOCATION OF THE IMPROVEMENTS, OVER THE SCALED POSITIONS.
13. THE OWNERSHIP OF PERIMETER FENCES, WALLS, HEDGES AND LANDSCAPING, IF ANY, SHOWN HEREON ARE NOT KNOWN AND ARE NOT LISTED AS ENCROACHMENTS. THEIR RELATIVE LOCATION IS SHOWN IN RELATION TO THE BOUNDARY LINES SHOWN.
14. THE SURVEY MAP SHOWN HEREON DOES NOT NECESSARILY CONTAIN ALL OF THE INFORMATION OBTAINED OR DEVELOPED BY THE UNDERSIGNED SURVEYOR IN HIS FIELD WORK, OFFICE WORK OR RESEARCH.
15. THE PROPERTY WHICH IS THE SUBJECT OF THIS SURVEY APPEARS TO BE SITUATE IN AN AREA OF MINIMAL FLOOD HAZARD AT THIS TIME PURSUANT TO F.E.M.A. FIRM NUMBER 12111C0167J, HAVING AN EFFECTIVE DATE OF FEBRUARY 16, 2012. FOR APPROXIMATE DELINEATION OF THE FLOOD ZONE LIMITS, REFER TO AFOREMENTIONED FIRM PANELS.
16. AT THE LOCATION SHOWN AS THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF THE SECTION HAS EVIDENCE OF PREVIOUS CONTROL/OCCUPATION. A #5 IRON ROD HAS BEEN RESET IN IT'S PLACE.

SYMBOL & ABBREVIATION LEGEND:

Ⓐ	AIR RELEASE VALVE		CONCRETE SIGNAL LIGHT POLE	FIBER RISER	FIBER OPTIC RISER	IP	IRON PIPE	No.	NUMBER	RWV	RECLAIMED WATER VALVE	TOB	TOP OF BANK/BERM
AL	ARC LENGTH	CMP	CORRUGATED METAL PIPE	(M)	FIELD MEASURED	IR	IRON ROD	O.R.B.	OFFICIAL RECORDS BOOK	RLS	REGISTERED LAND SURVEYOR	T.O.N.	TOP OF NUT
ASPH	ASPHALT		CURB INLET	F.F.E.	FINISHED FLOOR ELEVATION	IR/C	IRON ROD AND CAP	OHW	OVER HEAD WIRES		REINFORCED CONCRETE PIPE	X 0.0	TOPOGRAPHIC DATA (SOFT SURFACE)
BFP	BACK FLOW PREVENTER		DECORATIVE LIGHT POST	FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION		IRRIGATION CONTROL VALVE	PG	PAGE	RCP	RIGHT–OF–WAY	X 0.00	TOPOGRAPHIC DATA (HARD SURFACE)
	BENCHMARK (BM)	(D)	DEED	FPL	FLORIDA POWER AND LIGHT	L	LENGTH	PCN	PARCEL CONTROL NUMBER	R/W	ROD AND CAP	TWNSHP	TOWNSHIP
	BIKE RACK	D.B.	DEED BOOK	FT	FOOT		LIGHT POST	PK NAIL	PARKER–KALON NAIL	R/C	SANITARY MANHOLE	T	TRAFFIC HANDHOLD
CATV	CABLE RISER	ø	DIAMETER (DIA.)	FM	FORCE MAIN	MAG/D	MAG NAIL MAG BRAND NAIL	PK/D	PARKER–KALON NAIL & DISK	S	SANITARY VALVE	TSCB	TRAFFIC SIGNAL CONTROL BOX
(C)	CALCULATED	D	DRAINAGE MANHOLE	FND	FOUND	M	MAILBOX	PCP	PERMANENT CONTROL POINT	SV	SECTION	TYP	TYPICAL
	CATCH BASIN	DIP	DUCTILE IRON PIPE	F	FPL MANHOLE	M.C.	MARTIN COUNTY	PRM	PERMANENT REFERENCE MONUMENT	SEC	PROPERTY CORNER	UNK	UNKNOWN
℄	CENTERLINE	E	EAST/EASTING	SQ. FT.	SQUARE FEET	MHWL	MEAN HIGH WATER LINE	P.B.	PLAT BOOK		RIGHT–OF–WAY CONTROL	RISER	UNKNOWN HANDHOLD
CCR	CERTIFIED CORNER RECORD	EOW	EDGE OF WATER	GAS	GAS VALVE	MLWL	MEAN LOWER WATER LINE	PLAT	PLAT DATA		SIGN	BOX	UNKNOWN RISER BOX
CLF	CHAIN LINK FENCE	EB	ELECTRIC BOX	GIS	GEOGRAPHIC INFORMATION SYSTEMS		METAL LIGHT POST	P.O.B.	POINT OF BEGINNING	S	SOUTH	U	UNKNOWN TYPE MANHOLE
CHD.	CHORD	EHH	ELECTRIC HAND HOLE (EHH)	GND	GROUND	MP	METAL PIPE	P.O.C.	POINT OF COMMENCEMENT		SPIGOT	VCP	VITRIFIED CLAY PIPE
CO	CLEAN OUT	EM	ELECTRIC METER		GROUND LIGHT	MON	MONITORING WELL	P.C.C.	POINT OF COMPOUND CURVE		SPRINKLER VALVE	WM	WATER METER
COMM RISER	COMMUNICATION RISER	ELEC PANEL	ELECTRICAL PANEL		GUY WIRE ANCHOR	NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929	P.C.	POINT OF CURVATURE	S.L.C.	ST. LUCIE COUNTY	W	WATER METER SERVICE METER (WM)
CONC	CONCRETE	EL./ELEV.	ELEVATION		HANDICAP			P.T.	POINT OF TANGENCY	STA	STATION	WV	WATER VALVE (WV)
	CONCRETE LIGHT POST	FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	HDPE	HIGH DENSITY POLYETHYLENE PIPE	N/D	NON DESCRIPT NAIL AND DISK	P.O.T.	POINT OF TERMINUS		STORMWATER DRAINAGE MANHOLE		
CM	CONCRETE MONUMENT	F.O.	FIBER OPTIC	HWF	HOG WIRE FENCE	N.R.	NON RADIAL	PVC	POLYVINYL CHLORIDE		STREET SIGN	W	WEST
CPP	CONCRETE POWER POLE (CPP)	FOHH	FIBER OPTIC HAND HOLE		HYDRANT	NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988	PSL	PORT SAINT LUCIE, FLORIDA			WF	WOOD FENCE
	CONCRETE POWER POLE W/STREET LIGHT		FIBER OPTIC MARKER	IN	INCH	N	NORTH OR NORTHING	PLS	PROFESSIONAL LAND SURVEYOR	R	RADIUS		WOOD POLE STREET LIGHT
				INV	INVERT			R	RADIUS	RGE	RANGE		WOOD POWER POLE
								RTK	REAL TIME KINEMATIC	TELE RISER	TELEPHONE RISER BOX		
										TOE	TOE OF SLOPE		



ST. LUCIE COUNTY, FLORIDA

VICINITY MAP

NO SCALE

Zoning District		Maximum Gross Density (Du/Ac)	Minimum Lot Size (sf)	Minimum Lot Width	Minimum Road Frontage	Minimum Yard				Max. Hht.	Max. Lot Coverage by Buildings
						Front	Rear	Side	Side @ corner		
RS–2	RESIDENTIAL, SINGLE–FAMILY – 2	2.00	15,000	100.00	30.00	25(I)	15(g)(I)	10(I)	20(I)	35.00	20%

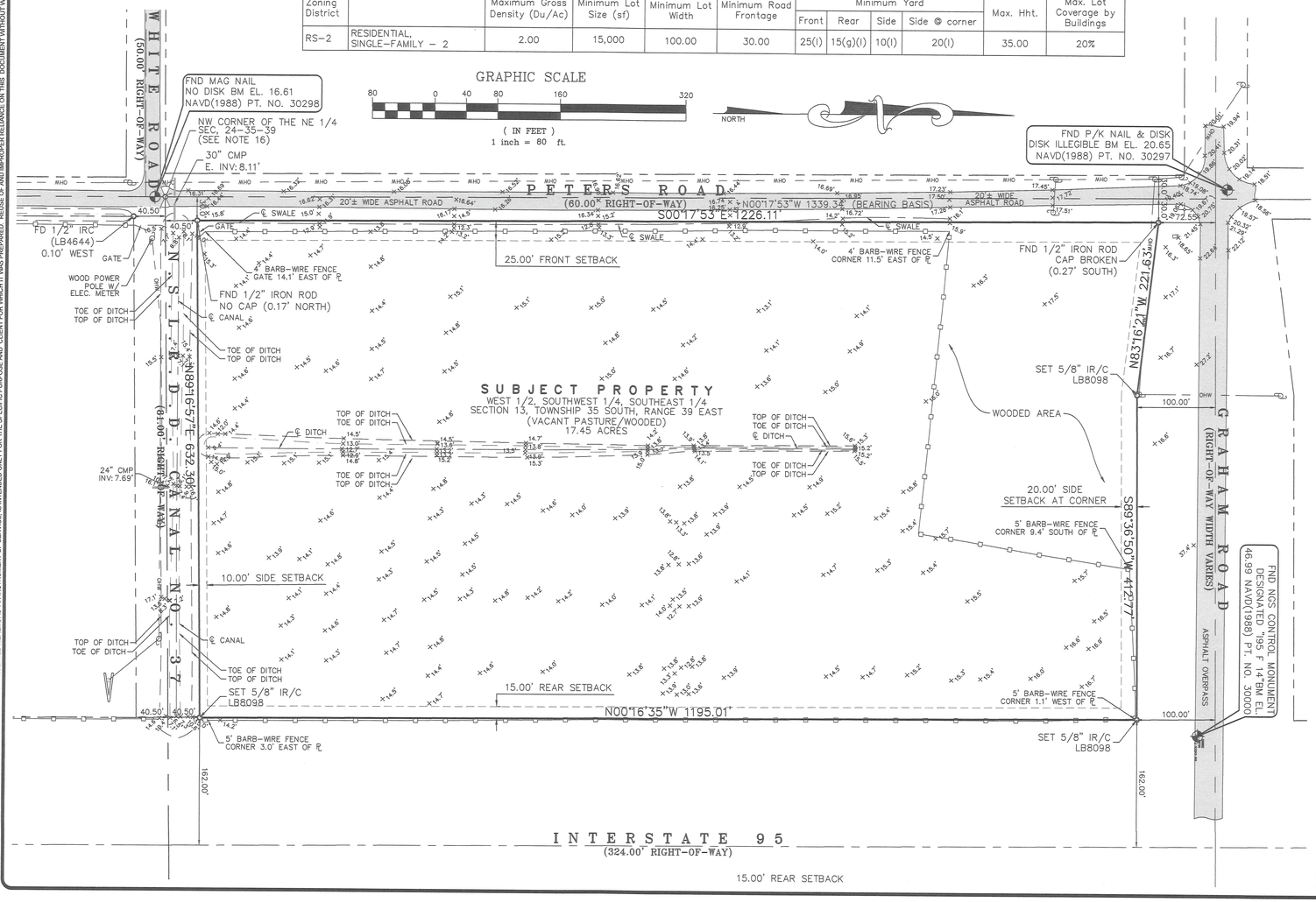
GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)

1 inch = 80 ft.

NORTH



LEGAL DESCRIPTION:

THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4, LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I–95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I–95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE.

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

SCHEDULE B–II ITEMS

TITLE COMMITMENT PREPARED BY
FIRST AMERICAN TITLE INSURANCE COMPANY
COMMITMENT # 2140–2672737
COMMITMENT DATE: DECEMBER 4, 2020, AT 8:00 AM

1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
2. ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
   SHOWN HEREON.
4. ANY LIEN, FOR SERVICES, LABOR, OR MATERIALS IN CONNECTION WITH IMPROVEMENTS, REPAIRS OR RENOVATIONS PROVIDED BEFORE, ON, OR AFTER DATE OF POLICY, NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
5. ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
7. ANY MINERALS OR MINERAL RIGHTS LEASED, GRANTED OR RETAINED BY CURRENT OR PRIOR OWNERS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
8. TAXES AND ASSESSMENTS FOR THE YEAR 2021 AND SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
9. EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY RECORDED IN BOOK 452, PAGE 1600 AND IN BOOK 680, PAGE 1696.
   EASEMENTS DO NOT AFFECT SUBJECT PROPERTY.
10. NOTICE OF CONSENT ORDER RECORDED IN BOOK 3738, PAGE 2484.
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
11. TERMS AND CONDITIONS OF ANY EXISTING UNRECORDED LEASE(S), AND ALL RIGHTS OF LESSEE(S) AND ANY PARTIES CLAIMING THROUGH THE LESSEE(S) UNDER THE LEASE(S).
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
12. ANY MAP OR DIAGRAM NOW OR PREVIOUSLY PROVIDED IS FOR REFERENCE AND INFORMATIONAL PURPOSES ONLY. THE COMPANY AND ITS AGENTS EXPRESSLY DISCLAIM ANY LIABILITY FOR ALLEGED LOSS OR DAMAGE WHICH MAY RESULT FROM RELIANCE UPON SUCH MAP(S) OR DIAGRAM(S). THE FOREGOING DOES NOT LIMIT ANY EXPRESS COVERAGES PROVIDED BY THE TERMS AND PROVISIONS OF ANY TITLE INSURANCE POLICY FOR MATTERS WHICH MIGHT BE REVEALED BY A SURVEY PREPARED AND CERTIFIED IN ACCORD WITH FLORIDA STATUTES SECTION 472.027.
    NOT A SURVEY MATTER.

ALTA CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 3, 4, 8, 11, 13, 14, 15, 16, & 19 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JANUARY 5, 2021.

MICHAEL T. OWEN License Number 5556 STATE OF FLORIDA Professional Surveyor and Mapper

MICHAEL T. OWEN PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION #5556

SIGNATURE DATE: 8-27-21

ENGINEERS ⊘ SURVEYORS ENVIRONMENTAL
10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455
www.edc-inc.com
F.B.P.E. CERTIFICATE OF AUTHORIZATION 9935
L.B. CERTIFICATE OF AUTHORIZATION 8098

DATE	REVISION COMMENTS

SPT DRAWN BY
MTO CHECKED BY
RH FIELD CREW
20-426 ALTA.dwg FILENAME
LAYOUT1 LAYOUT
AS SHOWN SCALE
December 23, 2020 DATE

ALTA/NSPS LAND TITLE SURVEY

FOR: R.V. DEVELOPMENT

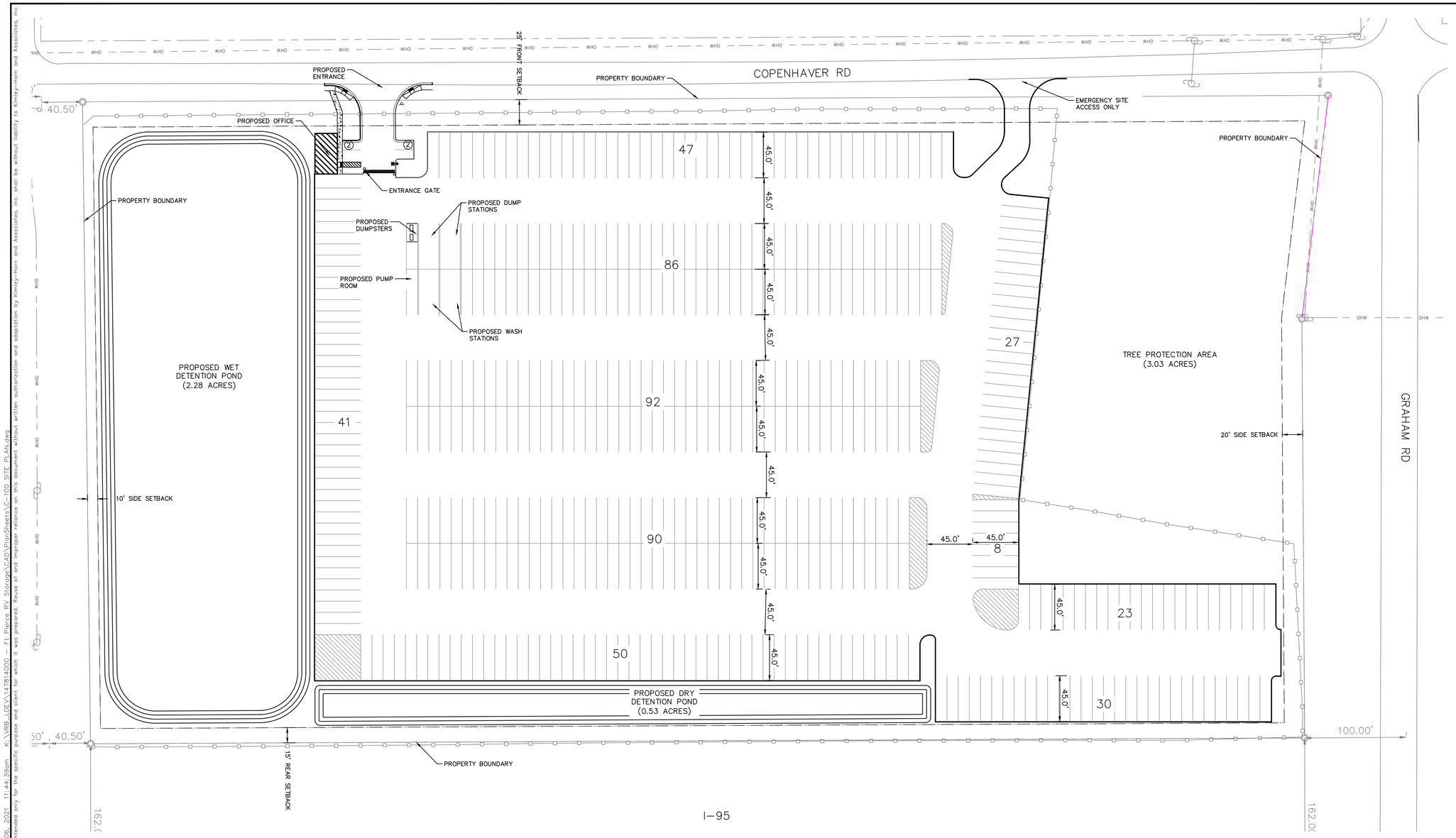
THE W. 1/2 OF THE S.E. 1/4 OF THE S.W. 1/4 OF SEC. 13, TWNSHP. 35 SOUTH, RGE. 39 EAST
ST. LUCIE COUNTY, FLORIDA

10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455

20-426

1 OF 1

Z:\EDC\2020\20-426 - MacRitchie - 2192 Copenhaver Rd FT&S\RVDWG\Dwg - PDP\Survey\20-426 ALTA.dwg, 1/8/2021 9:25 AM
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DEVELOPMENT DATA			
TAX PARCEL ID NO.	2313-432-0000-000-4		
ADDRESS	2192 COPENHAVER ROAD, FORT PIERCE, FL		
PROJECT USE	RV STORAGE FACILITY		
PROJECT ZONING	C-3		
RV SPACES PROPOSED	494 SPACES		
STANDARD SPACES PROPOSED	3 SPACES		
ACCESSIBLE SPACES PROPOSED	1 SPACE		
TOTAL AREA OF TRACT	760,033 SF	17.45 AC	100%
AREA OF PROPOSED BUILDINGS	880 SF	0.02 AC	0.12%
AREA OF PROPOSED PAVEMENT	414,267 SF	9.51 AC	54.51%
TOTAL PROPOSED IMPERVIOUS AREA	572,597 SF	12.34 AC	70.72%
AREA OF PROPOSED OPEN SPACE	222,374 SF	5.11 AC	29.26%
AREA OF PROPOSED POND	122,404 SF	2.81 AC	16.11%
OPEN SPACE REQUIRED	145,133 SF	3.33 AC	15%

OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

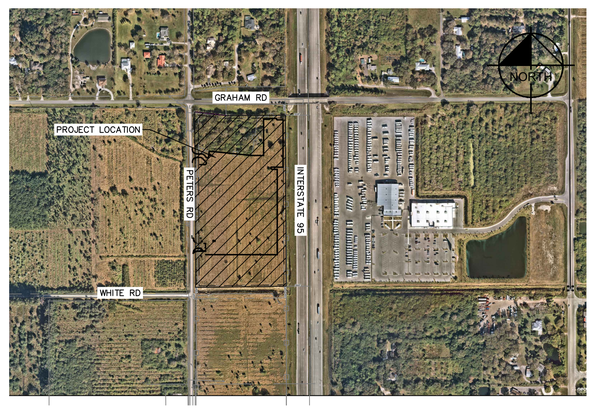
CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

VERTICAL DATUM
THE ELEVATIONS SHOWN HERON ARE BASED ON THE NORTH AMERICAN DATUM OF 1988.

GENERAL NOTES:

1. HAZARDOUS WASTE DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS
2. ALL LANDSCAPE AREAS ABUTTING VEHICULAR USE AREAS SHALL BE CURBED OR PROTECTED BY CURB STOPS.
3. ALL BUILDING, PARKING AND ACCESS AREAS SHALL DOCUMENT COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT PRIOR TO THE ISSUANCE OF BUILDING PERMIT.
4. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN THE PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
5. LANDSCAPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 153 OF THE LANDSCAPE CODE OF THE CITY OF PORT ST. LUCIE.
6. NO LANDSCAPING OTHER THAN GRASSES SHALL BE LOCATED WITHIN 10' OF A CITY UTILITY LINE OR APPURTENANCE. ALL OTHER UTILITIES SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM CITY UTILITY MAINS FOR PARALLEL INSTALLATIONS AND A MINIMUM 18" BELOW CITY MAINS. (ALL MEASUREMENTS ARE TAKEN FROM OUTSIDE TO OUTSIDE)
7. NO LANDSCAPING SHALL BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY EXISTING UTILITY.
8. THIS APPLICATION IS NOT VESTED FOR ANY MUNICIPAL FEES. ALL FEES ARE CALCULATED AT TIME OF PAYMENT. THIS INCLUDES SPECIFICALLY IMPACT FEES, UPLAND PRESERVE FEES AND ANY ADMINISTRATIVE REVIEW FEES FOR CITY DEPARTMENTS. NO FEES ARE VESTED BASED ON DATE OF CITY COUNCIL APPROVAL.
9. SIGNS ARE NOT PART OF THIS REVIEW AND SHALL BE PERMITTED SEPARATELY FROM THE APPLICATION. (SEE CHAPTER 155 (SIGN CODE) CITY OF PORT ST. LUCIE LAND DEVELOPMENT REGULATIONS.)
10. THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITH IN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G)
11. FENCE POSTS SHOULD AVOID UTILITY SERVICE LINES AT ALL TIMES.
12. UTILITY SERVICES CAN BE CONNECTED ONLY AFTER THE MAINS ARE INSTALLED AND TURNED OVER TO THE CITY.

BUILDING SETBACKS	
	SETBACK
NORTH	20 FT
SOUTH	10 FT
EAST	15 FT
WEST	25 FT



LOCATION MAP
SCALE: 1"=1000'

No.	REVISIONS	DATE	BY

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BLAINE BERGSTRESSER, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

LICENSED PROFESSIONAL ENGINEER ROBERT BLAINE BERGSTRESSER LICENSE No. 84566 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 10/1/2021

KHA PROJECT 147814000
DATE 04/06/2021
SCALE AS SHOWN
DESIGNED BY BRB
DRAWN BY TJE
CHECKED BY BRB

SITE PLAN

FORT PIERCE RV STORAGE

FT. PIERCE, FL

SHEET NUMBER
C-100

Posted By:Enright, Tyler Sheet Set:FT PIERCE RV STORAGE Layout:C-100 SITE PLAN April 06, 2021 11:44:39am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\PlanSheets\C-100 SITE PLAN.dwg
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Natural Resource Assessment

RV Storage Ft. Pierce

St. Lucie County, Florida

Prepared for:
Macritchie Storage Ventures, LLC
715 5th Avenue, SW, Suite 1700
Calgary AB T2P 2X6, Canada

147814000
March 2021
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445 24th Street, Suite 200
Vero Beach, FL 32960

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APPENDIX D – SHPO FLORIDA MASTER SITE FILE REPORT

Natural Resource Assessment
Technical Memorandum

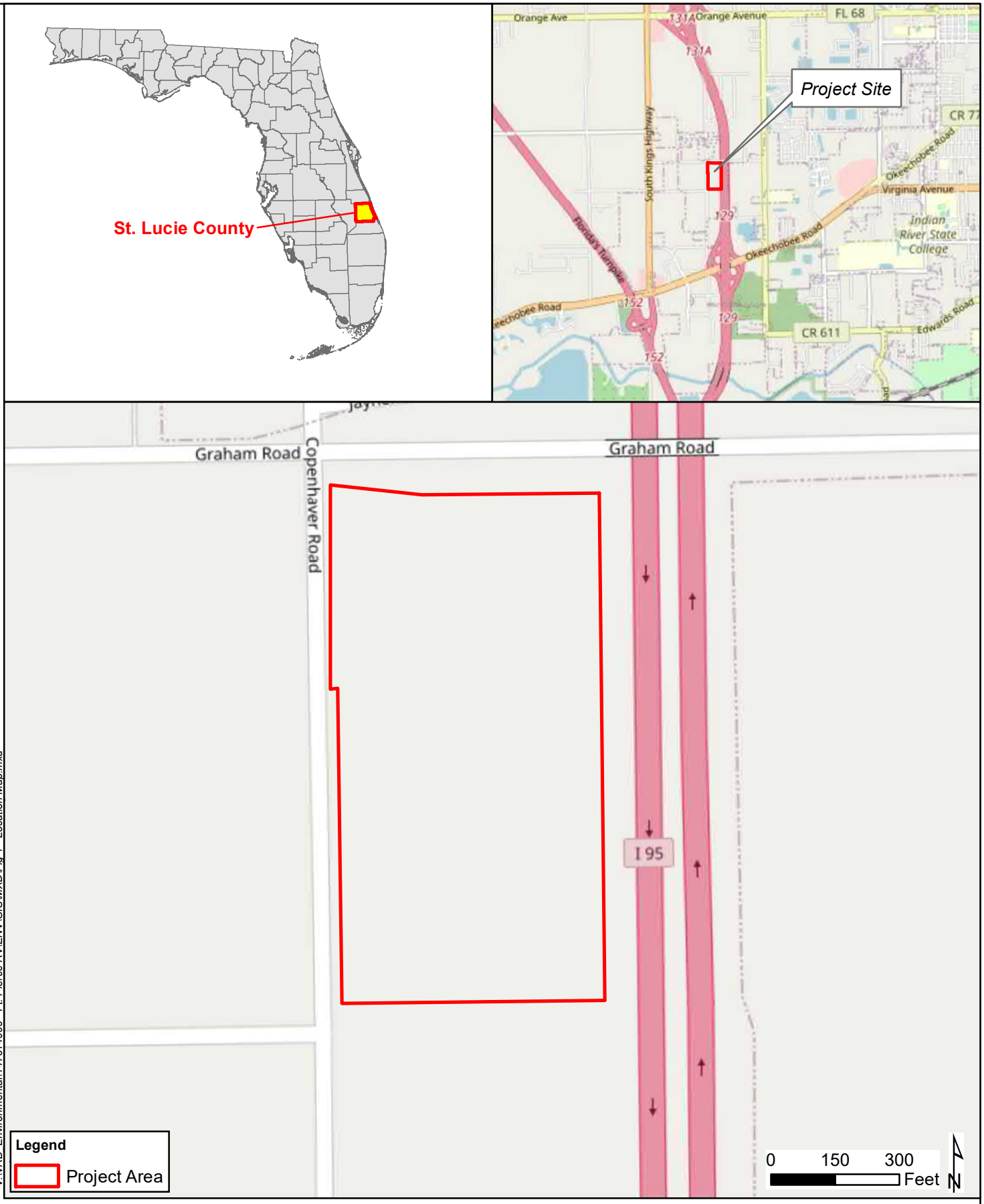
RV Storage Ft. Pierce
St. Lucie County, Florida

1.0 INTRODUCTION

The following technical memorandum summarizes a review of readily available documentation and the results of field reconnaissance conducted at the project site. The purpose of this Natural Resource Assessment was to characterize the existing conditions of the above-referenced project site relative to threatened and endangered species and their habitat, ecological communities, land cover and vegetation, wetlands, soils, hydrology, archaeological and historical resources, and floodplains.

The scope of this assessment included field reconnaissance to determine habitat present and to determine environmental regulatory constraints for this project site.

The project site is approximately 17 acres and is located in Fort Pierce, near the southeast corner of Graham Road and Copenhaver Road in Section 13, Township 35 South, Range 39 East, St. Lucie County, Florida. A location map is attached as ***Figure 1***. A portion of the U.S. Geological Service (USGS) 7.5-Minute Providence, Florida quadrangle map depicting the location of the project site is attached as ***Figure 2***. Based on review of the USGS quadrangle map, elevations on the project site are approximately 10 feet.



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 1 - Location Map.mxd

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Project Location Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 300 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 1



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 2 - USGS Map.mxd

Source: ESRI, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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USGS 7.5 Minute Quadrangle Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 1,000 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 2

2.0 METHODOLOGY

The methodology for this assessment included a review of the following resources:

- Florida Natural Areas Inventory (FNAI) Biodiversity Matrix (http://www.fnai.org/biointro.cfm)
- Various Geographic Information System (GIS) data layers from the U.S. Fish and Wildlife Service (USFWS), U.S. Geological Survey (USGS), Florida Fish and Wildlife Conservation Commission (FWC) [(https://public.myfwc.com/FWRI/EagleNests/nestlocator.aspx)]
- USFWS IPaC data [(https://ecos.fws.gov/ipac/)]
- U.S. Department of Agriculture (USDA)/Natural Resources Conservation Service (NRCS) Soil Survey of St. Lucie County, Florida (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)
- State Historic Preservation Officer (SHPO), Florida Master Site File (http://www.flheritage.com/)
- USFWS National Wetlands Inventory (NWI) Maps (Web-based maps available from http://www.fws.gov/wetlands/Data/mapper.html)
- Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (FIRM; Web-based maps available from http://msc.fema.gov/)
- United States Geological Survey (USGS) Quadrangle Maps, Land Boundary Information System (LABINS; http://www.labins.org)
- South Florida Water Management District Interactive GIS Map (SFWMD.gov)
- Florida Department of Environmental Protection (FDEP) MapDirect GIS (https://floridadep.gov)
- St. Lucie County Land Development Code

On March 10, 2021 a field review of the project limits was conducted by environmental scientists to document the existing habitat conditions and determine potential wildlife utilization. The field review also included a 15% gopher tortoise survey.

3.0 EXISTING CONDITIONS

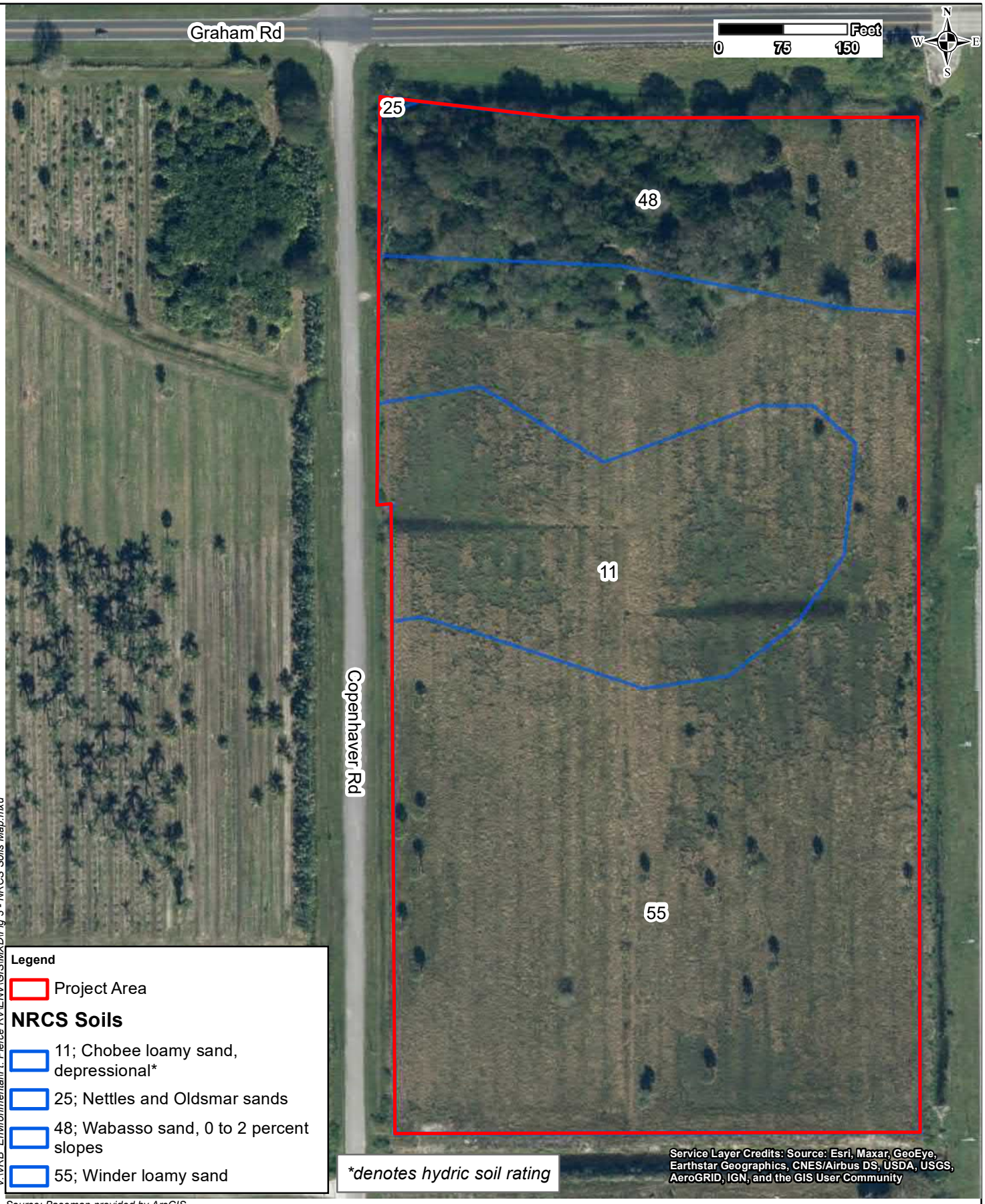
3.1 SOILS

The USDA/NRCS *Soil Survey of St. Lucie County, Florida,* maps the following soil on the property: (11) Chobee Loamy Sand, (25) Nettles and Oldsmar Sands, (48) Wabasso Sand, and (55) Winder Loamy Sand. A copy of the digital USDA/NRCS soils mapping data is illustrated in ***Figure 3*** and details regarding each soil are provided in ***Table 1***.

Table 1
NRCS Soils Identified Within Study Area

Soil ID Number[1]	Soil Name	Occurrence[2]	Characteristics	Drainage Class	Groundwater Depth	Hydric, Hydric Inclusions, or Non-hydric
11	Chobee Loamy Sand	Depressional areas	Moderately rapid to very slow permeability	Very poorly drained	Above surface to 10 inches	Hydric
25	Nettles and Oldsmar Sands	Broad flats and depressional areas	Very slow to slow	Poorly drained	10-40 inches	Non-hydric
48	Wabasso Sand	Flatwood areas	Rapid to moderately slow permeability	Poorly drained	10-40 inches	Non-hydric
55	Winder Loamy Sand	Depressional areas	Rapid to slow permeability	Poorly drained	10-40 inches	Non-hydric

[1] Reference: https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/florida/FL111/0/lucie.pdf
[2] Reference: https://soilseries.sc.egov.usda.gov/OSD_Docs/A/ANKONA.html



V:\VRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 3 - NRCS Soils Map.mxd

Source: Basemap provided by ArcGIS

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NRCS Soils Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 3

3.2 LAND COVER AND NATURAL COMMUNITIES

Vegetative communities on the project site were identified through pedestrian transects and aerial photograph interpretation. Vegetative communities were classified using the *Florida Land Use, Cover, and Forms Classification System* (FLUCFCS, Florida Department of Transportation, 1999). A FLUCFCS map of the project site is attached as ***Figure 4***. The description of the upland land cover provided below characterizes dominant vegetation observed along random pedestrian transects and does not represent an all-inclusive vegetative inventory.

FLUCFCS 211 – IMPROVED PASTURES

This cover type encompassed approximately 13.25 acres of the project site and was primarily made up of smut grass (*Sporobolus indicus*) with scattered cabbage palm (*Sabal palmetto*), laurel oak (*Quercus laurifolia*), live oak (*Quercus virginiana*), and Brazilian pepper (*Schinus terebinthifolius*).

FLUCFCS 420 – UPLAND HARDWOOD FOREST

This cover type encompassed approximately 2.74 acres of the project site. The canopy was primarily made up of mature live oak and laurel oak, and cabbage palm. The understory included Brazilian pepper, saw palmetto (*Serenoa repens*), lantana (*Lantana camara*), and clover (*Trifolium* spp.).

3.3 WETLANDS, TIDAL WATERS AND OTHER SURFACE WATERS

The presence of wetlands was evaluated based on the Florida unified wetland delineation methodologies in accordance with Chapter 62-340, Florida Administrative Code (FAC) and Chapter 62-331 FAC under the State 404 Program. These methods consider prevalence of wetland vegetation, hydric soil indicators, and wetland hydrology. Surface waters include both natural and manmade bodies of water, such as streams, lakes, ponds, canals, and ditches. Based on initial database review and subsequent assessment of the vegetative communities, hydrologic conditions, and soils observed during on-site reconnaissance, there appears to be approximately 0.96 acres of wetlands and surface waters on-site.

FLUCFCS 510 – STREAMS AND WATERWAYS

This cover type encompassed approximately 0.14 acres of the project site and encompasses a surface water through the central portion of the property, which does not appear to connect to any other waterways. This surface water feature appears to have been historically excavated.

FLUCFCS 643 – WET PRAIRIES

This cover type encompassed approximately 0.82 acres of the project site and was primarily made up of smartweed (*Persicaria setacea*), hydrocotyl (*Hydrocotyle vulgaris*), torpedo grass (*Panicum repens*), jointed spikerush (*Eleocharis interstincta*), pickerel weed (*Pontederia cordata*), beaksedge (*Rhynchospora spp*.), and occasional smut grass.

3.4 WILDLIFE UTILIZATION

Wildlife observed included the mourning dove (*Zenaida macroura*), black vulture (*Coragyps atratus*), great blue heron (*Ardea herodias*), and monarch butterfly (*Danaus plexippus*).

3.5 ENDANGERED, THREATENED, AND SPECIES OF SPECIAL CONCERN

A list of protected species potentially occurring within the project vicinity was generated using the databases described in Section 2.0 Methodology. Information regarding previously documented occurrences, on-site observations conducted as part of this assessment, and likelihood of occurrence is summarized below.

FNAI – The FNAI report includes data from FNAI Matrix Unit 65769 (***Appendix A***). Based on the FNAI report, there are no documented listed species within the vicinity of the site. FNAI lists wood storks (*Mycteria Americana*) as likely to occur within the matrix unit.

FWC – There are no known wading bird colonies on, or within one mile of, the project site. Additionally, no bald eagles (*Haliaeetus leucocephalus*) or evidence of bald eagles were observed on the project site and there are no documented occurrences of bald eagles or their nests within one mile of the project site. No further coordination is anticipated regarding these species.

USFWS Consultation Areas – The project site is in the below-listed USFWS Consultation Areas.

- Audubon's crested caracara
- Florida scrub-jay
- Everglade snail kite
- Grasshopper sparrow

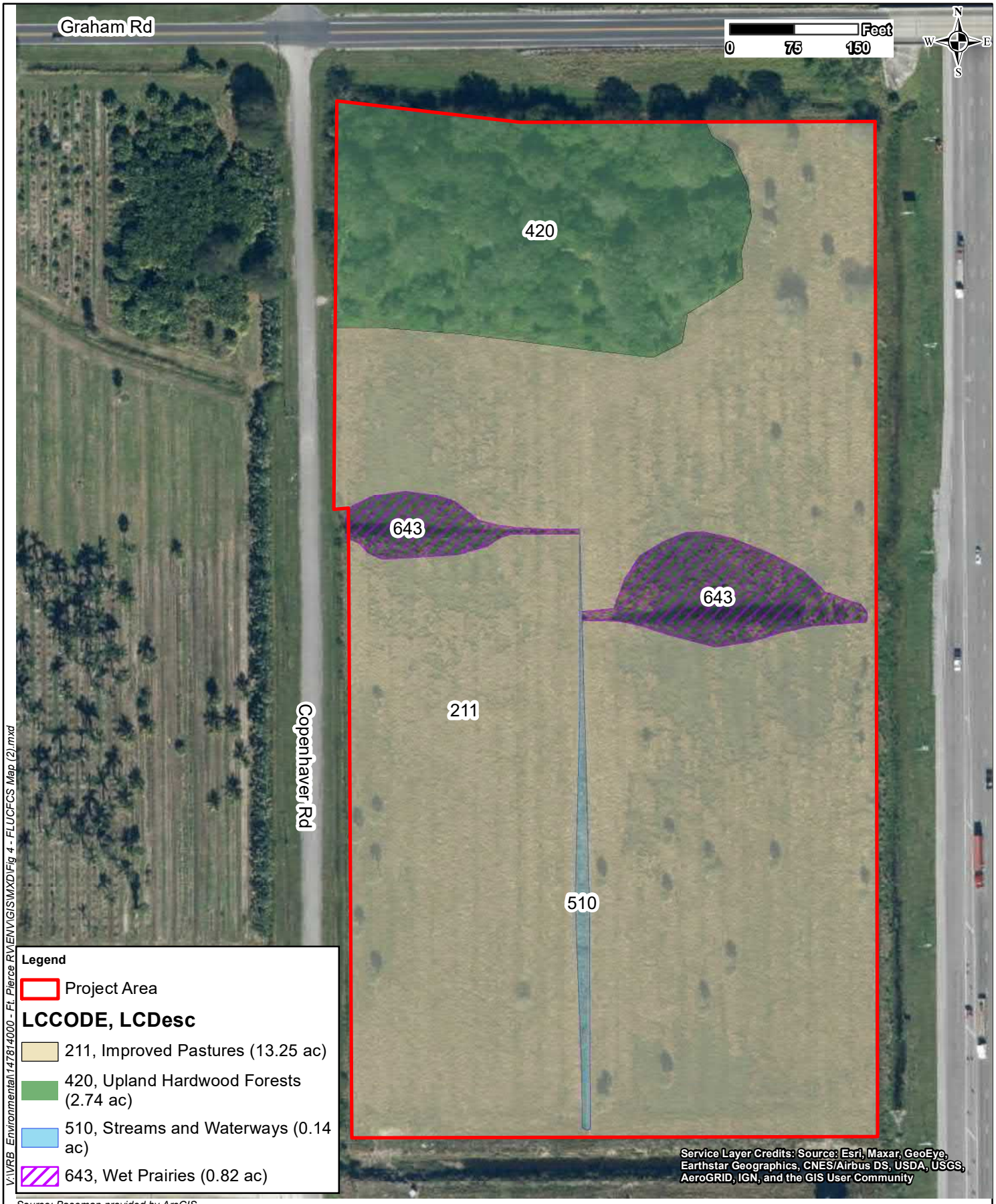
Habitat for the Florida scrub-jay, everglade snail kite, and grasshopper sparrow does not occur on-site, thus, no further coordination regarding these species is anticipated. Suitable habitat for the Audubon's crested caracara is present on-site, and the species is discussed further below.

USFWS Wood Stork Colonies – The project site is within the core foraging area (CFA) of two known wood stork colonies, North Fork St. Lucie River and Cypress Creek Bluefield Road. The CFA for an active wood stork colony is defined as a circular area within an 18.6-mile radius from the wood stork colony. Potential wood stork foraging habitat exists within the wetlands and surface water on-site. More on this is discussed below.

USFWS IPaC Data – The IPaC Trust Resources includes historical data in their reporting, which results in some species findings that do not reflect current on-site conditions. The following species are listed in the data and have suitable habitat within the project site: wood stork and Audubon's crested caracara. Species listed in the data that do not have suitable habitat on-site include: Everglade snail kite, Florida grasshopper sparrow, whooping crane, American alligator, hawksbill sea turtle, leatherback sea turtle, loggerhead sea turtle, Miami blue butterfly, Florida panther, and southeastern beach mouse. This dataset confirmed that the project site is not within any USFWS designated Critical Habitat (***Appendix A***).

Based on field reconnaissance and database reviews, a list of state and federally listed species potentially occurring on, or within the immediate vicinity of, the project site has been compiled. ***Table 2*** lists species that may occur and their likelihood of occurrence. Likelihood of occurrence is based on actual observation of the species, signs of the species (burrows, tracks, scat, etc.), observance of suitable habitat, or documented occurrences of the species within various databases.

Table 2						
Potential Listed Species Occurrence						
Common Name		Scientific Name	Federal Status	State Status	Comments	Likelihood of Occurrence
Birds	Wood Stork	*Mycteria americana*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Foraging	Moderate
	Audubon's Crested Caracara	*Polyborus plancus audubonii*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Burrowing Owl	*Athene cunicularia*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: Burrowing/foraging	Low
	Southeastern American Kestrel	*Falco sparverius paulus*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Florida Sandhill Crane	*Grus canadensis pratensis*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
Reptiles	Eastern Indigo Snake	*Drymarchon corais couperi*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: foraging	Low
	Gopher Tortoise	*Gopherus polyphemus*	C	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Burrowing/foraging	Moderate
Federal Status: E = Endangered; T = Threatened; T(S/A) = Threatened due to Similarity of Appearance; C = Candidate Species; NL = Not Listed. State Status: FE- Federally Endangered; FT – Federally Threatened; FT(S/A) – Federally Threatened due to Similarity of Appearance; ST- State Threatened; SSC = Species of Special Concern. Note: Coordination is not required with FWC for Federally listed species.						



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 4 - FLUCFCS Map (2).mxd

Source: Basemap provided by ArcGIS

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FLUCFCS Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	MARCH 2021	FIGURE 4

Based on the database review and field reconnaissance, the following species could occur on-site or require additional evaluation, survey, or permitting.

Eastern Indigo Snake

The eastern indigo snake occurs in a range of habitats, including pine flatwoods, scrubby flatwoods, high pine, dry prairie, tropical hardwood hammocks, edges of freshwater marshes, agricultural fields, coastal dunes, and human-altered habitats. The snake requires large tracts of land to survive and often winters in burrows of gopher tortoises, armadillos, cotton rats, and land crabs (in coastal areas) and forages in hydric habitats. No individuals were observed during field reconnaissance; however, marginal habitat for the eastern indigo snake does exist on-site. Thus, per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS *Standard Protection Measures for the Eastern Indigo Snake* (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated.

Audubon's Crested Caracara

The Audubon's crested caracara inhabits wet prairies with cabbage palms and may also be found in wooded areas with saw palmetto, pastures and farmlands, cypress, and scrub oaks. During field reconnaissance, potential nesting and foraging habitat for the caracara was observed on-site. Thus, consultation with USFWS and a crested caracara survey is recommended to determine the presence or absence of a nest onsite. Surveys must adhere to the *USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season)* (***Appendix C***) and begin no later than January 10 and continue through April 30.

Wood Stork

The wood stork inhabits both fresh and saltwater habitats, such as fresh and saltwater marshes, tidal flats, wet prairies, cypress swamps, and drainage features. As part of the Effect Determination Key for the Wood Stork in South Florida, 18.6-mile core foraging area (CFA) buffers were established around known wood stork colonies. These buffers monitor proposed impacts to suitable foraging habitats (SFH) for the wood stork, which include shallow-water areas containing relatively open (<25% aquatic vegetation) water with a permanent or seasonal water depth between 2 and 15 inches. No wood storks were observed during field reconnaissance; however, the surface water and wetlands on-site

provides SFH for wood storks. Therefore, if impacts to the surface water or wetlands are anticipated, coordination regarding the wood stork will be required with the SFWMD and a wood stork foraging assessment may be required. Further discussion is provided in Section 4.3 below.

Burrowing Owl

The Florida burrowing owl is a small, ground-dwelling owl that is boldly spotted and bared with brown and white. They often dig their own burrow and line the entrance with decorative materials prior to laying eggs at the bottom of the burrow. They inhabit high, sparsely vegetated, sandy ground and can be found in ruderal areas such as pastures, airports, ball fields, and road rights-of-ways. Burrowing owl habitat on-site is marginal, and no individuals or burrows were observed. No further action is required regarding this species.

Southeast American Kestrel

The southeast American Kestrel's range is limited by nest and perch site availability, foraging habitat and food supply all near one another. Kestrels utilize a wide variety of habitats and nest in open pine habitats, woodland edges, prairies, and pastures throughout much of Florida. Nest sites are in tall dead trees or utility poles generally with an unobstructed view of surroundings. No kestrels were observed within the project site, however, habitat is present on-site. A kestrel survey for the Florida subspecies (*Falco sparverius paulus*) is recommended before development occurs, which will need to be conducted during non-migratory periods when the northern kestrel would not be present. That survey can be conducted between May – August.

Sandhill Crane

The Florida sandhill crane is listed as threatened by the FWC and inhabits prairies, freshwater marshes, and pasture lands. This crane is known to forage within agricultural areas like feed lots and crop fields, golf courses and other open lawns. Potential foraging habitat occurs on-site; however, nesting habitat was marginal on-site and no sandhill cranes were observed. If Florida sandhill cranes are not nesting on-site, no further action is required.

Gopher Tortoise

The gopher tortoise is a burrowing tortoise that inhabits upland habitats such as pine flatwoods, xeric oak hammocks, and open sandy pastures, but can also often occur in disturbed areas. A 15% gopher tortoise burrow survey was conducted, and no gopher tortoises or their burrows were observed. Potential habitat for the gopher tortoise does occur on-site, and thus a 100% gopher tortoise survey will need to be completed no more than 90 days prior to construction. Impacts to or within 25 feet of gopher tortoise burrows require a relocation permit from FWC. This permit authorizes gopher tortoises to be relocated by an authorized agent off the development property to a protected certified recipient area.

Listed Plant Species

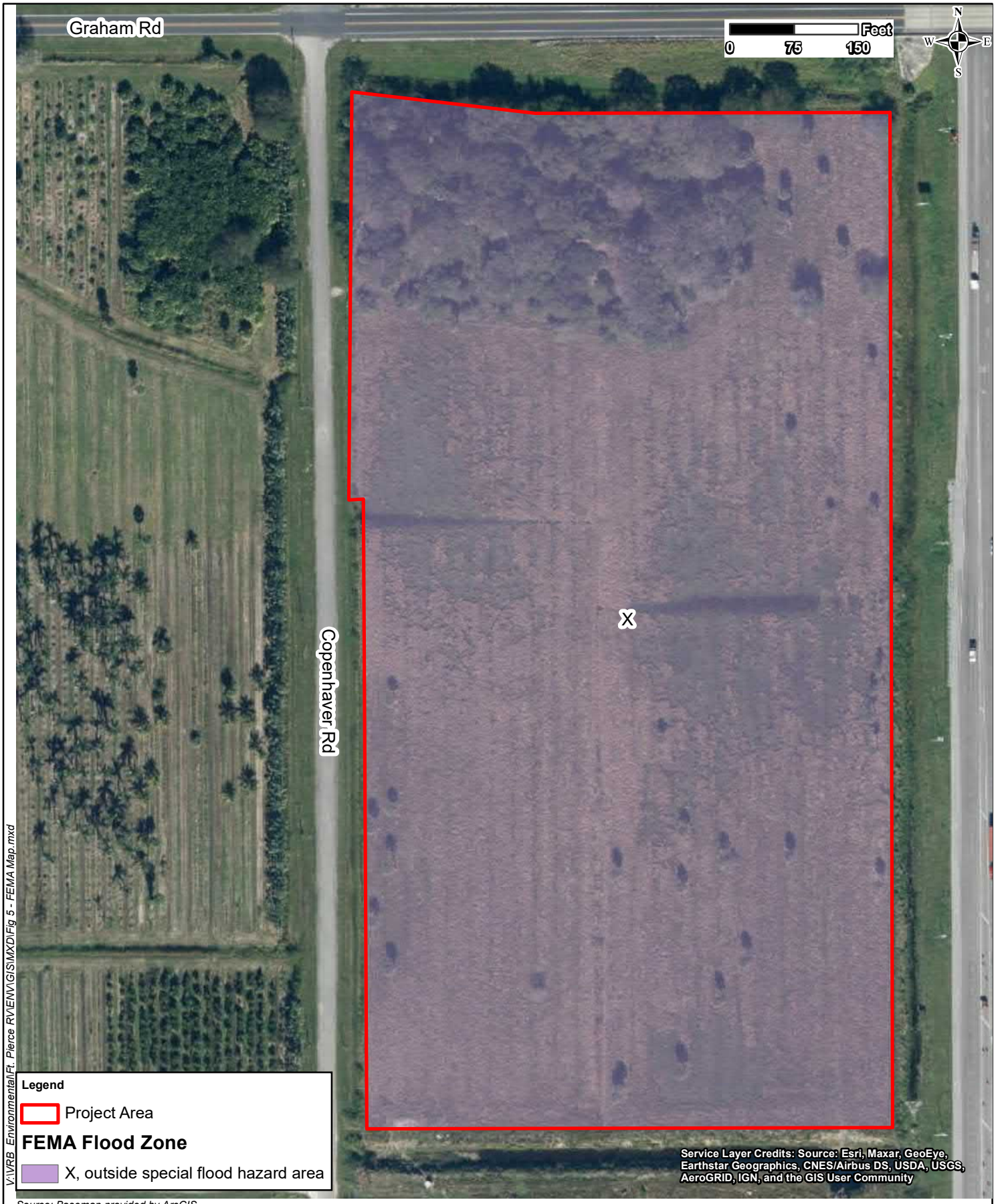
The Florida Department of Agriculture and Consumer Service's *Notes on Florida's Threatened and Endangered Plants*, and Richard Wunderlin's *Guide to Vascular Plants of Florida*, were consulted to assess habitat requirements for listed plant species. Although seven state-listed plants were noted by FNAI as possibly occurring in this area, none were observed during field reconnaissance. No further action is required regarding listed plant species.

3.6 HISTORIC AND ARCHAEOLOGICAL RESOURCES

Kimley-Horn requested an inquiry from the Department of State, State Historic Preservation Officer (SHPO) Division of Historical Resources Florida Master Site File (FMSF) regarding the presence of known historical or archaeological findings on the project site, or in the immediate vicinity (***Appendix D***). The FMSF lists two standing structures and one resource group within a 0.25-mile radius of the project area, however, none are within the project site, thus no historic or archaeological resources are anticipated to be impacted by development of the project site.

3.7 FLOODPLAIN INFORMATION

The FEMA FIRM panel [12061C0166E] indicates that the entirety of the project site is located within Flood Zone X – defined as areas determined to be outside of the special flood hazard area. A FEMA flood zone map is attached as ***Figure 5***. No required floodplain compensation is anticipated.



V:\IVRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 5 - FEMA Map.mxd

Source: Basemap provided by ArcGIS

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FEMA Flood Zone Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 5

4.0 REGULATORY REQUIREMENTS

4.1 LOCAL ENVIRONMENTAL ORDINANCES

Based on a review of the municipal codes and ordinances for St. Lucie County, existing permitting requirements and regulations of state and federal regulatory agencies must be followed and applied. Additionally, per the Land Development Code of St. Lucie County, vegetation removal activities of native species in unincorporated areas requires a Vegetation Removal Permit from the Public Works Director. A tree survey will be required to determine status of trees on-site.

The St. Lucie County Land Development Code also gives St. Lucie County regulatory authority over all wetlands, however this authority is carried out via coordination with state and federal agencies. Thus, a state or federal permit required for construction, dredging, filling, or alteration within jurisdictional wetlands will supersede the county permitting mechanism. Mitigation must demonstrate no net losses due to impacts of these areas. Additionally, a minimum 10-foot buffer zone of native upland transitional vegetation is required around any isolated wetlands preserved on development sites.

4.2 STATE REGULATORY REQUIREMENTS

Environmental Resource Permit

An Environmental Resource Permit (ERP) will be required for the project if impacts to the on-site surface water or wetlands are proposed. The ERP evaluates the project impacts to wetlands, surface waters, and stormwater management design including floodplain impacts. An ERP may also be required from the SFWMD if any stormwater improvements are proposed as part of this project. Drainage design and stormwater management is not discussed further in this report as the scope was limited to natural resources.

It should be noted that the FDEP has assumed administration of the Clean Water Act (CWA) Section 404 program. FDEP will process Section 404 permits within State-assumed Waters of the US (WOTUS) rather than the US Army Corps of Engineers (USACE). Based on a preliminary review, there do not appear to be WOTUS present on-site, and therefore, authorization under Section 404 should not be required.

Listed Species Permitting

The following state-listed species may potentially occur on-site:

- Gopher tortoise
- Southeastern American kestrel

Gopher Tortoise

Based on the presence of potential gopher tortoise habitat on-site, a 100% gopher tortoise burrow survey is required to be conducted within 90 days prior to construction commencement, and a gopher tortoise relocation permit will be required from FWC if any relocation is required.

Southeastern American kestrel

Based on the on-site habitat suitable for the southeastern American kestrel, a kestrel survey is recommended for the Florida subspecies prior to site development. This will need to be conducted between May and August.

4.3 FEDERAL REGULATORY REQUIREMENTS

Section 404 Dredge and Fill Permitting

Please refer to State Regulatory Requirements above. Based on a preliminary review, WOTUS do not appear to be present on-site, and therefore, authorization under Section 404 is not required. This project is not within 300 ft. of a USACE retained water, so permitting under Section 404 can be authorized under the DEP State 404 Program.

Federal Listed Species

The following federally listed species were observed or potentially occur on-site:

- Wood Stork
- Eastern indigo snake
- Audubon's crested caracara

Wood Stork

The proposed project occurs within the CFA of two wood stork colonies. Foraging habitat is present in the surface water through the central portion of the property. In accordance with USFWS's 2010 South Florida Programmatic Concurrence and Key, a wood stork foraging analysis may be required if impacts to SFH are proposed. Mitigation requirements will be based on this analysis.

Eastern Indigo Snake

Per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS Standard Protection Measures for the Eastern Indigo Snake (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated to be required.

Audubon's Crested Caracara

Potential caracara habitat exists on-site. Therefore, consultation with USFWS and a crested caracara survey is recommendedto determine the presence or absence of a nest on-site. Surveys must adhere to the USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season) and begin no later than January 10 and continue through April 30.

5.0 SUMMARY AND RECOMMENDATIONS

- A tree survey and Vegetation Removal Permit from St. Lucie County may be required for tree removal prior to development.
- An ERP from SFWMD will be required to authorize stormwater improvements and any wetland or surface water impacts as part of site development. Based on the FMSF, there were no historic or archaeological resources within the study area.
- The site does not appear to contain jurisdictional WOTUS, so authorization under Section 404 will not be required through a State 404 Program permit.
- The following state and federally listed species were observed or potentially occur on-site: Audubon's crested caracara, wood stork, gopher tortoise, Southeastern American kestrel, and Eastern indigo snake. Additional surveys and permits may be required for the crested caracara, gopher tortoise, kestrel, and wood stork. Implementation of the Standard Protection Measures is recommended for the eastern indigo snake.

- The project site is not within a FEMA designated floodplain, and additional engineering analysis regarding the floodplain is not anticipated. This topic will be evaluated during civil engineering design and permitting with the SFWMD.

APPENDIX A
FNAI BIODIVERSITY MATRIX
IPAC SPECIES LIST

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850-224-8207
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Florida Natural Areas Inventory

Biodiversity Matrix Query Results

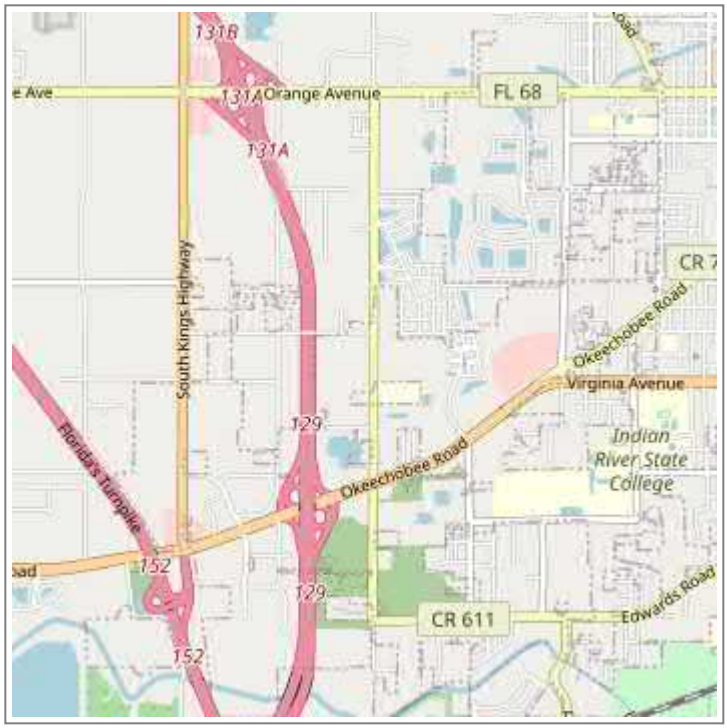
UNOFFICIAL REPORT

Created 3/15/2021

(Contact the FNAI Data Services Coordinator at 850.224.8207 or kbrinegar@fnai.fsu.edu for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 1 Matrix Unit: 65769



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 65769

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

2 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 65769

13 **Potential** Elements for Matrix Unit 65769

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing

Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	SSC
Coelorachis tuberculosa Piedmont Jointgrass	G3	S3	N	T
Conradina grandiflora Large-flowered Rosemary	G3	S3	N	T
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	FT
Eudocimus albus White Ibis	G5	S4	N	SSC
Glandularia maritima Coastal Vervain	G3	S3	N	E
Gopherus polyphemus Gopher Tortoise	G3	S3	C	ST
Lechea cernua Nodding Pinweed	G3	S3	N	T
Linum carteri var. smallii Small's Flax	G2T2	S2	N	E
Nemastylis floridana Celestial Lily	G2	S2	N	E
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	T
Sceloporus woodi Florida Scrub Lizard	G2G3	S2S3	N	N
Sciurus niger shermani Sherman's Fox Squirrel	G5T3	S3	N	SSC

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
Phone: (772) 562-3909 Fax: (772) 562-4288
http://fws.gov/verobeach

In Reply Refer To: March 18, 2021
Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
(772) 562-3909

Project Summary

Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV
Project Type: DEVELOPMENT
Project Description: NRA
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@27.42731565,-80.38981320093714,14z



Counties: St. Lucie County, Florida

Endangered Species Act Species

There is a total of 16 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Florida Panther *Puma (=Felis) concolor coryi* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1763	Endangered
Puma (=mountain Lion) *Puma (=Felis) concolor (all subsp. except coryi)* Population: FL No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6049	Similarity of Appearance (Threatened)
Southeastern Beach Mouse *Peromyscus polionotus niveiventris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3951	Threatened

Birds

NAME	STATUS
Audubon's Crested Caracara *Polyborus plancus audubonii* Population: FL pop. No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8250	Threatened
Everglade Snail Kite *Rostrhamus sociabilis plumbeus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7713	Endangered
Florida Grasshopper Sparrow *Ammodramus savannarum floridanus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/32	Endangered
Whooping Crane *Grus americana* Population: U.S.A. (CO, ID, FL, NM, UT, and the western half of Wyoming) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential
Wood Stork *Mycteria americana* Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477	Threatened

Reptiles

NAME	STATUS
American Alligator *Alligator mississippiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/776	Similarity of Appearance (Threatened)
Hawksbill Sea Turtle *Eretmochelys imbricata* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3656	Endangered
Leatherback Sea Turtle *Dermochelys coriacea* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1493	Endangered
Loggerhead Sea Turtle *Caretta caretta* Population: Northwest Atlantic Ocean DPS There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1110	Threatened

Insects

NAME	STATUS
Miami Blue Butterfly *Cyclargus (=Hemiargus) thomasi bethunebakeri*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/3797

Flowering Plants

NAME	STATUS
Fragrant Prickly-apple *Cereus eriophorus var. fragrans*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/982

Lakela's Mint *Dicerandra immaculata*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/6390

Tiny Polygala *Polygala smallii*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/996

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX B

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1339 20th Street
Vero Beach, Florida 32960

August 1, 2017

Donnie Kinard
U.S. Army Corps of Engineers
Post Office Box 4970
Jacksonville, Florida 32232-0019

Subject: Consultation Key for the Eastern Indigo Snake – Revised

Dear Mr. Kinard:

This letter revises and replaces the January 25, 2010, and August 13, 2013, letters to the U.S. Army Corps of Engineers (Corps) regarding the use of the eastern indigo snake programmatic effect determination key (Key) for projects occurring within the South Florida Ecological Service's Office (SFESO) jurisdiction. This revision supersedes all prior versions of the Key in the SFESO area. The purpose of this revision is to clarify portions of the previous keys based on questions we have been asked, specifically related to habitat and refugia used by eastern indigo snakes (*Drymarchon corais couperi*), in the southern portion of their range and within the jurisdiction of the SFESO. This Key is provided pursuant to the Service's authorities under the Endangered Species Act of 1973, as amended (Act) (87 Stat. 884; 16 U.S.C.1531 *et seq.*). This Key revision has been assigned Service Consultation Code: 41420-2009-I-0467-R001.

The purpose of this Key is to assist the Corps (or other Federal action agency) in making appropriate effects determinations for the eastern indigo snake under section 7 of the Act, and streamline informal consultation with the SFESO for the eastern indigo snake when the proposed action can be walked through the Key. The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

This Key uses project size and home ranges of eastern indigo snakes as the basis for making determinations of "may affect, but is not likely to adversely affect" (NLAA) and "may affect. and is likely to adversely affect" (may affect). Suitable habitat for the eastern indigo snake consists of a mosaic of habitats types, most of which occur throughout South Florida. Information on home ranges for individuals is not available in specific habitats in South Florida. Therefore, the SFESO uses the information from a 26-year study conducted by Layne and Steiner (1996) at Archbold Biological Station, Lake Placid, Florida, as the best available

information. Layne and Steiner (1996) determined the average home range size for a female eastern indigo snake was 46 acres and 184 acres for a male.

Projects that would remove/destroy less than 25 acres of eastern indigo snake habitat are expected to result in the loss of a portion of an eastern indigo snakes home range that would not impair the ability of the individual to feed, breed, and shelter. Therefore, the Service finds that take would not be reasonably certain to occur due to habitat loss. However, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take. Consequently, projects less than 25 acres that include the Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and a commitment to excavate underground refugia as part of the proposed action would be expected to avoid take and thus, may affect, but are not likely to adversely affect the species.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

Projects that would remove 25 acres or more of eastern indigo snake habitat could remove more than half of a female eastern indigo snakes home range. This loss of habitat within a home range would be expected to significantly impair the ability of that individual to feed, breed, and shelter. Therefore, the Service finds take through habitat loss would be reasonably certain to occur and formal consultation is appropriate. Furthermore, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures* for the *Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take.

Eastern indigo snakes use a variety of habitat and are difficult to detect. Therefore, site specific information on the land use, observations of eastern indigo snakes within the vicinity, as well as other factors, as appropriate, will all be considered by the Service when making a final recommendation on the appropriate effects determination and whether it is appropriate to conclude consultation with the Corps (or other Federal action agency) formally or informally for projects that will impact 25 acres or more of habitat. Accordingly, when the use of the Key results in a determination of "may affect," the Corps (or other Federal action agency) is advised that consultation may be concluded informally or formally, depending on the project specific effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps (or other Federal action agency) desires to proceed with a consultation request prior to receiving

additional technical assistance from the Service, we recommend the agency documents the biological rationale for their determination and proceed with a request accordingly.

If the use of the Key results in a determination of "no effect," no further consultation is necessary with the SFESO. If the use of the Key results in a determination of "NLAA," the SFESO concurs with this determination based on the rationale provide above, and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake. For "no effect" or "NLAA" determinations, the Service recommends that the Corps (or other Federal action agency) documents the pathway used to reach your no effect or NLAA determination in the project record and proceed with other species analysis as warranted.

Eastern Indigo Snake Programmatic Effect Determination Key
Revised July 2017
South Florida Ecological Service Office

Scope of the Key

This Key should be used only in the review of permit applications for effects determinations for the eastern indigo snake (*Drymarchon corais couperi*) within the South Florida Ecological Service's Office (SFESO) area (Broward, Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Indian River, Martin, Miami-Dade, Monroe, Okeechobee, Osceola, Palm Beach, Polk, Sarasota, and St. Lucie Counties). There is no designated critical habitat for the eastern indigo snake.

This Key is subject to revision as the Corps (or other Federal action agency) and Service deem necessary and in particular whenever there is new information on eastern indigo snake biology and effects of proposed projects.

The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

Habitat

Habitat use varies seasonally between upland and wetland areas, especially in the more northern parts of the species' range. In southern parts of their range eastern indigo snakes are habitat generalists which use most available habitat types. Movements between habitat types in northern areas of their range may relate to the need for thermal refugia (protection from cold and/or heat).

In northern areas of their range eastern indigo snakes prefer an interspersion of tortoise-inhabited sandhills and wetlands (Landers and Speake 1980). In these northern regions eastern indigo

snakes most often use forested areas rich with gopher tortoise burrows, hollowed root channels, hollow logs, or the burrows of rodents, armadillos, or land crabs as thermal refugia during cooler seasons (Lawler 1977; Moler 1985a; Layne and Steiner 1996). The eastern indigo snake in the northern region is typically classified as a longleaf pine savanna specialist because here, in the northern four-fifths of its range, the eastern indigo snake is typically only found in vicinity of xeric longleaf pine–turkey oak sandhills inhabited by the gopher tortoise (Means 2006).

In the milder climates of central and southern Florida, comprising the remaining one fifth of its range, thermal refugia such as those provided by gopher tortoise burrows may not be as critical to survival of indigo snakes. Consequently, eastern indigo snakes in these regions use a more diverse assemblage of habitats such as pine flatwoods, scrubby flatwoods, floodplain edges, sand ridges, dry glades, tropical hammocks, edges of freshwater marshes, muckland fields, coastal dunes, and xeric sandhill communities; with highest population concentrations of eastern indigo snakes occurring in the sandhill and pineland regions of northern and central Florida (Service 1999). Eastern indigo snakes have also been found on agricultural lands with close proximity to wetlands (Zeigler 2006).

In south Florida, agricultural sites (*e.g.*, sugar cane fields and citrus groves) are occupied by eastern indigo snakes. The use of sugarcane fields by eastern indigo snakes was first documented by Layne and Steiner in 1996. In these areas there is typically an abundance of wetland and upland ecotones (due to the presence of many ditches and canals), which support a diverse prey base for foraging. In fact, some speculate agricultural areas may actually have a higher density of eastern indigo snakes than natural communities due to the increased availability of prey. Gopher tortoise burrows are absent at these locations but there is an abundance of both natural and artificial refugia. Enge and Endries (2009) reporting on the status of the eastern indigo snake included sugarcane fields and citrus groves in a Global Information Systems (GIS)-base map of potential eastern indigo snake habitat. Numerous sightings of eastern indigo snakes within sugarcane fields have been reported within south Florida (Florida Fish and Wildlife Conservation Commission Indigo Snake Database [Enge 2017]). A recent study associated with the Comprehensive Everglades Restoration Plan (CERP) (A-1 FEB Project formerly A-1 Reservoir; Service code: 41420-2006-F-0477) documented eastern indigo snakes within sugarcane fields. The snakes used artificial habitats such as piles of limerock, construction debris, and pump stations. Recent studies also associated with the CERP at the C-44 Project (Service code: 41420-2009-FA-0314), and C-43 Project (Service code: 41420-2007-F-0589) documented eastern indigo snakes within citrus groves. The snakes used artificial habitats such as boards, sheets of tin, construction debris, pipes, drain pipes in abandoned buildings and septic tanks.

In extreme south Florida (*i.e.*, the Everglades and Florida Keys), eastern indigo snakes also utilize tropical hardwood hammocks, pine rocklands, freshwater marshes, abandoned agricultural land, coastal prairie, mangrove swamps, and human-altered habitats. Though eastern indigo snakes have been found in all available habitats of south Florida it is thought they prefer hammocks and pine forests since most observations occur there and use of these areas is disproportionate compared to the relatively small total area of these habitats (Steiner *et al.* 1983).

Even though thermal stress may not be a limiting factor throughout the year in south Florida, eastern indigo snakes still seek and use underground refugia. On the sandy central ridge of central Florida, eastern indigo snakes use gopher tortoise burrows more (62 percent) than other underground refugia (Layne and Steiner 1996). Other underground refugia used include armadillo (*Dasypus novemcinctus*) burrows near citrus groves, cotton rat (*Sigmodon hispidus*) burrows, and land crab (*Cardisoma guanhumi*) burrows in coastal areas (Layne and Steiner 1996; Wilson and Porras 1983). Natural ground holes, hollows at the base of trees or shrubs, ground litter, trash piles, and crevices of rock-lined ditch walls are also used (Layne and Steiner 1996). These refugia are used most frequently where tortoise burrows are not available, principally in low-lying areas off the central and coastal ridges.

Minimization Measures

The Service developed protection measures for the eastern indigo snake "Standard Protection Measures for the Eastern Indigo Snake" (Service 2013) located at: https://www.fws.gov/verobeach/ReptilesPDFs/20130812_EIS%20Standard%20Protection%20Measures_final.pdf. These protections measures (or the most updated version) are considered a minimization measure for projects proposed within eastern indigo snake habitat.

Determinations

If the use of this Key results in a determination of "**no effect**," no further consultation is necessary with the SFESO.

If the use of this Key results in a determination of "**NLAA**," the SFESO concurs with this determination and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake.

For no effect or NLAA determinations, the Corps (or other Federal action agency) should make a note in the project file indicating the pathway used to reach your no effect or NLAA determination.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the subsequent Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

If the use of this Key results in a determination of "**may affect**," consultation may be concluded informally or formally depending on project effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps desires to proceed with a consultation request prior to receiving additional technical assistance from the Service, we recommend the Corps document the biological rationale for their determination and proceed with a request accordingly.

A. Project is not located in open water or salt marsh.....go to B

Project is located solely in open water or salt marsh.....**no effect**

B. Permit will be conditioned for use of the Service's most current guidance for Standard Protection Measures For The Eastern Indigo Snake (currently 2013) during site preparation and project construction.....go to C

Permit will not be conditioned as above for the eastern indigo snake, or it is not known whether an applicant intends to use these measures and consultation with the Service is requested.....**may affect**

C. The project will impact less than 25 acres of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....go to D

The project will impact 25 acres or more of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....**may affect**

D. The project has no known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and/or injured during project activities.....**NLAA**

The project has known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and /or injured.....go to E

E. Any permit will be conditioned such that all gopher tortoise burrows, active or inactive, will be excavated prior to site manipulation in the vicinity of the burrow[1]. If an eastern indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Any permit will also be conditioned such that holes, cavities, and snake refugia other than gopher tortoise burrows will be inspected each morning before planned site manipulation of a particular area, and, if occupied by an eastern indigo snake, no work will commence until the snake has vacated the vicinity of proposed work.....**NLAA**[2]

Permit will not be conditioned as outlined above.....**may affect**

End Key

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[1] If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission Authorized Gopher Tortoise Agent permit. The excavation method selected should also minimize the potential for injury of an indigo snake. Applicants should follow the excavation guidance provided within the most current Gopher Tortoise Permitting Guidelines found at http://myfwc.com/gophertortoise.

[2] Please note, if the proposed project will impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, NLAA is not the appropriate conclusion. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range

Working with the Fish and Wildlife Foundation of Florida, the Service has established a fund to support conservation and recovery for the eastern indigo snake. Any project that has the potential to affect the eastern indigo snake and/or its habitat is encouraged to make a voluntary contribution to this fund. If you would like additional information about how to make a contribution and how these monies are used to support eastern indigo snake recovery please contact Ashleigh Blackford, Connie Cassler, or José Rivera at 772-562-3559.

This revised Key is effective immediately upon receipt by the Corps. Should circumstances change or new information become available regarding the eastern indigo snake and/or implementation of the Key, the determinations herein may be reconsidered and this Key further revised or amended.

Thank you for your continued cooperation in the effort to conserve fish and wildlife resources. If you have any questions or comments regarding this Key, please contact the SFESO at 772-562-3909.

Sincerely,

Roxanna Hinzman
Field Supervisor
South Florida Ecological Services

Cc:
Corps, Jacksonville, Florida (Dale Beter, Muriel Blaisdell, Ingrid Gilbert, Angela Ryan, Irene Sadowski, Victoria White, Alisa Zarbo)
Service, Athens, Georgia (Michelle Elmore)
Service, Jacksonville, Florida (Annie Dziergowski)
Service, Panama City, Florida (Sean Blomquist)

LITERATURE CITED

Enge K. M. 2017. Personal communication. Email from Kevin Enge, Florida Fish and Wildlife Conservation Commission, Gainesville, Florida to Steve Mortellaro, U.S. Fish and Wildlife Service, Vero Beach, Florida, July 5, 2017. Locations of Eastern Indigo Snake (*Drymarchon couperi*).

Enge K. M. and M. J. Endries. 2009. Status of the Eastern Indigo Snake (*Drymarchon couperi*) in Florida. Southeast Partners in Amphibian and Reptile Conservation Meeting.

Landers, J. L. and D.W. Speake. 1980. Management Needs of Sandhill Reptiles in Southern Georgia. Proceedings Annual Conference of Southeastern Association of Fish and Wildlife Agencies. 34: 515-529.

Layne, J.N., and T.M. Steiner. 1996. Eastern indigo snake (Drymarchon corais couperi): summary of research conducted on Archbold Biological Station. Report prepared under Order 43910-6-0134 to the U.S. Fish and Wildlife Service; Jackson, Mississippi.

Lawler, H.E. 1977. The status of *Drymarchon corais couperi* (Holbrook), the eastern indigo snake, in the southeastern U.S.A. *Herpetological Review* 8(3):76-79.

Means, D. B. 2006. Vertebrate faunal diversity of longleaf pine ecosystems. In *The Longleaf Pine Ecosystem* pp. 157-213. Springer New York.

Molar, P.E. 1985a. Distribution of the eastern indigo snake, *Drymarchon corais couperi*, in Florida. *Herpetological Review* 16(2):37-38.

Moler, P.E. 1985b. Home range and seasonal activity of the eastern indigo snake, Drymarchon corais couperi, in northern Florida. Final performance report, Study E-1-06, III-A-5. Florida Game and Fresh Water Fish Commission; Tallahassee, Florida.

Steiner, T.M., O.L. Bass, Jr., and J.A. Kushlan. 1983. Status of the eastern indigo snake in Southern Florida National Parks and vicinity. South Florida Research Center Report SFRC-83-01, Everglades National Park; Homestead, Florida.

U.S. Fish and Wildlife Service (Service). 1999. South Florida multi-species recovery plan. 23 pp.

U.S. Fish and Wildlife Service (Service). 2013. Standard Protection Measures for the Eastern Indigo Snake. August 12, 2013. U.S. Fish and Wildlife Service, South Florida Ecological Services Office; Vero Beach, Florida.

Wilson, L.D. and L. Porras. 1983. The ecological impact of man on the south Florida herpetofauna. *University of Kansas Museum of Natural History Special Publication* 9:1–89.

Zeigler, M. 2006. Personal communication. Citrus grove operations manager. Meeting with the U.S. Fish and Wildlife Service on August 1, 2006. Agricultural Resource Management; Vero Beach, Florida.

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE
U.S. Fish and Wildlife Service
August 12, 2013

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: jaxregs@fws.gov; South Florida Field Office: verobeach@fws.gov; Panama City Field Office: panamacity@fws.gov). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or "approval" from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or "approval" from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via e-mail, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

POSTER INFORMATION

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11" x 17" or larger paper and laminated, is attached):

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

PROTECTION UNDER FEDERAL AND STATE LAW: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of $25,000 for civil violations and up to $50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

IF YOU SEE A <u>LIVE</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A <u>DEAD</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida Field Office – (904) 731-3336
Panama City Field Office – (850) 769-0552
South Florida Field Office – (772) 562-3909

PRE-CONSTRUCTION ACTIVITIES

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.

2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.

3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

DURING CONSTRUCTION ACTIVITIES

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).

2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.

3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.

APPENDIX C

USFWS CRESTED CARACARA DRAFT SURVEY PROTOCOL ADDITIONAL GUIDANCE

USFWS Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season)

The northern crested caracara (*Caracara cheriway*) is a resident, diurnal, and non-migratory raptor that occurs primarily in Florida, Texas, Arizona, Cuba, Mexico, Central America, and the northern portions of South America (Morrison and Dwyer 2012). Only the Florida population, which is isolated from the remainder of the species, is listed as threatened under the Endangered Species Act.

In order to avoid the potential for unauthorized take, future project sites within the caracara consultation area (Figure 1) containing habitats (same or similar) as described below should undergo a formal caracara survey to determine site utilization by caracaras. The intent of caracara surveys is three-fold: (1) to determine the location(s) of active caracara nest(s) that could be adversely affected by the proposed project; (2) to determine the presence and use of the project area by breeding and non-breeding caracaras, including the approximate boundaries of breeding territories, if possible; and (3) to determine the fate and productivity of any caracara nest found.

We recommend coordinating with the U.S. Fish and Wildlife Service (Service) prior to conducting surveys, including submittal of a proposed survey plan and list of observers which follows the guidance below. Following the guidance will ensure that the surveys are timed during the period of greatest detection to document caracaras within or adjacent to the proposed project. The Service has caracara observation and nest location data as well as designated caracara congregation areas that may be of use for planning surveys. For project consultations under the Endangered Species Act, surveys must follow this protocol and must be no older than the previous caracara nesting season (January – April) in order to be considered valid. In the event that construction or vegetation clearing activity will occur more than one year after permitting is completed, contact the Service to discuss the need for follow-up surveys.

Foraging and Nesting Habitat

The Florida caracara population commonly occurs on dry or wet prairies with scattered cabbage palms (*Sabal palmetto*). It may also be found in lightly wooded areas. Scattered saw palmetto (*Serenoa repens*), scrub oaks (*Quercus geminata, Q. minima, Q. pumila*), and cypress (*Taxodium* spp.) may also be present. Widespread changes in land use may have caused a change in habitat use in this species. Morrison and Humphrey (2001) found a strong association of caracara home ranges with improved pasture. The presence of seasonal wetlands, which may serve as foraging habitat, is an important factor in the attractiveness of these pastures to caracaras (Service 1999). Therefore, today we recognize caracara foraging habitat (and nesting territories) as those areas with short herbaceous vegetation. This includes native wet and dry prairies, but also improved, unimproved, and woodland pastures, sod farms, row crops, levees, and rangeland. Juvenile caracaras may also use citrus and tree farms.

The primary nesting substrate is cabbage palm, although there have been rare reports of nesting in slash pine (pers. obs.), cypress, oak, red cedar (Morrison 2007), Australian pine

(*Casuarina* sp.), saw palmetto, and black gum (*Nyssa sylvatica*), and even more atypical locations such as an electrical substation, radio tower, and billboard (Dwyer and DallaRosa 2015).

Survey Design and Planning

The protective area for a caracara nest is a radius of about 1,500 meters (m) (4,920 feet) from the nest. Therefore, the survey area should include the project area and a 1,500-m buffer zone around the perimeter of the project area (including access roads) to account for off-site nest trees in territories that might overlap onto the project area. A recent aerial photograph depicting the project boundary and buffer zone should be used to identify all areas of suitable habitat and to preliminarily map observation blocks. An observation block is defined as an area easily observable from one vantage point. Enough observation blocks must be identified to cover all suitable habitats within the project boundary and 1,500-m buffer. Surveyors should try to obtain legal access to non-project property within the survey area where suitable habitat exists; these efforts should be documented (e.g., copy of letter, email, etc.). If permission cannot be obtained, contact the Service for additional guidance prior to initiating surveys.

Prior to the first survey, a site visit should be conducted to confirm suitable habitat and the location of observation blocks. Based on this site assessment (*e.g.*, presence of visual obstructions), observation blocks may need to be revised. During the site visit, also identify observer survey stations (at least one per observation block). Survey stations should be located to allow full, unobstructed view of the observation block – strategic points are those where caracaras are more likely to be seen going to and from potential nesting or foraging sites. Based on the site assessment, update the aerial photo to show suitable habitat, and labeled observation blocks and their respective survey stations. The location of survey stations may be adjusted if needed based on initial survey results in order to obtain a different/better view of caracara activity. Any adjustments to the survey design should be documented via revised maps.

Observer Qualifications

Information from a recent study (Dwyer *et al.* 2012) suggested that the probability that a visit or series of visits (*i.e.*, a survey) would lead to the discovery of an existing caracara nest increases with an experienced observer. Due to their cryptic nest site locations and unorthodox method of foraging (walking on the ground), successful nest site surveys require a specific skillset acquired by conducting numerous surveys under the supervision of an experienced caracara surveyor. In addition, caracaras can be hard to find and identify at long distances, especially under low-light conditions. Caracaras may also be wary of humans and will change their behavior in the presence of people, which can make locating nests extremely difficult for less experienced observers. Due to these factors, surveys must be conducted by a qualified biologist having at least two years of experience conducting bird surveys and at least 40 hours of caracara survey experience (i.e., equivalent to one survey season) under the supervision of an experienced caracara surveyor. If an observer does not meet these minimum qualifications,

the observer should be accompanied by a qualified observer who will serve as the primary observer. Even in cases of qualified observers, and where staff resources allow it, having two observers at the same station can increase the probability of finding a nest.

Conducting Foraging and Nesting Surveys

The highest probability of success in finding caracara nests is during the period of January through March. This period covers the time when adult caracaras are foraging to feed nestlings and therefore, become more visible to observers. As such, surveys must start no later than January 10 and continue through April 30 to provide adequate data to conclude whether or not the site contains an active caracara nest and/or foraging habitat. If the survey starts after January 10, and no nest are found, the survey may not be considered valid by the Service. Surveys considered invalid should be repeated the following nesting season using the latest Service protocol to ensure that early nesting birds were not missed. Surveys should not be conducted in November or December without additional coordination with the Service to avoid disturbing nesting caracaras during nest initiation or incubation, when they are more prone to disturbance.

A complete survey of the project area consists of one survey session every two weeks of each observation block within the project area and the 1,500-m buffer from early January (i.e., Jan 1 - 10) through April 30 (unless a nest is found within the observation block prior to April 30; in that event, begin Productivity Surveys as described below). A survey session is defined as a single survey within an identified observation block initiated at least 15 minutes prior to sunrise and lasting 3 hours (Dwyer et al. 2012). The entire 3-hour survey session must be spent viewing the one observation block – observers cannot rotate between stations, cruise roads, or leave the observation block unless following a flying caracara. If the survey area is large or includes obstructed views, and multiple observation blocks are required, then multiple observers (preferred) or additional survey sessions will be needed to complete the survey of the entire project area. Afternoon or evening surveys are optional, but cannot be substituted for early morning surveys (in the event of not finding a nest). More frequent morning surveys (i.e., more than one during any two-week period) of an observation block are also optional, and can increase the probability of finding a nest, but cannot replace the subsequent “once per two-week surveys” through April 30 (in the event of not finding a nest).

Surveys should be conducted from inside a vehicle (best option is a truck or similar vehicle to maximize height and minimize view obstructions) or an appropriate wildlife blind using high-power binoculars. This minimizes caracara disturbance and behavior alteration, and increases the probability of finding nest locations. Depending on the distance being surveyed, or the proximity of the caracara/nest being observed, it may also be acceptable for the observer to be adjacent to the vehicle if that affords better viewing. A spotting scope is essential when documenting behavior of caracaras and confirming nest tree locations that are far away. If this cannot be accomplished (e.g., due to visibility or vehicle access restrictions), the Service should be contacted to provide site-specific guidance.

Weather conditions must be adequate to clearly view the whole area. Surveys should not be conducted when it is rainy or foggy (Dwyer *et al*. 2012). Wind speed should be less than 12 miles per hour (19 kilometers per hour; Beaufort Number 3). Weather conditions and other important information must be recorded on field data sheets as itemized below (see Reporting).

During the survey, from a stationary position, search for caracara activity, including birds perched in trees or on sentinel posts, flying along roads or levees, or carrying nesting material or food. Watch for other birds, such as American crows (*Corvus brachyrhynchos*), red-tailed hawks (*Buteo jamaicensis*), red-shouldered hawks (*Buteo lineatus*), bald eagles (*Haliaeetus leucocephalus*), and turkey vultures (*Cathertes aura*), that might elicit an aggressive response from caracaras. Nesting caracaras will often chase potential predators away from the nest, thus revealing their presence. Also, vultures can indicate the presence of carrion that may attract caracaras. If the observer is near or on a road, pay attention to road-killed animals that may serve as forage for caracaras. If in a pasture, look for cow or calf carcasses on which caracaras may forage.

If a caracara is sighted, document its activity (*i.e.*, foraging, roosting, preening, territorial behavior, etc.) and location on an aerial map. If a caracara is in flight, document on the aerial map the direction the bird came from, the direction it is flying in, and if it is carrying nesting material or food. Make all reasonable efforts to track the bird to a potential nest location. If a potential nest tree is detected, then the observer can reposition to improve observation of the bird's behavior. All observer locations during a survey should be marked on the aerial. All caracara observations must be recorded on the field data sheets, including time of observation, number of birds, plumage (adult/juvenile), activity/behavior (*e.g.*, perching, foraging, feeding, preening, courtship or territorial display, etc.), and nest stage (building, incubating, nestlings, fledglings), if applicable. Corresponding caracara locations and flight paths must be marked and labeled on the aerial map. Also mark any potential or confirmed nest tree locations on the aerial photo, with GPS coordinates of the observation site and an estimate of the direction and distance of the nest from the observation point (a rangefinder may help to measure distance). Do not try to approach the nest as this may cause the caracara to abandon their nesting attempt. It may be possible to use a compass bearing from two different locations to triangulate the location of a nest tree that may be too far away and not near recognizable landmarks.

Survey sessions of each observation block must be repeated at two week intervals. Once a nest tree location is confirmed, report the location to the Service and transition to Productivity Surveys. In addition to location of nest trees, the survey data described above can be used to understand the use of the survey area (*e.g.*, as foraging or roosting habitat) by both breeding and non-breeding caracaras. Non-breeding caracaras can include both juveniles and adults. Detailed survey data are also useful in approximating boundaries of breeding territories, which is typically important to identifying the number of territories that may be impacted by a proposed project and the anticipated effect that proposed activities may have on a breeding

caracara pair. This is especially true for projects which are large in size or include habitat conversion. For more details on caracaras, see Service (1999) and Morrison and Dwyer (2012).

Conducting Productivity Surveys

Once a nest tree is confirmed or highly suspected, begin productivity surveys. These surveys involve the same repeated, two-week visits, but the surveyor need only observe the nest for the amount of time necessary to determine nest status (*i.e.,* incubating, nestlings, fledglings, or failed) and may survey the nest tree at any time during the day (assuming the weather conditions are appropriate). This will likely require much less effort per day than nest surveys. Many times, a spotting scope can be more useful than binoculars in observing activity in the nest that will indicate the nest status. As nesting progresses, the nestlings will become more active and easier to observe. Record the bird activity and number of nestlings. Record the fledging date and number of fledglings. From the fledging date, and previous observations, estimate the egg-laying date. If the nest appears to fail, continue surveying the nest tree area until April 30 as re-nesting may occur. If nests are deemed active on April 30, continue surveying those nest trees until they are either successful or have failed.

Reporting

An example field data sheet is provided at the end of this document, but observers may use their own data sheet format as long as the required information is collected. Requirements for final reports are as follows:

1. Map of field-verified habitat types within the project area and 1,500-m buffer;
2. Copies of marked aerial photo(s) showing all suitable habitat, with labeled observation blocks and their respective survey stations (including any alternate station locations used);
3. For each survey station, copies of any photos taken that document the field of view, nest tree or caracaras;
4. Documentation of efforts to contact adjacent landowners, and copies of access agreements, if applicable;
5. A summary table with the following information for each observer: name, hours of experience conducting caracara surveys (as of January 1), approximate number of caracara nests previously found, and whether the observer served as a primary or secondary observer;
6. Copies of all individual field data sheets which include the following information for each survey:
    - observation block/survey station identification,
    - survey date,
    - observer name(s),
    - observer location (*e.g.*, in a vehicle, blind, on foot),
    - start and end times,

- start and end weather conditions (temperature, wind speed and direction, cloud cover, visibility, and precipitation),
- caracara location/activity details including (for each observation):
  - time of observation,
  - number of birds,
  - plumage,
  - activity/behavior, and
  - nesting stage, if applicable, and
- an aerial map showing all observed caracara locations and flight paths (labeled to correspond with activity details) and any potential/confirmed nest tree locations; and

7. Location data (*e.g.*, latitude/longitude) for all caracara observations and potential/confirmed nest trees in Excel, projected shapefile (the preferred projection is Florida Albers NAD83 in meters), or .kml/.kmz format and attributed to include the information in (6) above.

Additional survey or reporting requirements may exist if the caracara surveys are required by a Service Biological Opinion (BO)(in this event, refer to the Terms and Conditions of the BO). For questions or additional guidance regarding the above survey protocol, please contact the Service's caracara lead biologist, Steve Schubert, at 772-469-4249 or 772-562-3909.

Literature Cited

Dwyer, J.F., and J.P. Dalla Rosa. 2015. Use of anthropogenic nest substrates by crested caracaras. Southeastern Naturalist 12(1):N10-N15.

Dwyer, J. F., J. L. Morrison, and J. D. Fraser. 2012. Factors influencing detection of nesting crested caracaras. The Journal of Wildlife Management 76(4):857–862.

Morrison, J. L. 2001. Recommended management practices and survey protocols for Audubon's crested caracaras (*Polyborus plancus audubonii*) in Florida. Technical Report No. 18. Florida Fish and Wildlife Conservation Commission. Tallahassee, Florida.

Morrison, J. L. 2007. Characteristics of nest sites used by crested caracaras in South-Central Florida. Florida Field Naturalist 35(1):1-8.

Morrison, J. L. and J. F. Dwyer. 2012. Crested Caracara (*Caracara cheriway*), The Birds of North America (P. G. Rodewald, Ed.). Ithaca: Cornell Lab of Ornithology. Retrieved from the Birds of North America: https://birdsna.org/Species-Account/bna/species/crecar1

U.S. Fish and Wildlife Service (Service). 1999. South Florida multi-species recovery plan. Atlanta, Georgia. http://www.fws.gov/verobeach/MSRPPDFs/AudubonsCrestedCaracara.pdf

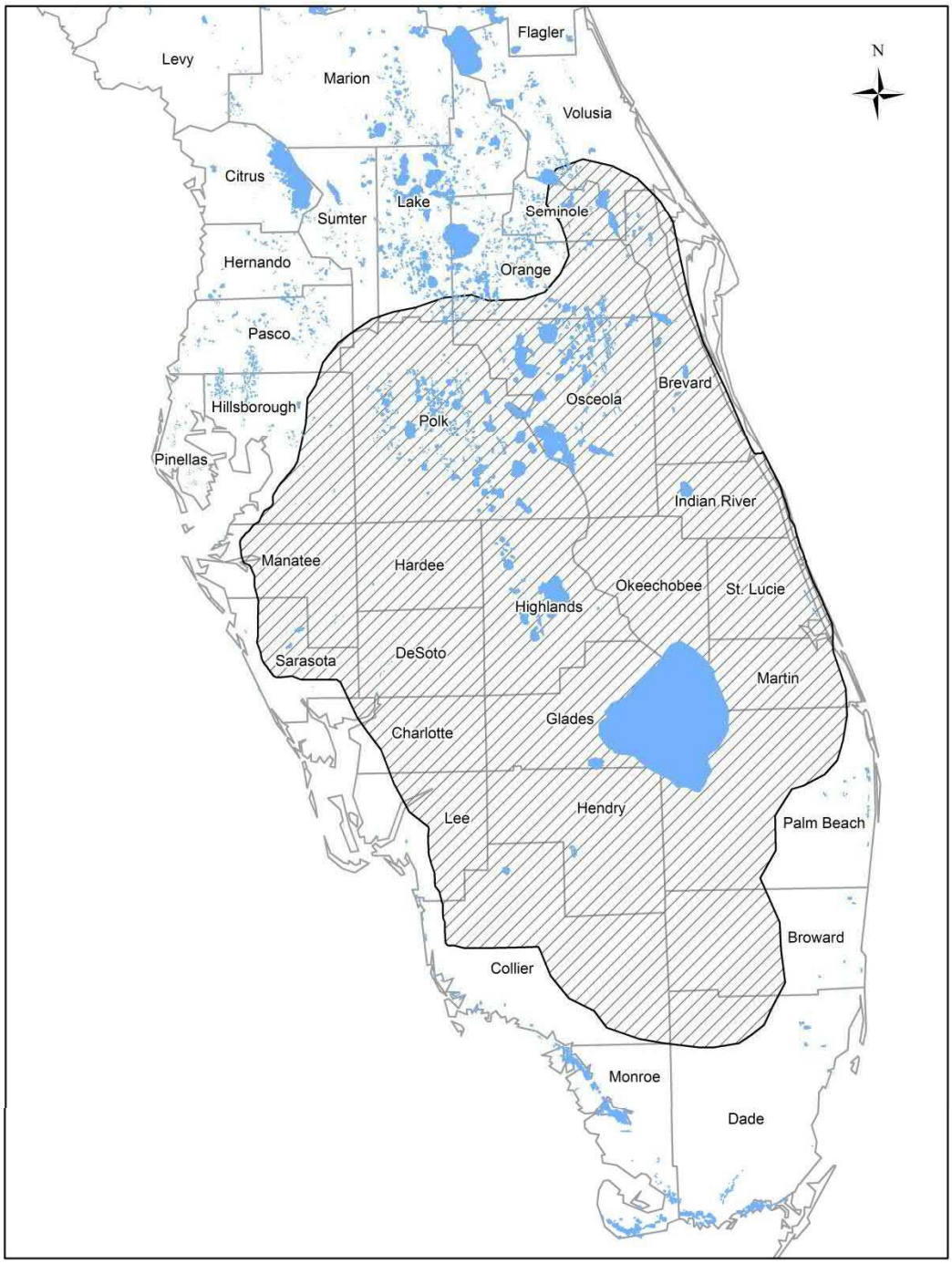


Figure 1. USFWS consultation area for crested caracara.

USFWS Crested Caracara Draft Survey Protocol –
Additional Guidance (2016-2017 Breeding Season)

Caracara Survey Form (updated 12/9/2016)

Project Name: _____

Location/Observation Block/Lat-Long:_____

Date	Start Time	Stop Time	Observer Name(s) and Experience Level(s)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:					
Finish:					

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Observations

(flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc

APPENDIX D

SHPO FLORIDA MASTER SITE FILE REPORT

This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at CompliancePermits@dos.MyFlorida.com for project review information.

March 15, 2021

Chloe Gossett
Kimley-Horn | 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411
Direct: 561 840 0217 | Mobile: 816 916 2233

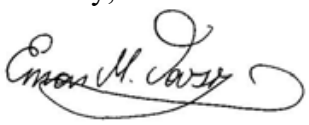
In response to your request on March 15, 2021, the Florida Master Site File lists two standing structures and one resource group recorded within 0.25 miles of the project area in St. Lucie County.

When interpreting the results of our search, please consider the following information:

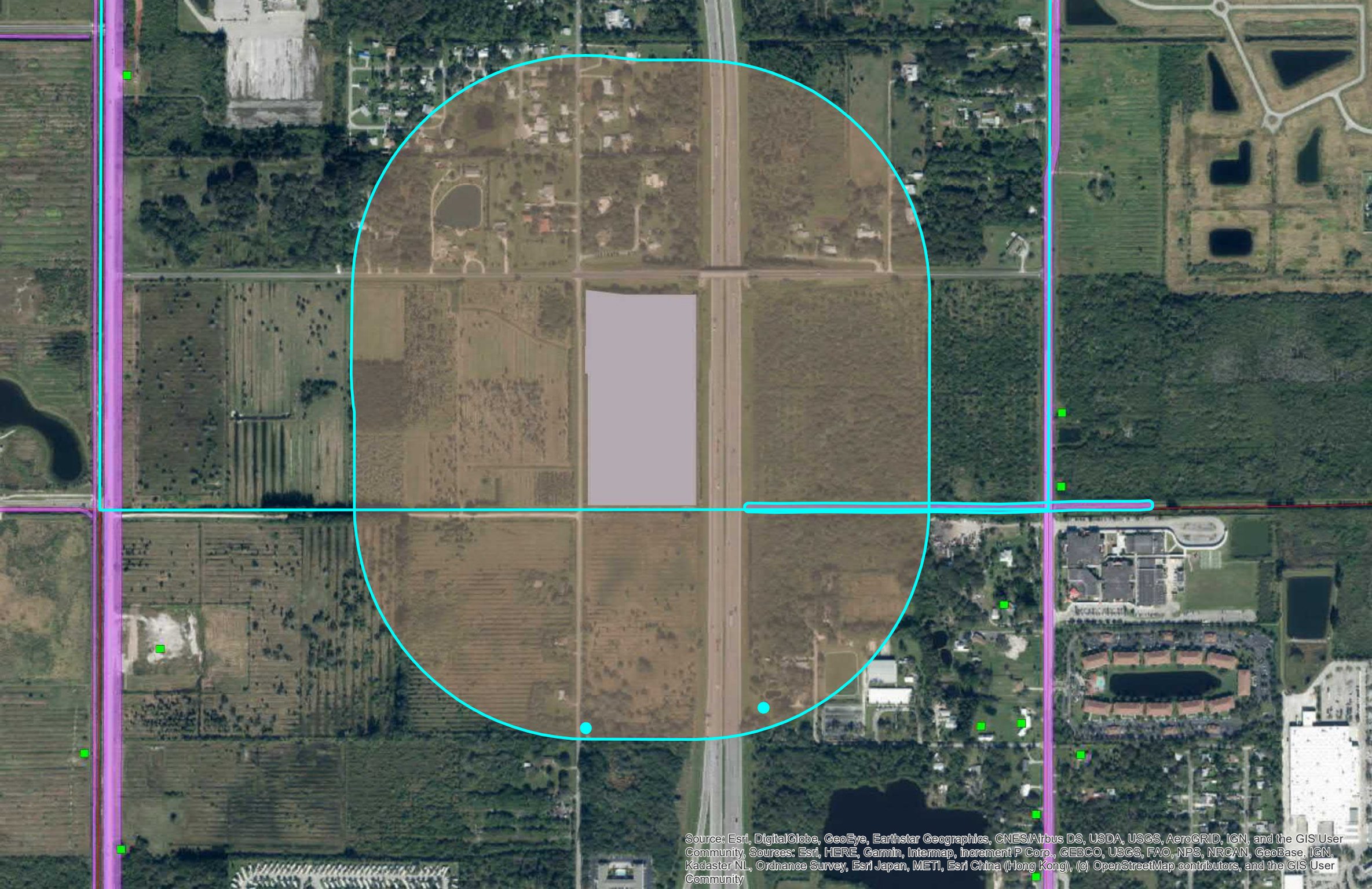
- **This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.**
- **Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.**
- **While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.**
- **Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at** CompliancePermits@dos.MyFlorida.com

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,



Eman M. Vovsi, Ph.D.
Florida Master Site File
Eman.Vovsi@DOS.MyFlorida.com


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

AR=0
SS=2
CM=0
RG=1
BR=0
Total=3

Cultural Resource Roster

SiteID	Type	Site Name	Address	Additional Info	SHPO Eval	NR Status
SL01399	SS	2398 Peter Road	2398 Peter RD, Fort Pierce G.V.	1941 Masonry Vernacular		
SL01774	SS	6105 Tedder Road	6105 Tedder RD W, Ft Pierce	c1958 Masonry Vernacular	Not Eligible	
SL03140	RG	Canal No. 37	Fort Pierce	Linear Resource - 1 Contrib Resources	Not Eligible	

TRAFFIC IMPACT ANALYSIS

FORT PIERCE RV STORAGE

CITY OF FORT PIERCE, FL

Prepared for:

MACRITCHIE, INC.

Prepared by:

KIMLEY-HORN AND ASSOCIATES, INC.

MARCH 2021

Kimley»Horn

TRAFFIC IMPACT ANALYSIS

FORT PIERCE RV STORAGE

CITY OF FORT PIERCE, FL

Prepared for:

MACRITCHIE, INC.

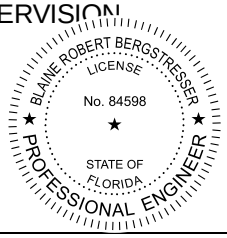
Prepared by:

KIMLEY-HORN AND ASSOCIATES, INC.

147814000
March 2021
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445 24th Street, Suite 200
Vero Beach, FL 32960

Kimley»Horn

THIS IS TO CERTIFY THAT THE ENCLOSED CALCULATIONS WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.



Blaine Bergstresser, P.E.

Florida Registration #84598

Kimley-Horn Registry #696

Date: _____

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APPENDICES

APPENDIX A: Conceptual Site Plan

APPENDIX B: GTCRPM Model Output

APPENDIX C: Turning Movement Counts

APPENDIX D: Intersection Volume Development Worksheets

APPENDIX E: Synchro (v10) Output

- AM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions
- PM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions

APPENDIX F: NCHRP Report 457 Output

INTRODUCTION

Kimley-Horn performed a traffic impact analysis (TIA) to support a Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in St. Lucie County, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The TIA evaluates traffic operational conditions and identifies transportation improvement needs within the study area under existing, future background, and future buildout traffic conditions. The analysis has been performed in accordance with St. Lucie County *Land Development Code Section 11.02.09* as adjacent roadway segments to the development are maintained by St. Lucie County.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it will not be evaluated because it will not be used in typical conditions. The access points are shown on the conceptual site plan provided in **Appendix A**.

This traffic analysis is based on traffic data collected in the field and supplemented by information obtained from St. Lucie County and Florida Department of Transportation (FDOT) sources. The study observed the established procedures found in Institute of Transportation Engineers (ITE) sources, FDOT sources, and the *Highway Capacity Manual 6* (HCM 6).

PROJECT TRIP GENERATION

Trip generation for the development was determined using data found in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, Tenth Edition. ITE land use code (LUC) 151 (Mini-Warehouse) was applied in the trip generation calculations using storage units as the independent variable.

The trip generation for the development is anticipated to be 91 daily net existing trips, 6 AM (3 in, 3 out) peak hour net new external trips, and 10 PM (5 in, 5 out) peak hour trips upon buildout. **Table 1** illustrates the trip generation calculations for the site.

Table 1 - Trip Generation of Proposed Development

Land Use	Intensity	Daily Trips	AM Peak Hour of Adjacent Street			PM Peak Hour of Adjacent Street		
			Total	In	Out	Total	In	Out
Proposed Development Mini-Warehouse (RV Storage)	503 Units	91	6	3	3	10	5	5
TOTAL NET EXISTING TRIPS		91	6	3	3	10	5	5

Trip Generation was calculated using the data from ITE's Trip Generation Manual, 10th Edition

Mini-Warehouse [ITE 151]

Daily	T = 18.86(x) - 4.09 (X/100 is number of storage units)
AM Peak Hour of Adjacent Street	T = 1.98(X) - 3.79; (X/100 is number of storage units); (51% in/49% out)
PM Peak Hour of Adjacent Street	T = 1.52(X) + 2.02; (X/100 is number of storage units); (50% in/50% out)

TRIP DISTRIBUTION, ASSIGNMENT, AND STUDY AREA

Projected traffic demand of project trips on study roadways was derived with use of the adopted regional travel demand model. Land use data for the project was entered into a new traffic analysis zone (TAZ) within the Greater Treasure Coast Regional Planning Model (GTCRPM) set and situated within the existing roadway network to appropriately represent project access. The model was used to assign trips for all trip purposes between allocated origin and destination pairs using project buildout year model data. Trip distribution for the project was extracted from the completed model assignment and reviewed for logic. The resulting model plots showing percent of daily project distribution are provided in **Appendix B**.

The study area was determined based on the St. Lucie County *Land Development Code Section 11.02.09*, which states that the study area should include all major roadways within 2.0-mile radius of the site. To determine roadway segments to be included in the TIA, a 1.0% significance test was performed for all major roadway segments within a 1.0-mile radius of the project site. Roadway segments that have less than 1.0% impact from the proposed development would be considered deminimis and will not be included within the roadway study area. The percent significance for project trips was determined by comparing the maximum directional peak hour project trips to the directional peak hour service capacity as provided the latest St. Lucie Transportation Planning Organization (TPO) Traffic Counts and Level of Service Report. Therefore, the following roadway segments were included within the project's study area:

- Copenhaver Road, from Graham Road to White Road

In addition to the above noted roadway segments, the following intersections are included within the study area:

- Graham Road & Copenhaver Road (unsignalized)
- Copenhaver Road & Project Driveway (unsignalized)

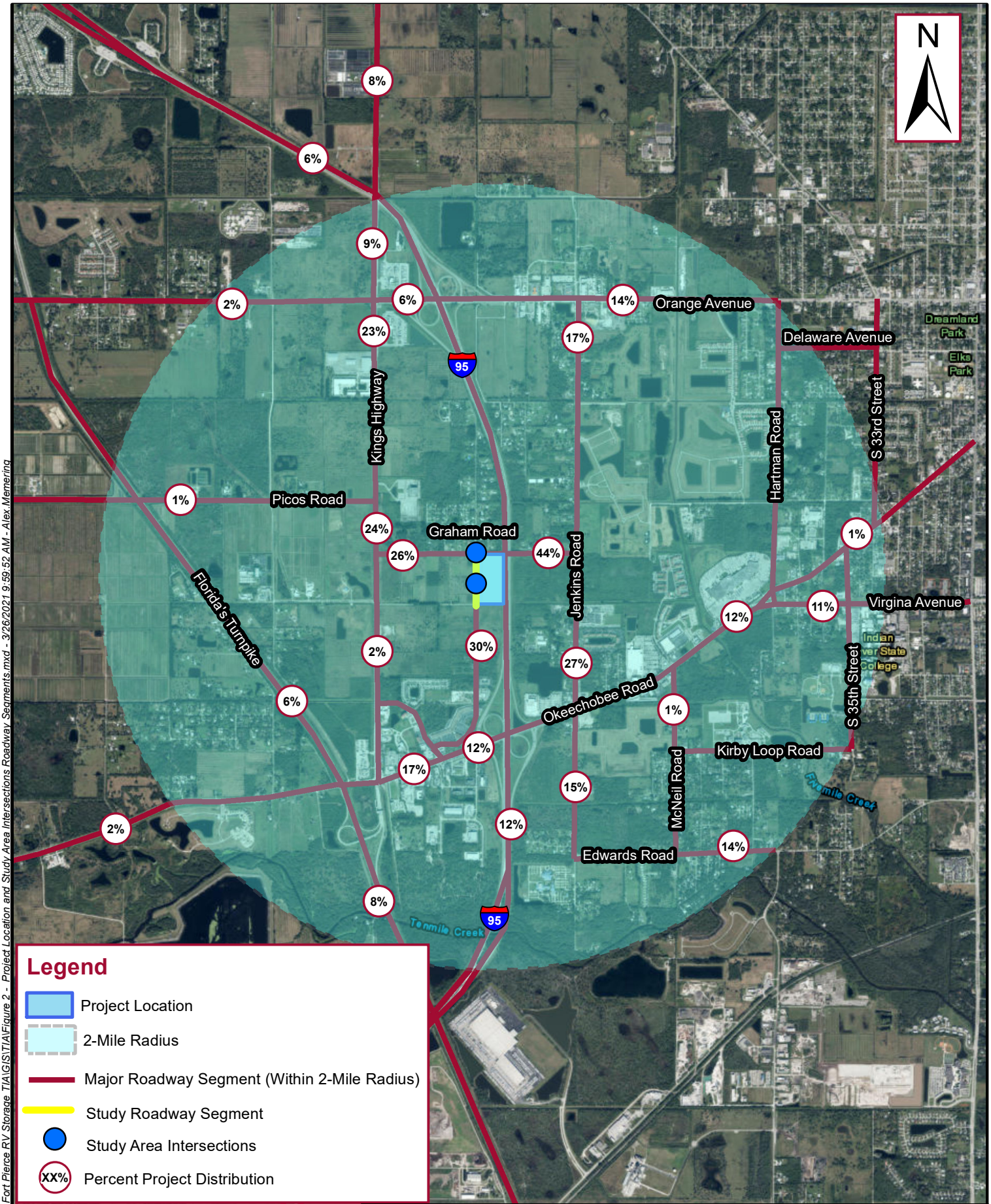
Table 2 illustrates the project impacts on roadways within a 2-mile radius per St. Lucie County Land Development Code 11.02.09 and the proposed study area. The site location, trip distribution, and study area for the traffic analysis is illustrated in **Figure 1**.

Table 2 – Study Area Determination

Roadway		Roadway Attributes [1]				Peak Hour Directional Maximum Service Volume [2]	PM Peak Hour Project Traffic				Significant Impact? [5]	Include In Study Area? [6]
From	To	Functional Classification	Area Type	Adopted LOS	Number of Lanes		% Assign [3]	NB / EB	SB / WB	Max % Impact [4]		
Copenhaver Road												
Graham Road	White Road	Local	U	D	2U	675	70.0%	4	4	0.59%	No	Yes [7]
Crossroads Parkway												
Okeechobee Road	Kings Highway	Local	U	D	2U	790	2.0%	0	0	0.00%	No	No
Delaware Avenue												
Hartman Road	S 33rd Street	Minor Collector	U	D	2U	600	2.0%	0	0	0.00%	No	No
Florida's Turnpike (SR 91)												
Orange Avenue	Okeechobee Road	Expressway	U	B	4D	2,260	6.0%	0	0	0.00%	No	No
Okeechobee Road	Glades Cut-Off Road	Expressway	U	D	4D	3,660	8.0%	0	0	0.00%	No	No
Graham Road												
Kings Highway	Jenkins Road	Local	U	D	2U	630	44.0%	2	2	0.32%	No	No
Hartman Road												
Okeechobee Road	Peterson Road	Minor Arterial	U	D	2U	750	0.0%	0	0	0.00%	No	No
Peterson Road	Deleware Avenue	Minor Arterial	U	D	2U	540	0.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Minor Arterial	U	D	2U	790	2.0%	0	0	0.00%	No	No
I-95												
Midway Road	Okeechobee Road	Interstate	U	C	6D	4,580	12.0%	1	1	0.02%	No	No
Okeechobee Road	Orange Avenue	Interstate	U	D	8D	7,320	0.0%	0	0	0.00%	No	No
Jenkins Road												
Edwards Road	Okeechobee Road	Minor Arterial	U	D	2U	880	15.0%	1	1	0.11%	No	No
Okeechobee Road	Graham Road	Minor Arterial	U	D	2U	920	27.0%	1	1	0.11%	No	No
Graham Road	Peterson Road	Minor Arterial	U	D	2U	630	17.0%	1	1	0.16%	No	No
Peterson Road	Orange Avenue	Minor Arterial	U	D	2U	920	14.0%	1	1	0.11%	No	No
Kings Highway												
Okeechobee Road	Crossroads Parkway	Principal Arterial	U	D	2U	830	0.0%	0	0	0.00%	No	No
Crossroads Parkway	Graham Road	Principal Arterial	U	D	2U	660	2.0%	0	0	0.00%	No	No
Graham Road	Picos Road	Principal Arterial	U	D	2U	660	24.0%	1	1	0.15%	No	No
Picos Road	Orange Avenue	Principal Arterial	U	D	2U	830	23.0%	1	1	0.12%	No	No
Orange Avenue	Angle Road	Principal Arterial	U	D	2U	870	9.0%	0	0	0.00%	No	No
Kirby Loop Road												
Edwards Road	35th Street	Minor Collector	U	D	2U	630	0.0%	0	0	0.00%	No	No
McNeil Road												
Okeechobee Road	Kirby Loop Road	Major Collector	U	D	2U	790	1.0%	0	0	0.00%	No	No
Kirby Loop Road	Edwards Road	Major Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Okeechobee Road												
McCarty Road	Florida's Turnpike	Principal Arterial	R	B	4D	1,810	2.0%	0	0	0.00%	No	No
Florida's Turnpike	Kings Highway	Principal Arterial	U	C	4D	2,010	2.0%	0	0	0.00%	No	No
Kings Highway	Crossroads Parkway	Principal Arterial	U	D	6D	4,170	17.0%	1	1	0.02%	No	No
Crossroads Parkway	I-95	Principal Arterial	U	D	6D	4,170	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	6D	4,240	0.0%	0	0	0.00%	No	No
Jenkins Road	McNeil Road	Principal Arterial	U	D	6D	4,040	12.0%	1	1	0.02%	No	No
McNeil Road	Virginia Avenue	Principal Arterial	U	D	6D	3,170	12.0%	1	1	0.03%	No	No
Virginia Avenue	Hartman Road	Minor Arterial	U	D	4D	2,100	1.0%	0	0	0.00%	No	No
Hartman Road	35th St	Minor Arterial	U	D	4D	1,630	0.0%	0	0	0.00%	No	No
35th St	33rd St	Minor Arterial	U	D	4D	1,630	1.0%	0	0	0.00%	No	No
Orange Avenue												
Campbell Road	Kings Highway	Minor Arterial	R	D	2U	1,070	2.0%	0	0	0.00%	No	No
Kings Highway	I-95	Principal Arterial	U	D	4D	2,000	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	4D	2,000	0.0%	0	0	0.00%	No	No
Jenkins Road	Hartman Road	Principal Arterial	U	D	4D	2,000	14.0%	1	1	0.05%	No	No
Peters Road												
White Road	Crossroads Parkway	Local	U	D	2U	675	30.0%	2	2	0.30%	No	No
Picos Road												
Campbell Road	Kings Highway	Major Collector	U	D	2U	540	1.0%	0	0	0.00%	No	No
S 33rd Street												
Okeechobee Road	Deleware Avenue	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
S 35th Street												
Kirby Loop Road	Cortez Boulevard	Minor Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Cortez Boulevard	Virginia Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
Virginia Avenue	Okeechobee Road	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Virginia Avenue												
Okeechobee Road	Hartman Road	Principal Arterial	U	D	6D	3,020	11.0%	1	1	0.03%	No	No
Hartman Road	S 35th Street	Principal Arterial	U	D	6D	3,020	10.0%	1	1	0.03%	No	No
S 35th Street	S 25th Street	Principal Arterial	U	D	6D	3,020	9.0%	0	0	0.00%	No	No

Notes:

1. The roadway attributes were obtained from the latest St. Lucie County Level of Service Report (Fall/Winter 2019/2020), 2010 FDOT St. Lucie County Federal Functional Classification Map, City of Fort Pierce Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated based on Greater Treasure Coast Regional Plannig Model (GTCRPM) Plots.
4. Percent impact was calculated as the maximum PM peak hour directional project traffic divided by the directional service volume.
5. A 1% significance test was perfomed for all major roadway segments within 1.0-mile radius of the project site.
6. The study area includes all roadway segments impacted by 1.0% or more of project traffic within 1.0-mile radius of the project site. Roadway segments that experience less than 1.0% impact from project traffic are considered deminimis impacts and are not included within the roadway study area.
7. The adjacent roadway segment of Copenhaver Road from Graham Road to White Road will be included within the study area as this the first accessed roadway from the site.



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FIGURE 1 - STUDY AREA, PROJECT LOCATION, AND TRIP DISTRIBUTION

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

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Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - Project Location and Study Area Intersections Roadway Segments.mxd - 3/26/2021 9:59:52 AM - Alex.Memering

HISTORICAL GROWTH RATE

The University of Florida's Bureau of Economic and Business Research (BEBR) analyzes population growth trends in counties throughout the state, along with other statistical metrics. To determine a reasonable background growth rate for the study area, the medium BEBR growth rate for St. Lucie County was calculated.

The medium BEBR growth rate for Year 2025 is approximately 1.55%. Therefore, a 1.55% annual background growth rate was applied for use on all roadway segments in this analysis to provide conservative results. Table 3 illustrates the growth rate calculations per BEBR population trends. Growth rate calculations are provided in **Table 3**.

Table 3 – Growth Rate Calculations

County	BEBR Pop Estimate	BEBR Population Projections (April 1)		
	Apr 1, 2019	Range	2025	2025
St. Lucie County	309,359	Low	319,300	0.46%
		Medium	342,900	1.55%
		High	364,600	2.55%

Source: Bureau of Economic and Business Research (BEBR) *Projections of Florida*

COMMITTED IMPROVEMENTS

Based on the St. Lucie Transportation Planning Organization (TPO) 2045 Long Range Transportation Plan (LRTP), the TPO's Transportation Improvement Program (TIP), and the Florida Department of Transportation (FDOT) 5-year work program, no improvements were located within the study area of the development.

ROADWAY SEGMENT ANALYSIS

The study area roadway segments were evaluated for level of service (LOS) and volume-to-capacity (v/c) ratios based on 2021 existing, 2024 future background, and 2024 future buildout conditions during both the AM and PM peak hours. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. A peak season correctional factor from 2019 Florida Traffic Online was applied to the turning movement counts in order to grow the counts to typical peak season traffic conditions. The turning movement counts are provided in **Appendix C**.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard obtained from St. Lucie County and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Based on 2021 existing conditions roadway segment analysis, all study area roadway segments are shown to operate acceptably during both the AM and PM peak hour. The existing AM and PM peak hour traffic conditions is provided in **Table 4** and **Table 5**, respectively.

FUTURE 2024 BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The 2024 future background (without project) traffic volumes were developed by calculating the existing peak season traffic volumes and anticipated background growth applied through year 2024. An annual background growth rate of 1.55% was applied to the existing roadway segment volumes as previously calculated.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 6 and **Table 7** illustrate the 2024 future background (without project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 future background (without project) AM and PM peak hour traffic conditions.

FUTURE 2024 BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The 2024 buildout (with project) traffic volumes were calculated as the sum of the background traffic volumes and project traffic. AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 8 and **Table 9** illustrate the 2024 buildout (with project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 buildout (with project) AM and PM peak hour traffic conditions.

Table 4 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	43	27	0.06	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 5 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	41	47	0.07	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 6 – Future Buildout AM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				AM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	45	28	0.07	C	70.0%	2	2	47	30	0.07	C
Project Driveway	White Road	675	1.55%	45	28	0.07	C	30.0%	1	1	46	29	0.07	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

Table 7 – Future Buildout PM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				PM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	43	49	0.07	C	70.0%	4	4	47	53	0.08	C
Project Driveway	White Road	675	1.55%	43	49	0.07	C	30.0%	2	2	45	51	0.08	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

INTERSECTION CAPACITY ANALYSIS

Intersection analyses was performed for the intersections within the project's study area. The intersection was evaluated for 2021 existing, 2024 future background (without project), and 2024 future buildout (with project) traffic conditions during both the AM and PM peak hour. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. The turning movement counts are provided in **Appendix C**.

Intersection volume development worksheets detailing the future traffic development at the intersections are provided in **Appendix D**. The AM and PM peak hour intersection turning movement volumes at buildout for the study area intersections are illustrated in **Figure 2**.

2021 EXISTING TRAFFIC CONDITIONS ANALYSIS

Synchro (v10) software, which is based on *Highway Capacity Manual (2010*) was utilized to perform the intersection evaluations. Existing intersection geometry, peak hour factor and percent heavy vehicles (as obtained from the traffic counts) were input into Synchro (v10) for the analysis.

Table 8 details the intersection LOS results for 2021 existing traffic conditions. The study area intersection is shown to operate with an acceptable overall LOS and v/c ratio less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 8 – 2021 Existing Traffic Conditions Intersection Summary

Intersection	2021 Existing Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.7/11.2	0.07/0.07
PM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.2/11.0	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The intersection of Graham Road and Copenhaver Road within the study area was evaluated for 2024 future background (without project) traffic conditions. An annual background growth rate of 1.55% was applied to the existing peak season volumes as outlined previously. **Table 9** details the results of the intersection analysis considering 2024 future background (without project) traffic volumes. The study area intersection is shown to operate with acceptable LOS, delays, and v/c ratios less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 9 – 2024 Future Background Traffic Conditions Intersection Summary

Intersection	2024 Future Background Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.8/11.4	0.08/0.08
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.2/11.1	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The intersection and driveway within the study area was evaluated for 2024 buildout (with project) traffic conditions. Project traffic from the proposed development was added to the future background traffic volumes to calculate future buildout traffic volumes.

Table 10 details the results of the intersection analysis considering 2024 buildout (with project) traffic volumes. The study area intersection and project driveway are shown to operate with an acceptable level LOS and v/c ratio less than 1.0 upon buildout. Synchro 10 output is provided within **Appendix E**.

Table 10 – 2024 Future Buildout Traffic Conditions Intersection Summary

Intersection	2024 Future Buildout Conditions		
	Inter-section LOS	Inter-section Delay (S)	Inter-section V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.9/11.5	0.08/0.08
Copenhaver Road & Project Driveway	A	9.7	0.01
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.5/11.2	0.08/0.03
Copenhaver Road & Project Driveway	A	9.7	0.01

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

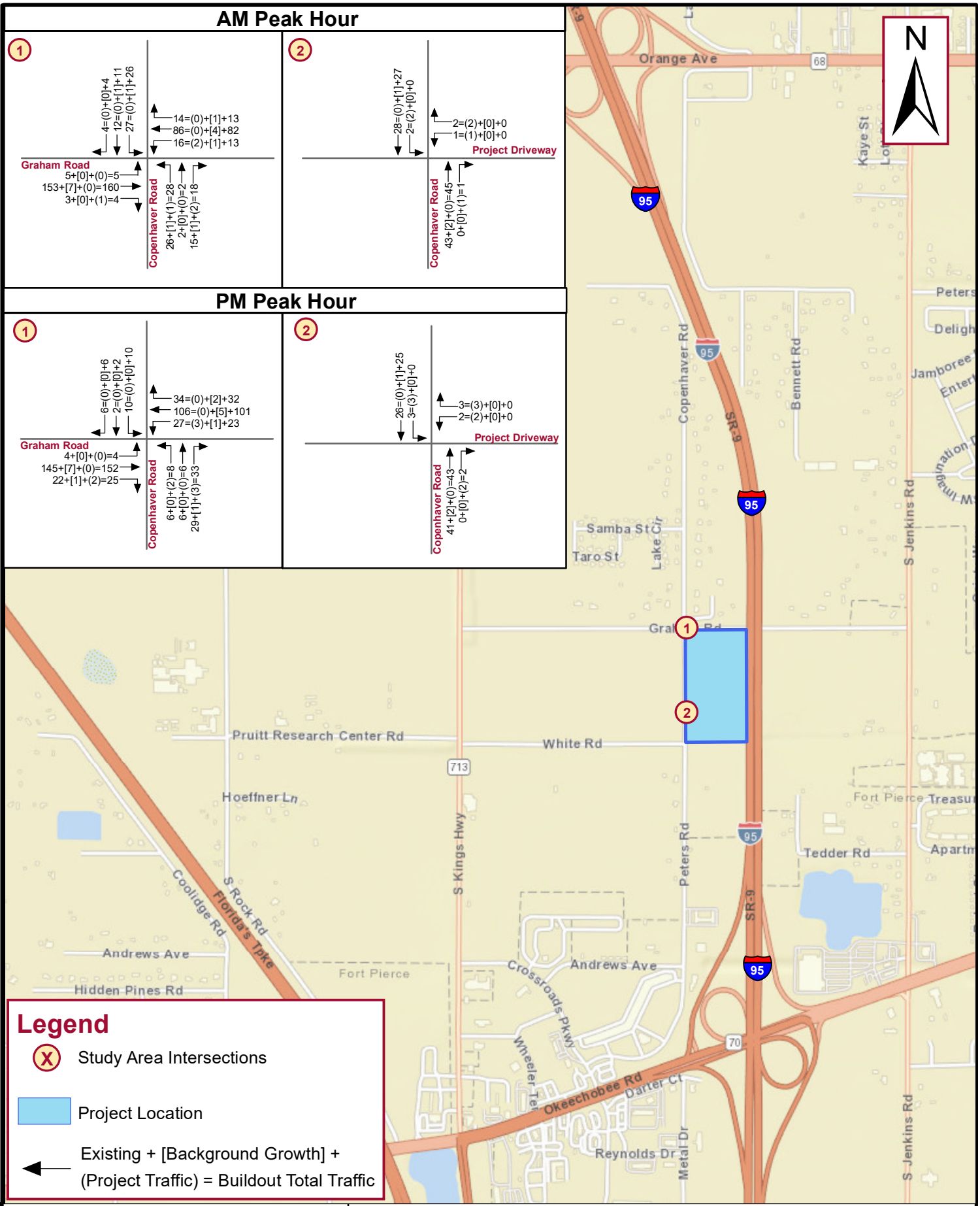


FIGURE 2 - AM & PM PEAK HOUR BUILDOUT TRAFFIC VOLUMES

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

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Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - AM PM Peak Hour Buildout Traffic Volumes.mxd - 3/26/2021 10:02:24 AM - Alex.Memering

SITE ACCESS ANALYSIS

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions.

PROJECT DRIVEWAY AT PROPOSED FULL ACCESS DRIVEWAY

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the National Cooperative of Highway Research Programs (NCHRP) Report 457 for determination of whether a major road left-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, opposing volume, and left-turning volume to determine whether a dedicated left-turn lane is warranted on the major street approach. Based on the low ingress left-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive southbound left-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the NCHRP Report 457 for determination of whether a major road right-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, and right-turning volume to determine whether a dedicated right-turn lane is warranted on the major street approach. Based on the low ingress right-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive northbound right-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The NCRHP Report 457 output for the southbound left-turn lane and northbound right-turn lane during the AM and PM peak hour are provided within **Appendix F**.

CONCLUSION

This traffic impact analysis was prepared to support the proposed Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in City of Fort Pierce, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The analysis concludes that all road segments and intersections within the study area are anticipated to operate with acceptable LOS during both AM and PM peak hour 2021 existing, 2024 future background (without project), and 2024 future buildout traffic conditions.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions. Based on the low ingress projected volumes at the project driveway on Copenhaver Road, no ingress turn lanes are warranted at the proposed project driveway.

The results within this report satisfy the requirements set forth by St. Lucie County for evaluating proposed development impacts.

APPENDICES

APPENDIX A:
Conceptual Site Plan

PRE-APP QUESTIONS:

1. WOULD THIS DEVELOPMENT TRIGGER A TRAFFIC STUDY?
2. WHAT ARE THE FIRE / LIFE SAFETY REQUIREMENTS? IN PARTICULAR, FOR SPRINKLERING OF THE CANOPIES OR IF FIRE HYDRANTS ARE REQUIRED AROUND THE SITE.
3. ARE THERE ANY OFF-SITE IMPROVEMENTS THAT ARE EXPECTED AS PART OF THIS DEVELOPMENT?
4. WHAT ARE THE SITE SCREENING AND SIGNAGE REQUIREMENTS. IN PARTICULAR, WE WOULD REQUEST VISIBILITY FROM I-95.

PROPOSED ENTRANCE
COPENHAVER RD
EMERGENCY SITE ACCESS ONLY
PROPOSED OFFICE
PROPOSED DUMP STATIONS
PROPOSED DUMPSTERS
PROPOSED PUMP ROOM
PROPOSED WASH STATIONS
PROPOSED DETENTION POND
TREE PROTECTION AREA
GRAHAM RD
PROPOSED SWALE
I-95

49
85
92
40
26
8
28
51
32

45.0'
40.0'

CANOPY SAMPLE



SITE DATA
SITE ADDRESS: 2192 COPENHAVER RD, FT PIERCE, FL
PARCEL ID: 2313432000000004

TOTAL SITE AREA: 17.375 AC
45' RV STORAGE: 443 SPACES
40' RV STORAGE: 60 SPACES
TOTAL RV STORAGE: 503 SPACES

ASSUMED ZONING: C-3 (GENERAL COMMERCIAL)

STORMWATER FACILITIES: ~3.74 AC
10-YR, 24-HOUR ASSUMED VOLUME: ≈8.57 AC-FT
25-YR, 72-HOUR ASSUMED VOLUME: ≈14.09 AC-FT

TREE PROTECTION AREA: ~3.03 AC

RV STORAGE - FT. PIERCE - CONCEPTUAL SITE PLAN

9 CANOPIES:
443 (11'X45') STALLS; 60 (11'X40' STALLS)

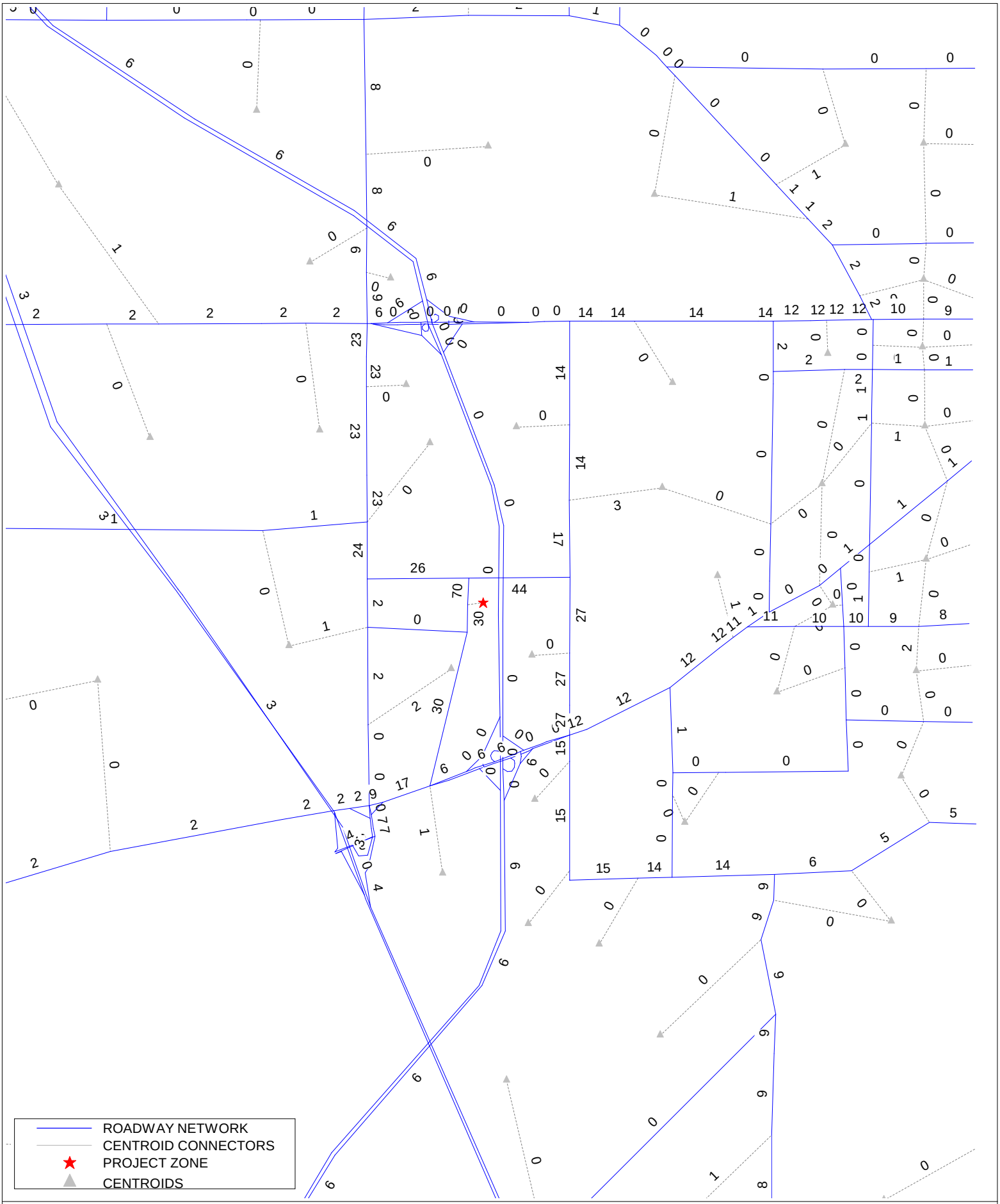
NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

DATE: 11/30/2020

Kimley»Horn

APPENDIX B:
GTCRPM Model Output



MODEL RUN - FORT PIERCE RV STORAGE
TRAFFIC DISTRIBUTION (PERCENTAGES)
3/1/2021
C:\FSUTMS\D4\GTCRPM\NGTC33\Base\minor mods\OUTPUT\FINAL_LOADED_A05.NET

cube

(Licensed to Kimley-Horn and Associates, Inc.)

APPENDIX C:
Turning Movement Counts

AM and PM peak hour turning movement counts were performed on March 11, 2021.

		Graham Road & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	1	0	2	8	0	1	0	28	1	3	16	2
2	7:15	2	0	5	5	3	1	0	44	0	4	15	1
3	7:30	9	1	3	8	3	1	0	41	0	5	26	1
4	7:45	7	0	4	2	3	2	4	38	1	0	20	8
5	8:00	8	1	3	11	2	0	1	30	2	4	21	3
6	8:15	0	0	5	3	0	0	0	29	1	8	21	2
7	8:30	5	0	2	4	0	2	0	25	1	3	16	2
8	8:45	1	0	7	9	1	0	0	19	1	3	13	5
AM Peak Hour: 7:15AM - 8:15AM				PHF	0.90								
	PH Vol.	26	2	15	26	11	4	5	153	3	13	82	13

		Graham Road & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	1	0	2	3	2	1	2	37	3	3	24	3
2	16:15	2	1	2	3	1	2	0	27	4	4	23	7
3	16:30	2	3	5	1	0	4	3	34	7	5	37	7
4	16:45	1	1	10	5	1	2	1	38	7	7	16	7
5	17:00	3	2	6	2	0	0	0	28	4	7	21	8
6	17:15	0	0	8	2	1	0	0	45	4	4	27	10
7	17:30	2	1	6	2	0	2	2	31	4	10	26	8
8	17:45	3	0	10	6	0	2	1	23	2	8	25	4
PM Peak Hour: 4:30PM - 5:30PM				PHF	0.89								
	PH Vol.	6	6	29	10	2	6	4	145	22	23	101	32

		Project Driveway & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	0	3	0	0	4	0	0	0	0	0	0	0
2	7:15	0	7	0	0	7	0	0	0	0	0	0	0
3	7:30	0	13	0	0	8	0	0	0	0	0	0	0
4	7:45	0	11	0	0	4	0	0	0	0	0	0	0
5	8:00	0	12	0	0	8	0	0	0	0	0	0	0
6	8:15	0	5	0	0	9	0	0	0	0	0	0	0
7	8:30	0	7	0	0	4	0	0	0	0	0	0	0
8	8:45	0	8	0	0	5	0	0	0	0	0	0	0
AM Peak Hour: 7:15AM - 8:15AM													
	PH Vol.	0	43	0	0	27	0	0	0	0	0	0	0

		Project Driveway & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	0	3	0	0	8	0	0	0	0	0	0	0
2	16:15	0	5	0	0	8	0	0	0	0	0	0	0
3	16:30	0	10	0	0	4	0	0	0	0	0	0	0
4	16:45	0	12	0	0	8	0	0	0	0	0	0	0
5	17:00	0	11	0	0	9	0	0	0	0	0	0	0
6	17:15	0	8	0	0	4	0	0	0	0	0	0	0
7	17:30	0	9	0	0	5	0	0	0	0	0	0	0
8	17:45	0	13	0	0	0	0	0	0	0	0	0	0
PM Peak Hour: 4:30PM - 5:30PM													
	PH Vol.	0	41	0	0	25	0	0	0	0	0	0	0

APPENDIX D:
Intersection Volume Development Worksheets

INTERSECTION VOLUME DEVELOPMENT

Graham Road & Copenhaver Road

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	26	2	15	26	11	4	5	153	3	13	82	13
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	26	2	15	26	11	4	5	153	3	13	82	13
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	1	0	1	1	1	0	0	7	0	1	4	1
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	1		2						1	2		
2024 Background Traffic	27	2	16	27	12	4	5	160	3	14	86	14
2024 Total Traffic	28	2	18	27	12	4	5	160	4	16	86	14

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	6	6	29	10	2	6	4	145	22	23	101	32
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	6	6	29	10	2	6	4	145	22	23	101	32
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	0	1	0	0	0	0	7	1	1	5	2
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	2		3						2	3		
2024 Background Traffic	6	6	30	10	2	6	4	152	23	24	106	34
2024 Total Traffic	8	6	33	10	2	6	4	152	25	27	106	34

INTERSECTION VOLUME DEVELOPMENT

Copenhaver Road & Project Driveway

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	43	0	0	27	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	43	0	0	27	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			1	2						1		2
2024 Background Traffic	0	45	0	0	28	0	0	0	0	0	0	0
2024 Total Traffic	0	45	1	2	28	0	0	0	0	1	0	2

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	41	0	0	25	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	41	0	0	25	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			2	3						2		3
2024 Background Traffic	0	43	0	0	26	0	0	0	0	0	0	0
2024 Total Traffic	0	43	2	3	26	0	0	0	0	2	0	3

APPENDIX E:
Synchro (v10) Output

AM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Future Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	170	3	14	91	14	29	2	17	29	12	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	179	0	0	119	0	0	48	0	0	45	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Future Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	170	3	14	91	14	29	2	17	29	12	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	105	0	0	173	0	0	318	317	172	319	311	98
Stage 1	-	-	-	-	-	-	184	184	-	126	126	-
Stage 2	-	-	-	-	-	-	134	133	-	193	185	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1486	-	-	1404	-	-	635	599	872	634	604	958
Stage 1	-	-	-	-	-	-	818	747	-	878	792	-
Stage 2	-	-	-	-	-	-	869	786	-	809	747	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1486	-	-	1404	-	-	615	590	872	613	595	958
Mov Cap-2 Maneuver	-	-	-	-	-	-	615	590	-	613	595	-
Stage 1	-	-	-	-	-	-	815	744	-	874	783	-
Stage 2	-	-	-	-	-	-	842	777	-	788	744	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.7	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	684	1486	-	-	1404	-	-	630
HCM Lane V/C Ratio	0.07	0.004	-	-	0.01	-	-	0.072
HCM Control Delay (s)	10.7	7.4	0	-	7.6	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.2

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Future Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	178	3	16	96	16	30	2	18	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	128	0	0	50	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Future Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	178	3	16	96	16	30	2	18	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	337	336	180	338	329	104
Stage 1	-	-	-	-	-	-	192	192	-	136	136	-
Stage 2	-	-	-	-	-	-	145	144	-	202	193	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1394	-	-	617	585	863	616	590	951
Stage 1	-	-	-	-	-	-	810	742	-	867	784	-
Stage 2	-	-	-	-	-	-	858	778	-	800	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1394	-	-	595	575	863	594	580	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	595	575	-	594	580	-
Stage 1	-	-	-	-	-	-	806	738	-	863	775	-
Stage 2	-	-	-	-	-	-	829	769	-	777	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.8	11.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	668	1478	-	-	1394	-	-	611
HCM Lane V/C Ratio	0.075	0.004	-	-	0.011	-	-	0.078
HCM Control Delay (s)	10.8	7.4	0	-	7.6	0	-	11.4
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.3

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Future Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	2%	25%	13%	2%	2%	4%	2%	11%	2%	2%	2%
Adj. Flow (vph)	6	178	3	18	96	16	31	2	20	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	130	0	0	53	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Future Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	25	13	2	2	4	2	11	2	2	2
Mvmt Flow	6	178	3	18	96	16	31	2	20	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	341	340	180	343	333	104
Stage 1	-	-	-	-	-	-	192	192	-	140	140	-
Stage 2	-	-	-	-	-	-	149	148	-	203	193	-
Critical Hdwy	4.12	-	-	4.23	-	-	7.14	6.52	6.31	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.317	-	-	3.536	4.018	3.399	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1331	-	-	609	582	840	611	587	951
Stage 1	-	-	-	-	-	-	805	742	-	863	781	-
Stage 2	-	-	-	-	-	-	849	775	-	799	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1331	-	-	587	571	840	586	576	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	587	571	-	586	576	-
Stage 1	-	-	-	-	-	-	801	738	-	859	770	-
Stage 2	-	-	-	-	-	-	819	764	-	774	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.9	11.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	661	1478	-	-	1331	-	-	605
HCM Lane V/C Ratio	0.081	0.004	-	-	0.013	-	-	0.079
HCM Control Delay (s)	10.9	7.4	0	-	7.7	0	-	11.5
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.3



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	2	45	1	2	28
Future Volume (vph)	1	2	45	1	2	28
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	1	2	50	1	2	31
Shared Lane Traffic (%)						
Lane Group Flow (vph)	3	0	51	0	0	33
Sign Control	Stop		Free			Free

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	2	45	1	2	28
Future Vol, veh/h	1	2	45	1	2	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	1	2	50	1	2	31

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	86	51	0	0	51	0
Stage 1	51	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	722	797	-	-	1104	-
Stage 1	771	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	721	797	-	-	1104	-
Mov Cap-2 Maneuver	721	-	-	-	-	-
Stage 1	771	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	770	1104	-
HCM Lane V/C Ratio	-	-	0.004	0.002	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

PM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Future Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	163	25	26	113	36	7	7	33	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	192	0	0	175	0	0	47	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Future Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	163	25	26	113	36	7	7	33	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	149	0	0	188	0	0	372	385	176	387	379	131
Stage 1	-	-	-	-	-	-	184	184	-	183	183	-
Stage 2	-	-	-	-	-	-	188	201	-	204	196	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1432	-	-	1386	-	-	585	549	867	572	553	919
Stage 1	-	-	-	-	-	-	818	747	-	819	748	-
Stage 2	-	-	-	-	-	-	814	735	-	798	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1432	-	-	1386	-	-	568	536	867	535	540	919
Mov Cap-2 Maneuver	-	-	-	-	-	-	568	536	-	535	540	-
Stage 1	-	-	-	-	-	-	816	745	-	817	732	-
Stage 2	-	-	-	-	-	-	789	720	-	759	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	743	1432	-	-	1386	-	-	622
HCM Lane V/C Ratio	0.062	0.003	-	-	0.019	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.6	0	-	11
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Future Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	171	26	27	119	38	7	7	34	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	201	0	0	184	0	0	48	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

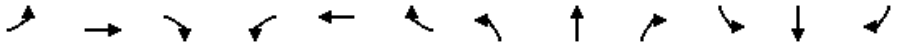
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Future Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	171	26	27	119	38	7	7	34	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	197	0	0	389	403	184	405	397	138
Stage 1	-	-	-	-	-	-	192	192	-	192	192	-
Stage 2	-	-	-	-	-	-	197	211	-	213	205	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1376	-	-	570	536	858	556	540	910
Stage 1	-	-	-	-	-	-	810	742	-	810	742	-
Stage 2	-	-	-	-	-	-	805	728	-	789	732	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1376	-	-	553	523	858	519	527	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	553	523	-	519	527	-
Stage 1	-	-	-	-	-	-	808	740	-	808	726	-
Stage 2	-	-	-	-	-	-	779	712	-	749	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11.1
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	733	1423	-	-	1376	-	-	607
HCM Lane V/C Ratio	0.064	0.003	-	-	0.02	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.7	0	-	11.1
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Future Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	2%	2%	8%	11%	2%	2%	25%	2%	9%	2%	2%	2%
Adj. Flow (vph)	4	171	28	30	119	38	9	7	37	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	203	0	0	187	0	0	53	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Future Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	8	11	2	2	25	2	9	2	2	2
Mvmt Flow	4	171	28	30	119	38	9	7	37	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	199	0	0	396	410	185	413	405	138
Stage 1	-	-	-	-	-	-	193	193	-	198	198	-
Stage 2	-	-	-	-	-	-	203	217	-	215	207	-
Critical Hdwy	4.12	-	-	4.21	-	-	7.35	6.52	6.29	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.299	-	-	3.725	4.018	3.381	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1321	-	-	525	531	840	549	535	910
Stage 1	-	-	-	-	-	-	759	741	-	804	737	-
Stage 2	-	-	-	-	-	-	749	723	-	787	731	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1321	-	-	508	516	840	508	520	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	508	516	-	508	520	-
Stage 1	-	-	-	-	-	-	757	739	-	802	719	-
Stage 2	-	-	-	-	-	-	723	705	-	743	729	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.3	10.5	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	705	1423	-	-	1321	-	-	598
HCM Lane V/C Ratio	0.075	0.003	-	-	0.023	-	-	0.034
HCM Control Delay (s)	10.5	7.5	0	-	7.8	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	3	43	2	3	26
Future Volume (vph)	2	3	43	2	3	26
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	2	3	48	2	3	29
Shared Lane Traffic (%)						
Lane Group Flow (vph)	5	0	50	0	0	32
Sign Control	Stop		Free			Free

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	3	43	2	3	26
Future Vol, veh/h	2	3	43	2	3	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	2	3	48	2	3	29

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	84	49	0	0	50	0
Stage 1	49	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	724	800	-	-	1105	-
Stage 1	773	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	722	800	-	-	1105	-
Mov Cap-2 Maneuver	722	-	-	-	-	-
Stage 1	773	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.9
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	767	1105	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

APPENDIX F:
NCHRP Report 457 Output

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

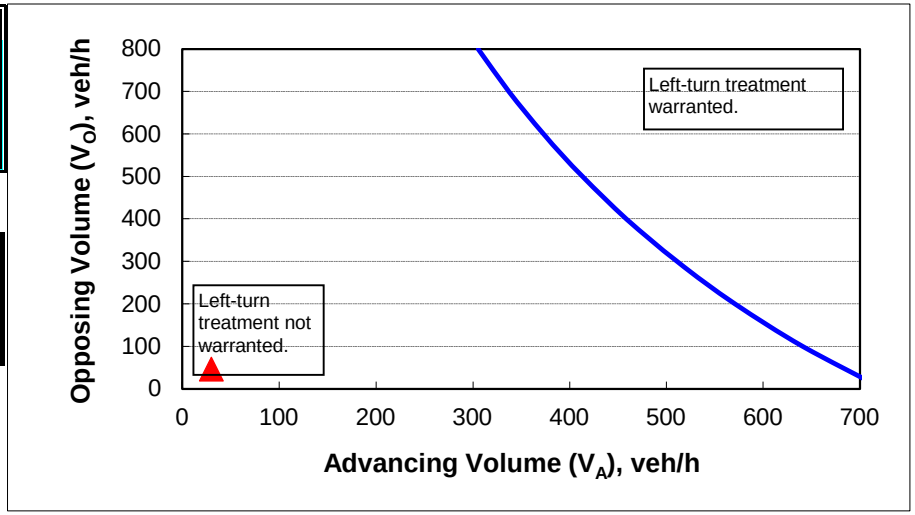
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	7%
Advancing volume (V_A), veh/h:	30
Opposing volume (V_O), veh/h:	46

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	684
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

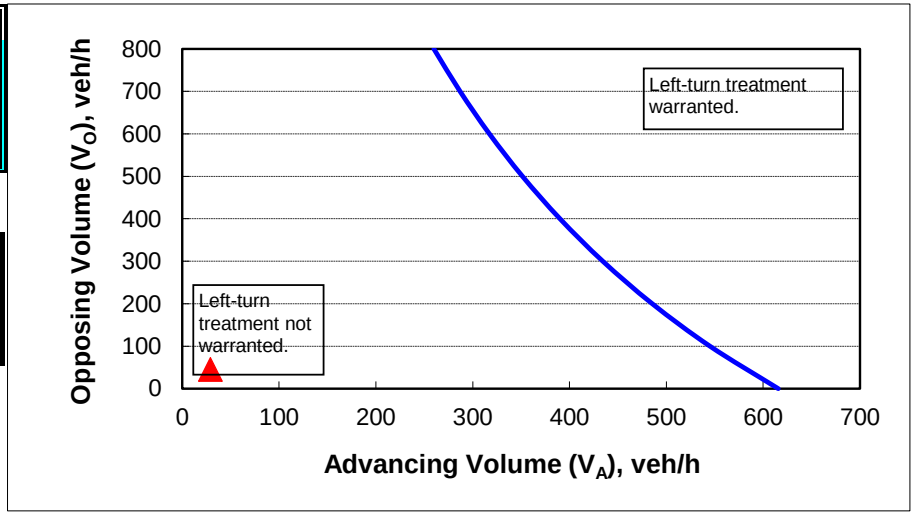
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	10%
Advancing volume (V_A), veh/h:	29
Opposing volume (V_O), veh/h:	45

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	582
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
AM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

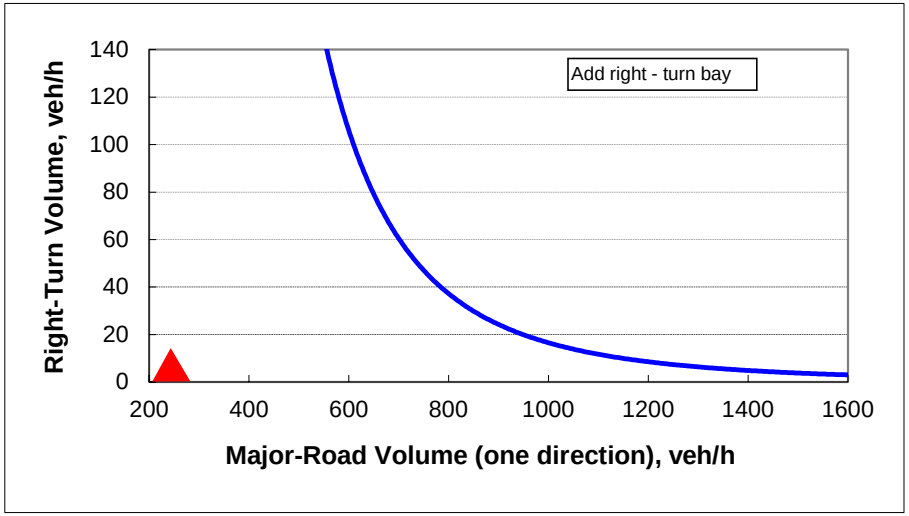
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	45
Right-turn volume, veh/h:	1

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1304659
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
PM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

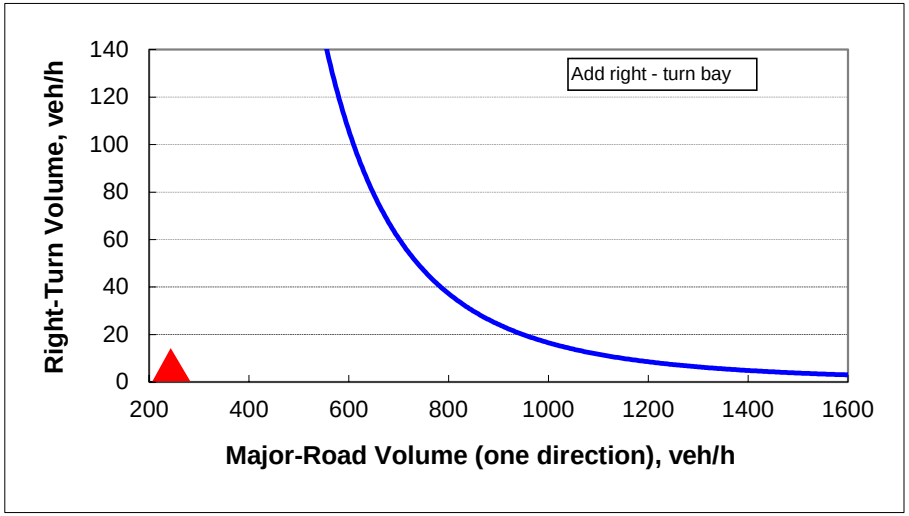
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	43
Right-turn volume, veh/h:	2

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1539188
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Fort Pierce RV Storage
CONCEPTUAL Drainage Report
Fort Pierce, FL
Drainage Report
KHA No: 147814000

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32960

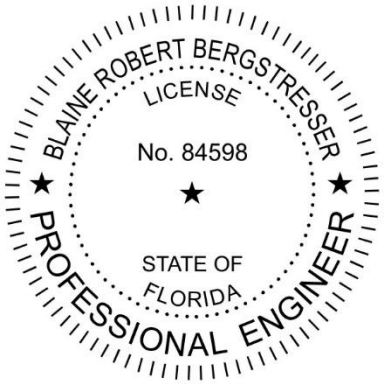
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Kimley-Horn Project #: 147814000

FORT PIERCE RV STORAGE
FORT PIERCE, FL
DRAINAGE SUMMARY

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32962

This item has been digitally signed and sealed by Blaine Bergstresser, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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A. VICINITY MAPS

- General Location Map
- NRCS Soil Resource Report
- FEMA F.I.R.M.
- SFWMD Rainfall Maps

B. PRE-DEVELOPMENT CALCULATIONS

- Curve Number Calculations
- Time of Concentration Calculations
- Runoff Calculations
- Stage Storage Calculations
- Water Quality and Treatment Volume

C. POST-DEVELOPMENT CALCULATIONS

- Estimated Curve Number Calculations
- Estimated Runoff Calculations

D. SUPPORTING DOCUMENTATION

- Existing SFWMD ERP #56-100483-P

Kimley»Horn

FORT PIERCE RV STORAGE
Drainage Summary

INTRODUCTION

The drainage report is prepared to present the design of the storm water management system to serve the proposed Fort Pierce RV Storage project in Fort Pierce, FL.

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land. The site was originally used as pastureland for cattle, now the site contains agricultural pastures and woodlands. The proposed development consists of approximately 503 total RV storage spaces and 3.03 acres of proposed tree protection area at the Northwest corner of the site.

All elevations shown herein are shown in NAVD 88 unless otherwise noted.

SITE LOCATION

The general location of the proposed project site in Section 13, Township 35 South, Range 39 East in the City of Fort Pierce, St. Lucie County, Florida. The site is located at the corner of Peters Road and Graham Road to the west of Interstate 95. See **Appendix A** for General Location Map.

EXISTING SITE DESCRIPTION

A. EXISTING SITE AREA SUMMARY

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land that contains woodlands and agricultural pastures.

Below is the summary of the pre-development impervious and pervious areas:

Table 1:

Pre-Development Site:	**Onsite**
Pavement	0.00 ac
Total Impervious area (A)	**0.00 ac**
Pervious Area	17.38 ac
Total Pervious area (B)	**17.38 ac**
Total Site Area (A + B)	**17.38 ac**
% Total Impervious	**0.00%**
% Pervious	**100.00%**

B. TOPOGRAPHY

Survey data shows average existing site grades range from approximately +/- 13.0 ft to +/- 18.0 ft. with an average existing site grade of approximately +/- 14.0 ft. The sight slopes south with the high points on site being located to the north by the existing wooded area. There is a an existing swale located in the center of the site approximately

100 feet south of the wooded area border that runs south through the property and into the bordering canal (NSLRWCD Canal No. 37).

C. EXISTING LAND USE

The total land area of the project is +/- 17.38 acres and the vacant land consists of undeveloped gently sloping woodlands and agricultural pastures.

D. SOILS

The Soil Survey for this site located within Fort Pierce, Florida, as prepared by the United States Department of Agriculture (USDA), Natural Resource Conversation Service (NRCS), indicates the near surface soils consist of the following soils. Andreyev Engineering, Inc. (AEI) performed a geotechnical engineering investigation for the proposed site. See **Appendix G** for geotechnical report.

- Chobee Loamy Sand (#11) – Hydrologic Group C/D
- Wabasso Sand (#48) – Hydrologic Group C/D
- Winder Loamy Sand (#55) – Hydrologic Group C/D

E. EXISTING DRAINAGE PATTERN

The undeveloped site has one distinct drainage pattern, a large swale in the center of the site. The onsite runoff and discharge are collected via the onsite swale and ultimately discharged into the bordering NSLRWCD Canal No. 37. There is also a portion of the western portion of the site that discharges into the surrounding offsite swales along Peters Road, but these onsite swales ultimately discharge into the canal as well. Please refer to **Appendix C** for the Basin Map.

F. CURVE NUMBER

The site primarily contains Hydrologic Type “C/D” soil. A CN value of 80 was assumed for pervious areas and a CN value of 98 was assumed for impervious areas. Weighted CN values were calculated for each drainage basin as shown in Table 2 below. The CN calculations for the pre-development conditions can be found in **Appendix B**

G. TIME OF CONCENTRATION

The time of concentration (Tc) for the onsite basin was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 2 below. The Tc calculations for the pre-development conditions can be found in **Appendix B**.

Table 3:

Pre-Development Site:	Basin Area (ac)	Tc (min)	CN
Onsite	17.448	70.18	80

H. FLOOD PLAIN COMPENSATION

The site is in Flood Zone X per FEMA. Flood Zone X states that the area was determined to be outside the 0.2% annual chance floodplain.

PROPOSED SITE DESCRIPTION

A. PROPOSED SITE AREA SUMMARY

The proposed site shall consist of a 503 RV storage spaces with canopies, a small office building, a fenced tree protection area, one dry detention pond and one wet detention pond. The stormwater design implemented for the site shall consist of a dry pond located along the eastern border that collects the stormwater from the site and channels it into the southern wet detention pond. The wet detention pond will consist of approximately 3.52 acres and will contain a control structure to limit discharge into the bordering NSLRWCD Canal 37.

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall event. For the proposed site, this comes out to 7.65 ac-ft in any 24-hour period. The criteria for the limited discharge rates was based on the drainage connection requirements set forth by North St. Lucie River Water Canal District.

Below are the estimates of the post-development impervious and pervious areas:

Table 4:

Post-Development Site:	**Onsite Basin**
Pavement	9.51 ac
Building	0.02 ac
Water Surface (Top of Bank)	3.615 ac
Total Impervious Area (A)	**13.145 ac**
Pervious Area	4.30 ac
Total Pervious Area (B)	**4.30 ac**
Total Site Area (A+B)	**17.45 ac**
% Total Impervious	**75.34%**
% Pervious	**24.66%**

B. POST DEVELOPMENT BASINS

The post development site can be described as having one distinct drainage basin. The existing basin pattern is consistent with the proposed post development drainage basin pattern, where the onsite runoff will discharge into the dry/wet ponds before ultimately discharging into the adjacent NSLRWCD Canal 37.

C. CURVE NUMBER

The post-development consists of a "full buildout" of the site. A CN value of 98 was used for all impervious area. A CN value of 80 was used for all pervious area. Please see attached CN calculations in **Appendix D**.

D. TIME OF CONCENTRATION

Time of concentration (Tc) for the onsite area was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 4 below. The Tc value was less than the minimum allowable Tc, therefore a Tc value of 10 minutes was used for the onsite and offsite roadway. Please see attached Tc calculations in **Appendix D**.

E. REQUIRED TREATMENT VOLUME (TV)

The proposed system is to provide sufficient water quality treatment per the City of Fort Pierce and SFWMD ERP criteria. The proposed stormwater design is to provide storage for the greater of 1 inch of runoff for the total drainage area or 2.5 inches for the total impervious area. This was determined to be 2.511 ac-ft for the onsite basin based on an overall site basin area of 17.45 acres with an estimated 69% impervious area.

Per SFWMD OFW criteria, the design water quality retention volume is to be 150% of the required treatment volume, which gives the proposed site a total required treatment volume of 3.767 ac-ft for the onsite basin.

The site is also required to provide 0.50 inches of dry pre-treatment over the site area for commercial development per SFWMD. Based on a total site area of 17.45 acres and estimated wet pond area of 3.52 acres, 0.57 acres of dry pre-treatment will be required for the site.

Table 6:

Post-Development:	Required TV	150% of TV (OFW)
Onsite	2.511 ac-ft	3.767 ac-ft

F. DISCHARGE RATES

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall. For the proposed site, this comes out to 7.65 acft in any 24-hour period. This limited discharge criteria are based on the drainage connection

requirements set forth by North St. Lucie River Water Canal District and is what the closest permitted existing site was approved at.

G. NSLWCD REQUIREMENTS

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the system will be required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition.

The proposed system will be designed to meet the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

CONCLUSION

Post-development offsite discharge rates are limited by the NSLRWCD criteria of 2.0 inches of depth over the area served for any 24-hour period from the 10 year-72-hour storm event for allowable discharge in to the bordering NSLRWCD Canal 37. A limited discharge rate of 7.65 ac-ft is required for a 17.38-acre site.

The proposed development is to provide sufficient water quality treatment in accordance with all requirements set forth by City of Fort Pierce, North St. Lucie River Water Control District, and South Florida Water Management District. The total required treatment volume is to be an estimated 3.767 ac-ft for the overall onsite basin, with 0.57 acres of the required pre-treatment being dry pre-treatment.

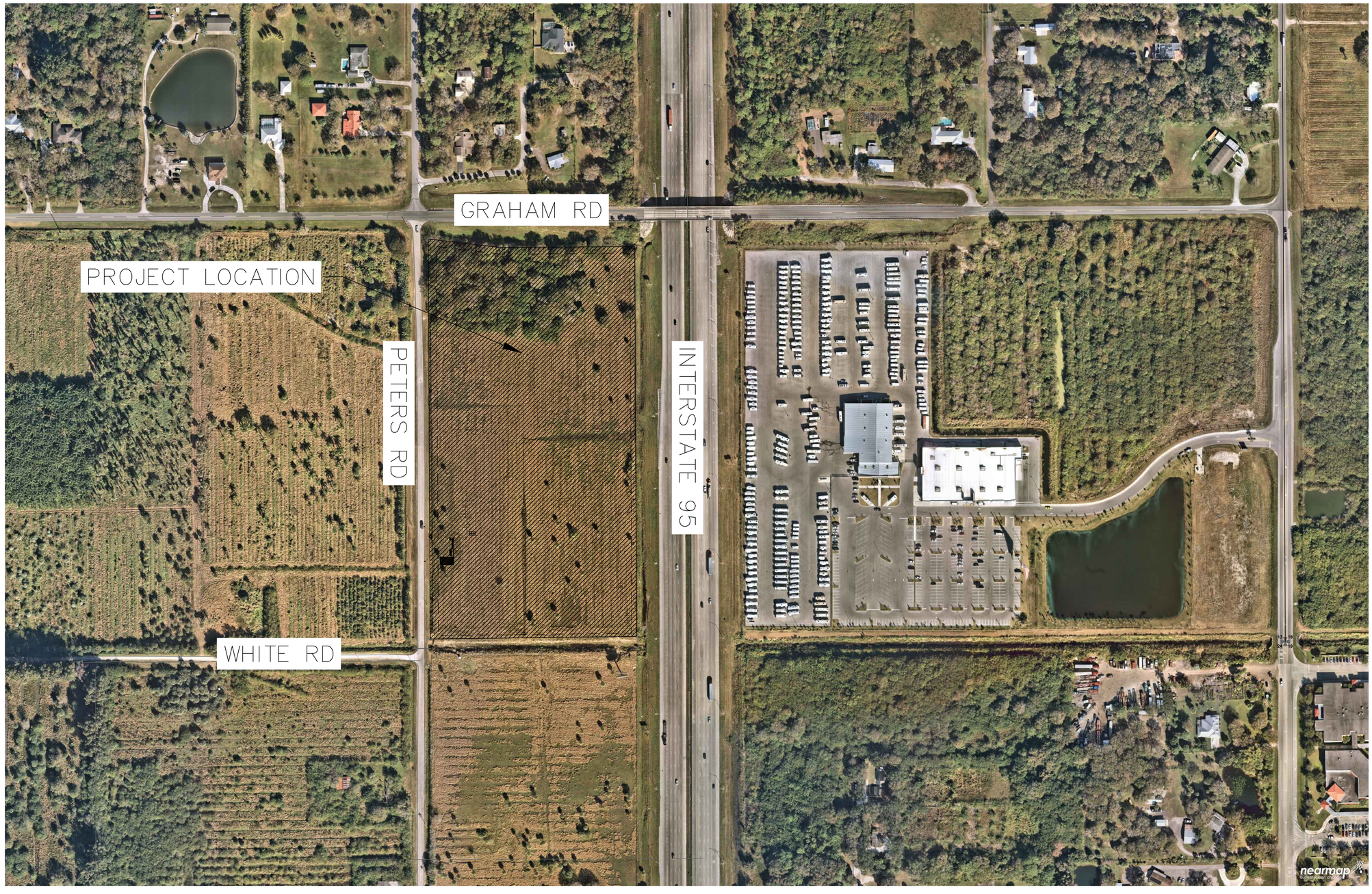
The proposed development is designed to maintain and improve the currently existing pre-development drainage pattern and will have an ultimate outfall to NSLRWCD Canal 37. All drainage design is to be in accordance with the requirements set forth by NSLRWCD, SFWMD, and the City of Fort Pierce.

APPENDICES

APPENDIX A

VICINITY MAPS

Location Map



NORTH

GRAPHIC SCALE IN FEET
0 75 150 300

OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

No.	REVISIONS	DATE	BY

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BLAINE BERGSTRESSER, P.E. ON THE DATE ADJACENT TO THE SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Kimley»Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL ENGINEER
BLAINE ROBERT BERGSTRESSER
LICENSE No. 84966
STATE OF FLORIDA
DATE: 4/6/2021

KHA PROJECT	147814000
DATE	02/25/2021
SCALE	AS SHOWN
DESIGNED BY	BRB
DRAWN BY	TJE
CHECKED BY	BRB

LOCATION MAP

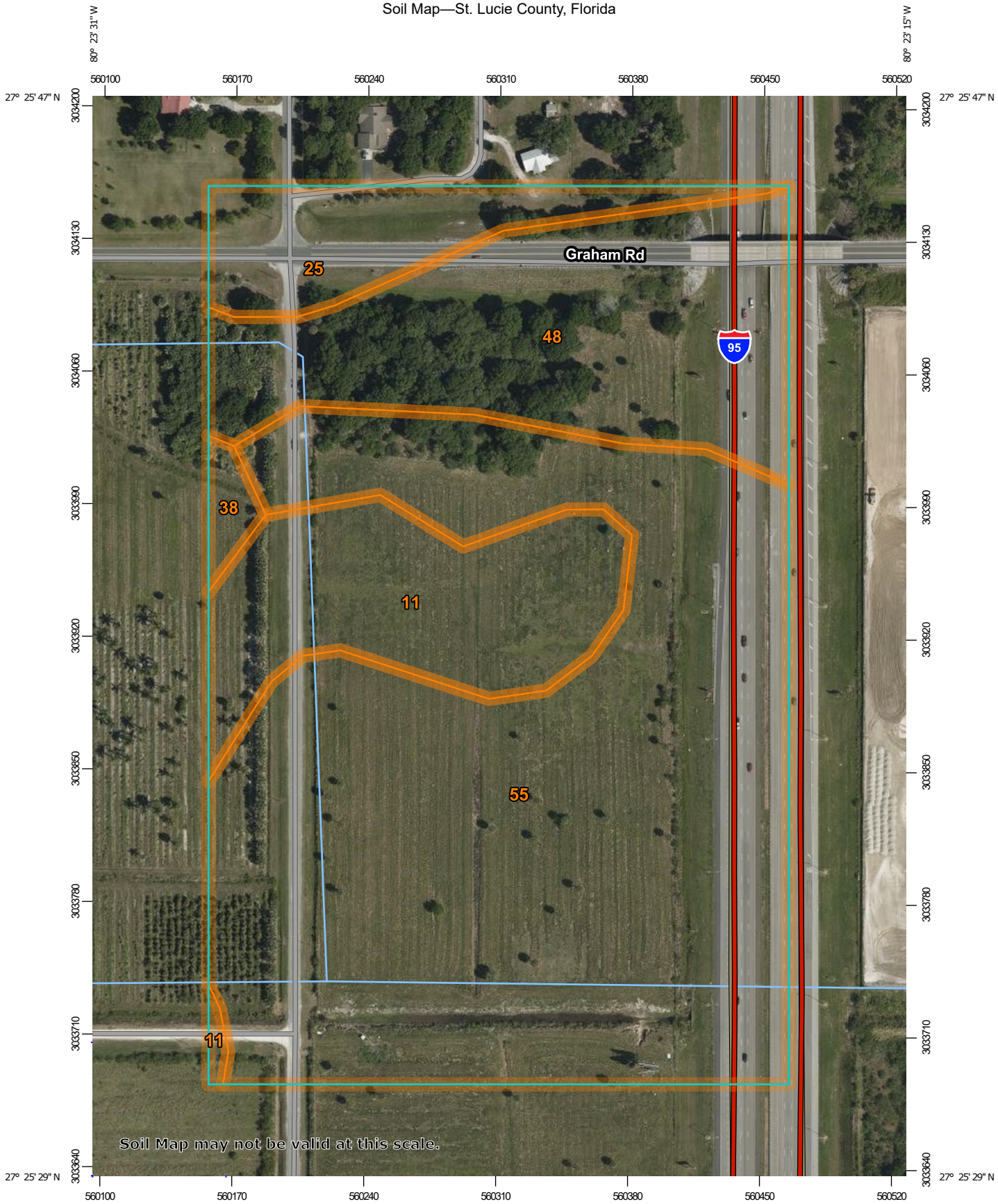
FORT PIERCE RV
PREPARED FOR
MACRITCHIE, INC

FORT PIERCE FLORIDA

SHEET NUMBER
EX-01

Plotted By:Enright, Tyler Sheet Set:Kha Layout:Layout1 April 06, 2021 11:08:22am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\Exhibits\LOCATION MAP EXHIBIT.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NRCS Soil Resource Report for Fort Pierce, Florida



Map Scale: 1:2,780 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

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

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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: St. Lucie County, Florida
Survey Area Data: Version 14, Jun 9, 2020

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

Date(s) aerial images were photographed: Mar 6, 2019—Mar 23, 2019

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.

Map Unit Legend

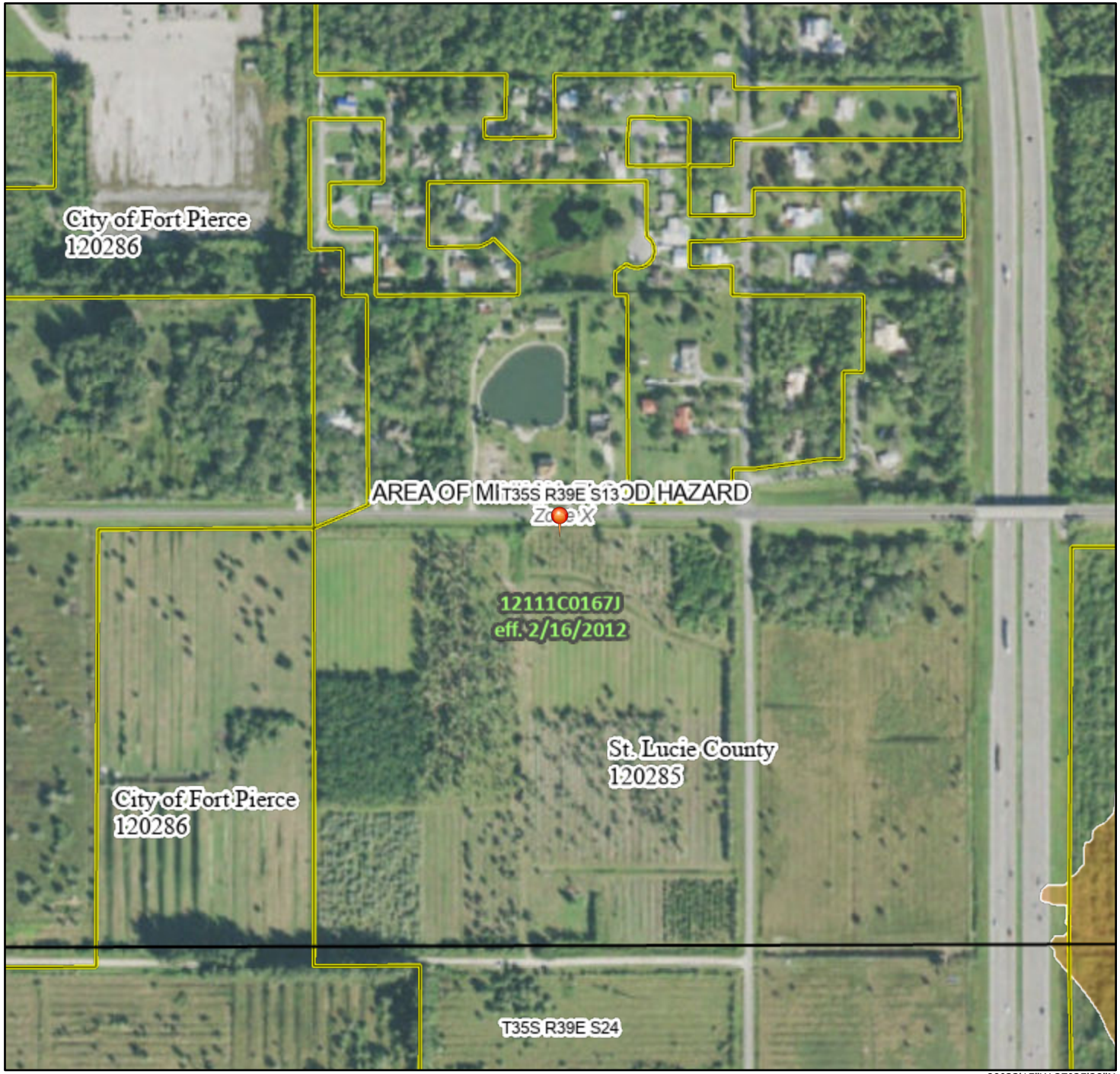
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
11	Chobee loamy sand, frequently ponded, 0 to 1 percent slopes	4.7	13.0%
25	Nettles and Oldsmar sands	2.6	7.1%
38	Riviera fine sand, 0 to 2 percent slopes	0.4	1.0%
48	Wabasso sand, 0 to 2 percent slopes	7.3	20.2%
55	Winder loamy sand	21.3	58.7%
Totals for Area of Interest		**36.2**	**100.0%**

FEMA Floodplain Maps

National Flood Hazard Layer FIRMette

FEMA

80°23'52"W 27°26'N



80°23'15"W 27°25'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2021 at 8:35 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Transverse Mercator State Plane Florida East FIPS 0901. The **horizontal datum** was NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by St. Lucie County and the Florida Geographic Data Library.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

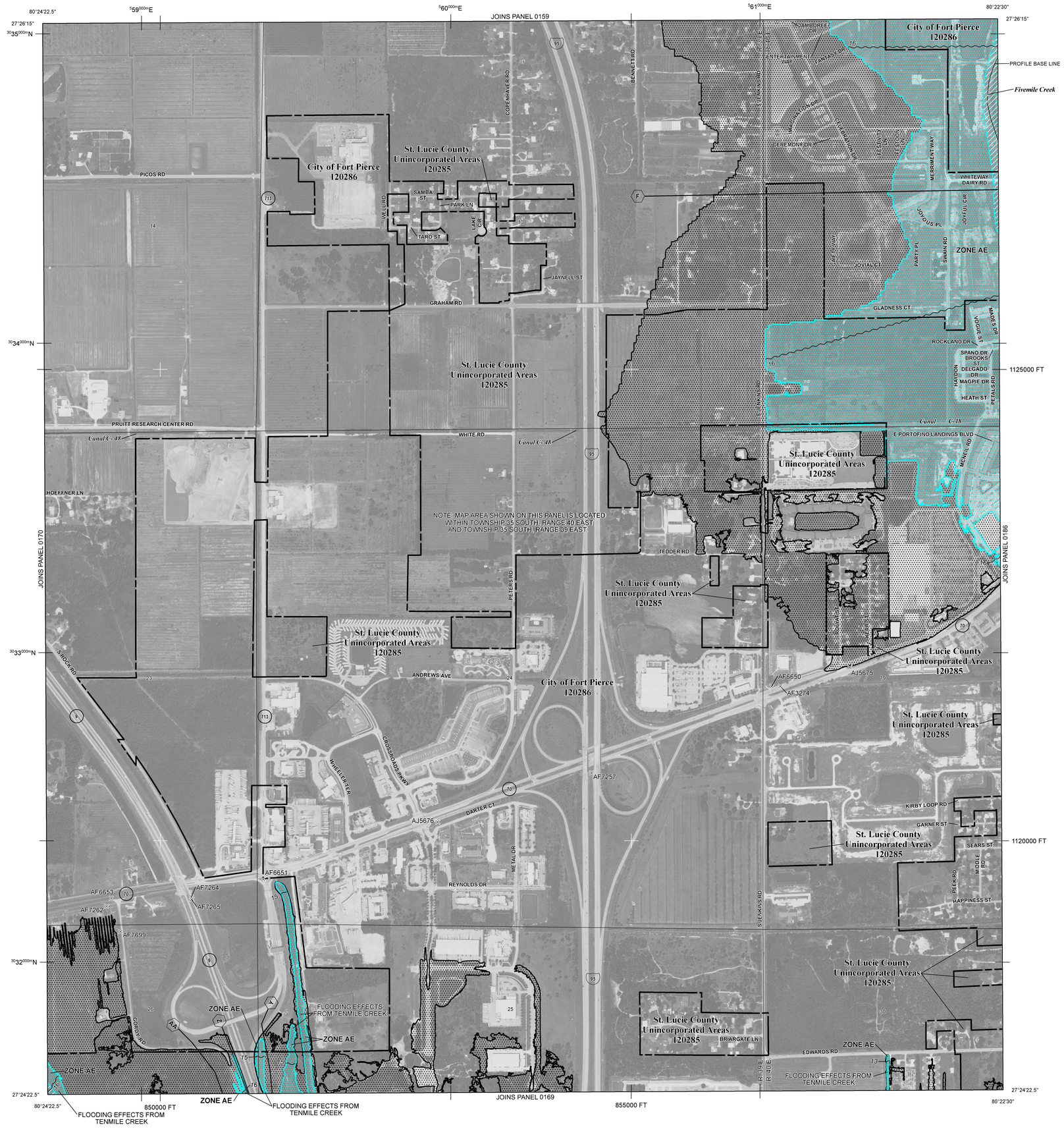
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Information eXchange (FMIX)** at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FMIX may also be reached at its website at http://msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The **"profile base lines"** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4275000mE — 1000-meter Universal Transverse Mercator grid ticks, zone 17
- 6000000 FT — 5000-foot grid values: Florida State Plane coordinate system, East Zone (FIPSZONE = 0901), Transverse Mercator projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
August 19, 1991

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
November 4, 1992

June 30, 1999

February 16, 2012 - to update corporate limits, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to add roads and road names, to update the effects of wave action, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 250 500 750 1,000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0167J

FIRM

FLOOD INSURANCE RATE MAP

ST. LUCIE COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 167 OF 420

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FORT PIERCE, CITY OF	120286	0167	J
ST. LUCIE COUNTY	120285	0167	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12111C0167J

MAP REVISED
FEBRUARY 16, 2012

Federal Emergency Management Agency

SFWMD Rainfall Maps

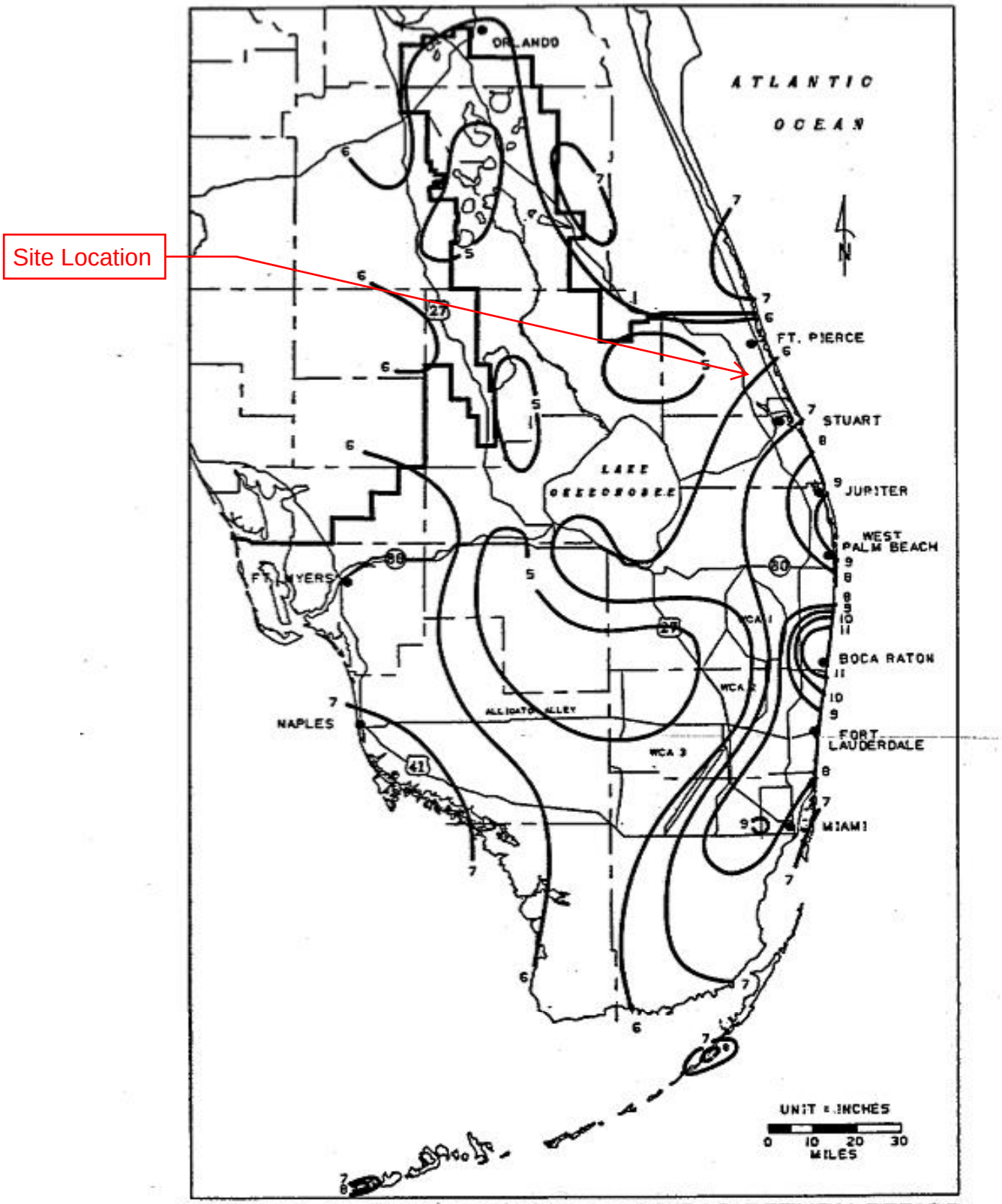


FIGURE C-4. 1-DAY RAINFALL: 10-YEAR RETURN PERIOD

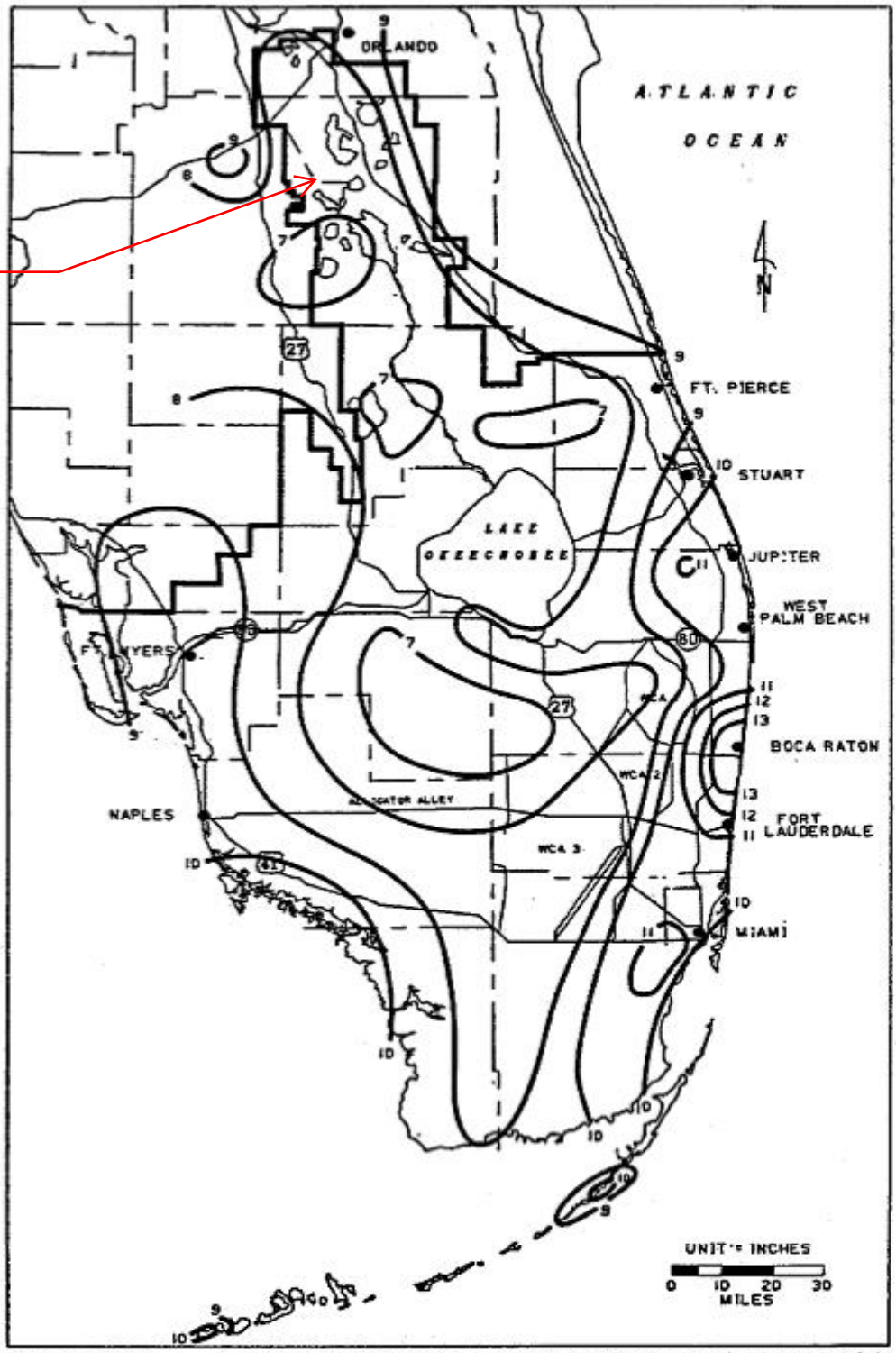


FIGURE C-7. 3-DAY RAINFALL: 10-YEAR RETURN PERIOD

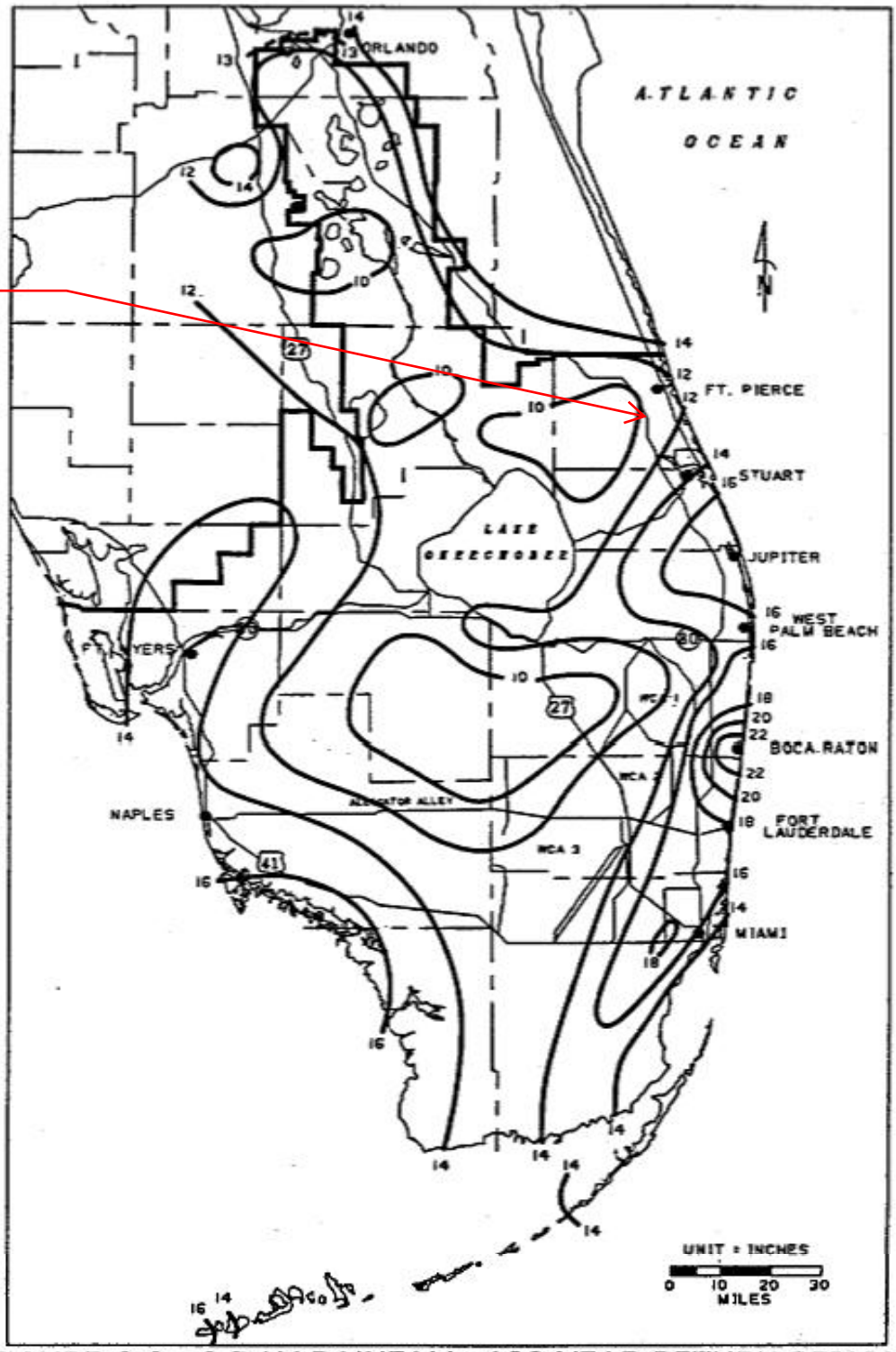


FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

APPENDIX B

Pre-Development Calculations

Pre-Development

Curve Number Calculations

Pre-Development Curve Number
TR-55 Methodology - Pre-Conditions

Pre-Development
Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Undeveloped Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x
	Impervious						
Undeveloped Onsite	Pavement	0	0.00	0.00%		98	0.00
	Building	0	0.00	0.00%		98	0.00
		0	0.00	0.00%		98	0.00
	Water Surface (Top of Bank)		0.00	0.00%		98	0.00
	Impervious Total =	*0*	*0.00*				
	Pervious						
	Group (D)	756,855	17.38	100.00%	Open, Good	80	80.00
	Total Basin Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***80.00***	

Pre-Development

Time of Concentration Calculations

Pre-Development

Time of Concentration

Project Name: **Fort Pierce RV Storage**
Computed by: TJE
Date: 4/6/2021

Basin: **Onsite**

	Segment ID		
Sheet Flow	1	-	
1. Surface Description (Table 3-1)	Unpaved	-	TR-55
2. Manning's roughness coeff., n (Table 3-1)	0.4	-	TR-55
3. Flow Length, L (total <= 300 ft) (feet)	300	-	
4. 2-year 24-hour rainfall, P_2 (inches)	4.80	-	FDOT Fig. 5-13
5. Land slope, s (ft/ft)	0.0067	-	**Sub-total**
6. Tt =(0.007 * (nL)^0.8)/((P_2^0.5)*(s^0.4)) (hr)	1.09	-	1.09

	Segment ID		
Shallow Concentrated Flow	2	-	
7. Surface description (paved or unpaved)	unpaved	-	
8. Flow length, L (feet)	200	-	
9. Watercourse slope, s (ft/ft)	0.010	-	
10. Average velocity, V (TR-55 figure 3-1) (ft/s)	1.61	-	**Sub-total**
11. Tt = (L/(3600*V) (hr)	0.03	-	0.03

	Segment ID		
Channel Flow	3	-	
12. Cross section flow area, a (ft^2)	15.9	-	
13. Wetted perimeter, Pw (ft)	16.4	-	
14. Hydraulic radius, r = a/Pw (ft)	0.97	-	
15. Channel slope, s (ft/ft)	0.001	-	
16. Manning/s roughness coeff., n	0.013	-	
17. V = (1.49*($r^{2/3}$)*($s^{1/2}$))/n (ft/s)	2.94	-	
18. Flow length, L (ft)	480	-	**Sub-total**
19. Tt = (L/3600*V) (hr)	0.045	-	0.05

Total	**Total**	
20. Total Tc (hr)	1.17	hrs
21. Total Tc (min)	70.18	mins

Notes:

1. Methodology used in calculating Time of Concentration is as specified in US Department of Agriculture Technical Release 55, June 1986

Pre-Development

Runoff Calculations

Pre-Development

Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Allowable Discharge Design Storm Event
25 Year 72 Hour - Perimeter Berm Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	3.78	inches =	0.32	feet
OUTPUT:					
	V = Runoff Volume:	***5.47***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	6.10	inches =	0.51	feet
OUTPUT:					
	V = Runoff Volume:	***8.83***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	7.04	inches =	0.59	feet
OUTPUT:					
	V = Runoff Volume:	***10.20***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	9.67	inches =	0.81	feet
OUTPUT:					
	V = Runoff Volume:	***14.00***	***acre-feet***		

Pre-Development

Stage Storage Calculations

Pre-Development

Site Stage Storage Volume

Project Name: Fort Pierce Storage
Calculated By: TJE
Calculated Date 4/6/2021

ALL ELEVATIONS LISTED IN NAVD '88

ONSITE BASIN

Sub-Area	Area at Control Elevation		Total Storage
Low El.	10.00		
High El.	20.00		
Area (ft^2)	756855		
Area (acres)	17.37500		
Stage (NAVD)	Area (sf)	Volume (cf)	(ac-ft)
10.00	0.00	0.00	0.0000
10.20	219.97	79.85	0.0018
10.40	291.09	123.84	0.0028
10.60	372.42	182.06	0.0042
10.80	463.96	256.54	0.0059
11.00	565.71	349.34	0.0080
11.20	678.53	462.48	0.0106
11.40	815.95	598.19	0.0137
11.60	997.01	761.37	0.0175
11.80	1,252.66	960.78	0.0221
12.00	1,589.25	1,211.31	0.0278
12.20	1,969.70	1,529.16	0.0351
12.40	2,385.57	1,923.10	0.0441
12.60	2,864.45	2,400.21	0.0551
12.80	3,667.33	2,973.10	0.0683
13.00	5,099.80	3,706.57	0.0851
13.20	9,771.48	4,726.53	0.1085
13.40	17,249.76	6,680.83	0.1534
13.60	29,098.31	10,130.78	0.2326
13.80	62,373.21	15,950.44	0.3662
14.00	117,929.22	28,425.08	0.6526
14.20	175,501.88	52,010.93	1.1940
14.40	268,553.22	87,111.30	1.9998
14.60	384,963.29	140,821.94	3.2328
14.80	454,455.20	217,814.60	5.0003
15.00	501,314.98	308,705.64	7.0869
15.20	528,555.36	408,968.64	9.3886
15.40	553,468.35	514,679.71	11.8154
15.60	575,885.18	625,373.38	14.3566
15.80	600,627.97	740,550.42	17.0007
16.00	623,872.30	860,676.01	19.7584
16.20	643,721.47	985,450.47	22.6228
16.40	659,480.63	1,114,194.76	25.5784
16.60	670,775.89	1,246,090.89	28.6063
16.80	682,565.04	1,380,246.07	31.6861
17.00	694,590.94	1,516,759.08	34.8200
17.20	705,368.83	1,655,677.27	38.0091
17.40	711,795.93	1,796,751.03	41.2477
17.60	712,599.38	1,939,110.22	44.5158
17.80	712,601.93	2,081,630.09	47.7877
18.00	712,601.94	2,224,150.48	51.0595
18.20	712,601.94	2,366,670.87	54.3313
18.40	712,601.93	2,509,191.25	57.6031
18.60	712,601.94	2,651,711.64	60.8749
18.80	712,601.94	2,794,232.03	64.1467
19.00	712,601.93	2,936,752.42	67.4186
19.20	712,601.94	3,079,272.80	70.6904
19.40	712,601.94	3,221,793.19	73.9622
19.60	712,601.93	3,364,313.58	77.2340
19.80	712,601.94	3,506,833.96	80.5058
20.00	712,601.94	3,649,354.35	83.7776

TOTAL ONSITE

Sub-Area	Total Storage
Low El.	
High El.	
Area (ft^2)	
Area (acres)	
Stage (NAVD)	(ac-ft)
10.00	0.0000
10.20	0.0018
10.40	0.0028
10.60	0.0042
10.80	0.0059
11.00	0.0080
11.20	0.0106
11.40	0.0137
11.60	0.0175
11.80	0.0221
12.00	0.0278
12.20	0.0351
12.40	0.0441
12.60	0.0551
12.80	0.0683
13.00	0.0851
13.20	0.1085
13.40	0.1534
13.60	0.2326
13.80	0.3662
14.00	0.6526
14.20	1.1940
14.40	1.9998
14.60	3.2328
14.80	5.0003
15.00	7.0869
15.20	9.3886
15.40	11.8154
15.60	14.3566
15.80	17.0007
16.00	19.7584
16.20	22.6228
16.40	25.5784
16.60	28.6063
16.80	31.6861
17.00	34.8200
17.20	38.0091
17.40	41.2477
17.60	44.5158
17.80	47.7877
18.00	51.0595
18.20	54.3313
18.40	57.6031
18.60	60.8749
18.80	64.1467
19.00	67.4186
19.20	70.6904
19.40	73.9622
19.60	77.2340
19.80	80.5058
20.00	83.7776

APPENDIX C

Post-Development Calculations

Estimated Post-Development

Curve Number Calculations

Post-Development Curve Number
TR-55 Methodology - Post Conditions

Post-Development

Estimated Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x Area(%)
	Impervious						
Developed Onsite	Pavement	411,198	*9.440*	54.33%		98	53.24
	Building	880	*0.020*	0.12%		98	0.11
			0.000				
	Water Surface (Top of Bank)	122,404	*2.810*	16.17%		98	15.85
	Impervious Total =	*534,482*	*12.270*				
	Pervious						
	Group (D)	222,374	5.11	29.38%	Open, Good	80	23.51

Total Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

	Area (SF)	Area (AC)	% of Total			
Total Pavement =	***411,198***	9.44	***54.33%***		98	53.24
Total Building =	***880***	0.02	***0.12%***		98	0.11
Total Water Surface =	***122,404***	2.81	***16.17%***		98	15.85
Total Pervious =	***222,374***	5.105	***29.38%***		80	23.51

Total Project Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

Estimated Post-Development

Runoff Calculations

Post-Development
Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Minimum Pond Berm Design Storm Event
- Off-site Discharge Rates Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	5.41	inches =	0.45	feet
OUTPUT:					
	V = Runoff Volume:	***8.57***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	7.90	inches =	0.66	feet
OUTPUT:					
	V = Runoff Volume:	***12.51***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	8.90	inches =	0.74	feet
OUTPUT:					
	V = Runoff Volume:	***14.09***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	11.62	inches =	0.97	feet
OUTPUT:					
	V = Runoff Volume:	***18.40***	***acre-feet***		

Estimated Post-Development

Water Quality and Treatment Volume

Post-Development

Water Quality and Treatment Volume

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

TREATMENT

	Basin Area	Required Pre-Treatment (1.0 in over Site Area)	Provided Treatment	Type of Treatment Provided
	(ac)	(ac-ft)	(ac-ft)	
SITE	17.375	3.826	4.000	Wet Detention Pond

WATER QUALITY

Site Area (ac)	17.380
Building Area* (ac)	0.020
Wet Detention Pond Area (ac)	2.810
Impervious Area (ac)	13.145
Pervious Area (ac)	4.300

Area Required for Dry Pretreatment (Total Site - Lake Area)	14.570
Required Dry Pretreatment (0.5" X Treatment Area)	0.607

Site Area for Water Quality = Site Area - Building Area - Pond	14.550
Site Area for Water Quality - Pervious =	10.250
Percentage Impervious for Water Quality =	70.4%

1" x Site Area (ac-ft)	1.448
2.5" x Percentage Impervious for Water Quality (ac-ft)	2.551
Treatment Required for Site (ac-ft)	2.551

Net Required Treatment (ac-ft) (150% for OFW)	3.826
Treatment Provided (ac-ft)	4.000

APPENDIX D

Supporting Documentation

Conceptual SFWMD ERP

Permit No. #56-100483-P

Drainage Calculations

for

Camping World Mass Grading
Fort Pierce, FL

Prepared By:

Engineering Design & Construction, Inc.
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
Board of Professional Engineers Certificate of Authorization Number 9935

June 2018

R.J. Kennedy, P.E. #56218 Date
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
(772) 462-2455

Drainage Calculation Summary

Project Description

The project consists of mass grading and construction of a stormwater water management system to serve a proposed outdoor recreation development (commercial/retail). The final development will see the construction of a 47,456 SF Gander Outdoors retail building, a 17,750 SF Camping World retail & sales building, a 15,035 SF service area, utilities, and the associated parking area. The project will mass grade a 28.97 acre portion of the larger 45.00 acre property. Of the 28.97 acres to be mass graded during this phase 26.53 acres will consist of the outdoor recreation facility and 2.44 acres will consist of a future commercial outparcel ("Outparcel 2"). The remaining 16.03 acres of the property will remain in its existing condition (agricultural). The stormwater management system will provide treatment and attenuation for 28.97 acres of development. Dry pre-treatment will be provided under this phase for the 26.53 acres of the outdoor recreation facility. The future outparcel will be required to provide for its own dry pre-treatment during its respective permitting & construction. There are 0.46 acres of man-made agricultural ditches (other surface waters) to be impacted by the project. The site will be served by the Fort Pierce Utilities Authority (FPUA) for water and wastewater.

The project is located north of Okeechobee Road (SR-70), east of Interstate 95, on Jenkins Road in the City of Fort Pierce. The parcel ID numbers are 2313-431-0000-000-1, 2313-441-0000-000-2, 2313-444-0040-000-3, 2313-443-0000-000-7, and 2313-434-0001-000-8. The project is located in Section 13, Township 35 South, and Range 39 East.

Please see the enclosed plans and appendices for more detailed site information.

Existing Drainage Conditions

The existing site consists of 45.00 acres of agricultural land (citrus groves). Drainage from the groves is conveyed overland by beds and furrows to a series of primary ditches. The ditches convey drainage south to an existing 36" flashboard riser structure that outfalls into the North St. Lucie River Water Control District (NSLRWCD) Canal 37. The existing outfall pipe is cantilevered above the normal control elevation (dry season 7.78 NAVD, wet season 4.53 NAVD) of Canal 37. The 36" flashboard riser structure does not have any weir plates or boards in place. During a June 2018 site visit an old tire was observed immediately in front of the structure. It did not appear to be acting as a weir or causing appreciable staging. As such, any water collected into the ditch is currently discharged into Canal 37 at the structure invert (8.65 NAVD). This free discharge condition appears to have persisted for a long time based on stain lines observed by EDC during the recent site visit.

There is not currently any comingle of runoff outside of the property boundaries. The eastern and northern boundaries drain into roadside swales. The western boundary drains into the Interstate 95 stormwater system. The southern boundary is divided by elevated banks along the NSLRWCD Canal 37 right-of-way.

Soils

Please see the enclose soils map. The majority of the site consists of Wabasso sand, 0 to 2 percent slopes and Winder loamy sand. A minor coverage of Hilolo loamy sand exists at the center of the site.

Control Elevation

As previously noted in the existing drainage section of this report, the site is currently controlled by a freely discharging pipe at elevation 8.65 NAVD. Water and stain lines were observed at the invert of this pipe during a June 2018 site visit.

There is an existing culvert pipe within the swale along Jenkins Road that outfalls directly to NSLRWD Canal 37. The culvert is at invert 11.19 NAVD. During the June 2018 site visit the invert of the pipe was observed to be dry.

NSLRWCD Canal 37 was observed to have a water level near the invert of a 60” culvert beneath Jenkins Road (elevation 5.60 NAVD).

It is important to note that the above observations were made following above average wet season rainfall during the last half of May. Based on SFWMD records the month of May experienced 448% of its average monthly rainfall.

Please see the following exhibits below.



Exhibit 1. Existing Site Control Structure



Exhibit 2. Existing Culvert in Jenkins Road Swale

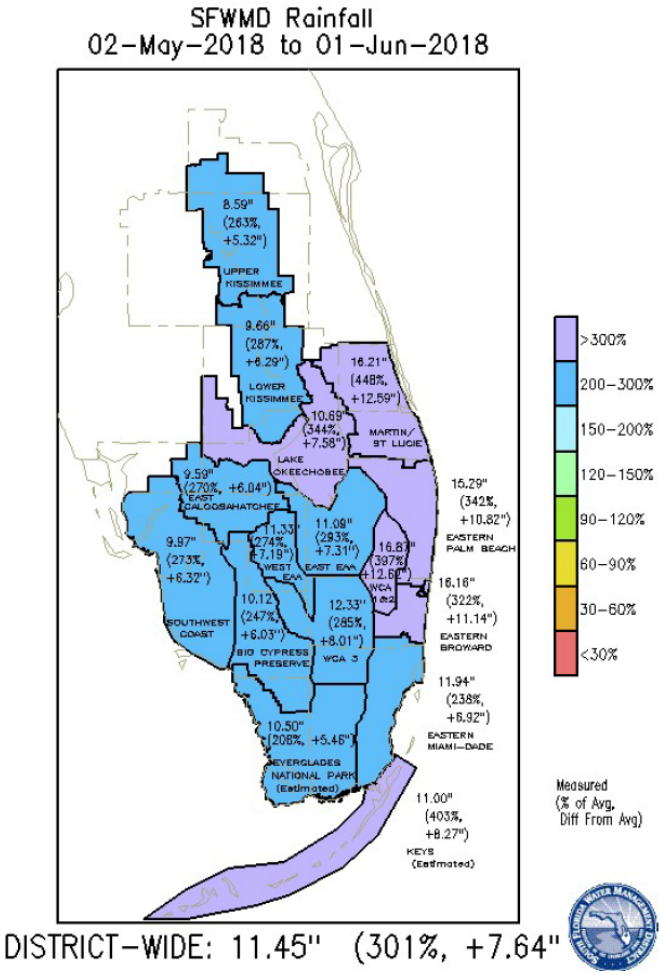


Exhibit 3. SFWMD Rainfall Map

Based on the above referenced information the following design control elevation has been determined to be 10.00 NAVD.

Tailwater

The proposed project will discharge to North St. Lucie River Water Control District (NSLRWCD) Canal No. 37. EDC obtained the drainage permit files for existing projects along this reach of canal. The adjacent Jenkins Road K-8 School (ERP 56-02469-P) and Portofino Landings (ERP 56-00577-S) developments have both historically been designed to the same tailwater condition. As such, the permitted tailwater condition has been adopted for the design of the Camping World stormwater management system. Please see the enclosed Appendix F for the associated supplemental information.

Proposed Drainage Conditions

The proposed project has been designed to maintain the existing drainage pattern and outfall location to NSLRWCD Canal 37. In the post-development condition there will be two (2) primary drainage basins within the overall 45.00 acre property.

Camping World and Outparcel

Drainage from the 26.53 acre outdoor recreation facility (“Camping World”) and 2.44 acre future outparcel (“Outparcel 2”) will be routed to a proposed wet detention lake system. The propose site plan for Camping World has been used for land use coverage. Land use coverage assumptions of 60% impervious, 20% building, and 20% pervious have been assumed for future Outparcel 2. Prior to discharge into the lake system Camping World will be routed through a dry detention area for pre-treatment. The future outparcel will be required to provide its own dry pre-treatment at its respective time for permitting and construction. The lake will outfall via a modified Type E control structure and the existing 36” pipe.

Existing Off-site (Remaining) 16.03 Acres

The remaining 16.03 acres of the property will remain in its existing condition until it is developed in the future. In order to not adversely affect existing drainage patterns, the proposed stormwater system has been designed to provide pass-through for the 16.03 acres. This also allows for future routing to the sites outfall location when this portion of the site is eventually developed. A directly connected pipe will be installed between the proposed wet detention lake and an existing ditch to remain. EDC has performed two (2) modeling scenarios in order to demonstrate that the stormwater system will function accordingly for pass through of the existing condition and future development of this area.

Please see the enclose construction plans and appendices for additional information.

Design Criteria

The system will be designed to satisfy the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

Water Quality Treatment

The proposed system will provide water quality treatment in excess of the City of Fort Pierce and SFWMD ERP criteria. Water quality will be provided for the Camping World and Outparcel 2 in the proposed system. The remaining 16.03 acres is routed as pass through, thus treatment will not be provided at this time. Future development of the 16.03 acres will require construction of additional stormwater management facilities in order to provide the required water quality volume.

The site is required to meet additional water quality criteria for discharge to the St. Lucie Basin. The proposed system provides a net improvement for the average annual nutrient loads leaving the site. The design water quality retention volume is in excess of 150% of the SFWMD design volume (OFW criteria).

The stormwater management system will provide a mix of wet dry detention and wet to satisfy the above criteria. For these calculations please see the enclosed Appendices A and D.

Dry Pre-Treatment

Per the South Florida Water Management District, 0.50 inches of dry pre-treatment is required over the site for a commercial development. Please note, dry pre-treatment will be provided for only the Camping World portion of development. The future outparcel will be required to provide its own dry pre-treatment prior to discharging into the lake system. This will be provided at the time of permitting and development of the outparcel.

Camping World Development Area = 26.53 ac
Wet Detention Lake @ Control Elevation = 3.19 ac
0.5”/12 x (26.53 ac – 3.19 ac) = 0.97 acft of dry pre-treatment is required.

In order to provide the required dry pre-treatment the applicant proposes to construct two dry detention swales. The dry detention swales will capture runoff behind two modified Type E structures with horizontal weirs and provide pre-treatment prior to discharge into the wet detention lake. Minimum sized bleeders (3) will be installed on the structures.

Provided dry pre-treatment = 1.01 acft

Please note that the 1.01 acft of dry detention provided by swale system is credited towards the 6.31 acft of total water quality treatment required for the project. Thus, the remaining 5.30 acft is required to be provided in the wet detention lake. Please see Appendix A for the drainage calculations.

Net Improvement – Nutrient Loading Analysis

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the applicant is required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition. The wet detention lake will provide sufficient residence time in the permanent pool volume to achieve the necessary level of nutrient removal. Please see Appendix D for the associated net improvement calculations.

Water Quantity

The proposed system is required to satisfy the attenuation and flood control criteria of the SFWMD and NSLRWCD. In order to account for both proposed and future condition EDC has provided two (2) ICPR modeling scenarios of the site.

Allowable Discharge

The allowable discharge for the receiving water (NSLRWCD Canal 37) is limited to 2” of depth over the area served for any 24 hour period from the 10-year, 72-hour duration rainfall.

Total site = 45.00 acres

Total Allowable Rate = 2”/12 x 45.00 acres = 7.65 acft in any 24-hour period

Scenario 1 – Developed Condition Model

The proposed stormwater system accounts for all future development of Camping World (26.53 acres), future Outparcel 2 (2.44 acres), and future off-site development of the remaining 16.03 acres. Camping World and Outparcel 2 are modeled as direct basin discharge to the proposed wet detention system. The future development of the 16.03 acres is uncertain at this time. As such, the ICPR model makes the following assumptions for this:

- The future development will construct its own stormwater management system and control structure.
- Discharge from the future system that will continue to pass through the Camping World lake.
- Discharge from the future system will be limited to the allowable NSLRWCD rate for its share of acreage.
- Allowable discharge from the future system has been routed as a rating curve.

Scenario 2 - Existing Off-Site Condition Model

As discussed in previous sections of this report the total contributing drainage area is 45.00 acres. The entire site drains south via ditches to an existing 36" flashboard riser structure into NSLRWCD Canal 37. The property is not currently controlled at the allowable NSLRWCD rate (free discharge, no weir, directly piped). Only 28.97 acres will be developed under this phase. The remaining 16.03 acres will remain in its existing condition. A direct piped connection to the Camping World system will be installed in order to maintain existing drainage patterns to the south (pass through). As such, the applicant has also provided a separate ICPR model that incorporates the storage and runoff from remaining 16.03 acres in its current condition. This analysis is provided to demonstrate that the proposed system will satisfy the applicable water quantity criteria during the time period that the 16.03 acres remains undeveloped. Drainage is sufficiently maintained on-site below existing elevations and adjacent properties will not be affected. Please see the below summary table and Appendix C for additional information.

Bleeder Orifice

The wet detention bleeder orifice shall be sized such that discharge is limited to 0.50" per day. The proposed bleeder orifice will be 4" in diameter. Please see Appendix A for bleeder sizing calculations.

Minimum Road and Parking

The minimum parking lot and driveway elevations are required to be set above the 10-year, 24-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Perimeter Berm

The minimum perimeter berm elevation is required to be set above the 25-year, 72-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Finished Floor

The minimum finished floor elevation is required to be set above the 100-year, 72-hour storm event with no discharge. See the enclosed appendices and the summary table below for further details.

Initial Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.28 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.27 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.45 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.35 NAVD	18.50 NAVD

Recovery Storm Event Summary

Per SFWMD criteria, the system is required to recover to the proposed bleeder invert within 12-days after the design storm event. Due to the allowable discharge rate of the NSLRWCD the proposed system does not recovery entirely to the wet detention bleeder invert. As such, the applicant has run a back-to-back analysis of the stormwater management system with the model start elevation at the 12-day stage of the initial routing analysis. The proposed system continues to provide reasonable assurance of the required water quantity criteria. Please see Appendix C for this ICPR analysis.

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.98 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.54 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.55 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.68 NAVD	18.50 NAVD

Existing Off-Site Condition Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.20 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	6.49 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	14.71 NAVD	15.75 NAVD 14.87 NAVD*
Minimum FFE 100-year, 72-hour event	12.23 in	15.57 NAVD	18.50 NAVD

*The minimum perimeter berm elevation of the 16.03 acre portion to remain is 14.87 NAVD.

Jenkins Road Turn Lane

A new right-turn lane and driveway will be constructed at the eastern boundary of the subject site within the Jenkins Road right-of-way. There is no existing ERP or associated drainage permit for this portion of Jenkins Road. This portion of Jenkins Road is crowned at the centerline. The southbound lane currently drains to a roadside swale along the eastern boundary of the subject site. All drainage collected by the swale is conveyed south to an existing culvert pipe that outfalls directly into NSLRWCD Canal 37 (no treatment or attenuation). Existing drainage patterns will be maintained for construction of the proposed turn lane and driveway. The turn lane will be sloped to the west in order to drain into the existing swale. South flowing conveyance in the swale will be maintained by a proposed 24” culvert beneath the driveway. All construction activities within the right-of-way are safety related improvements for access. The turn lane is less than 0.25 miles in length. As such, this portion of the project qualifies for an exemption under 62-330.051(4)c F.A.C.

Datum

All elevations included on the project construction plans are in reference to the North American Vertical Datum 1929. The vertical datum conversion was confirmed using Corpscon 6 software and was found to be 1.475 feet in the project area. This is used to convert NGVD to NAVD, in other words NGVD elevation minus 1.475 feet = NAVD elevation.

SFWMD Water Use Permitting

The proposed project will require dewatering for the construction of the lake and underground piping. As such, an individual permit for dewatering is being submitted concurrently with this application.

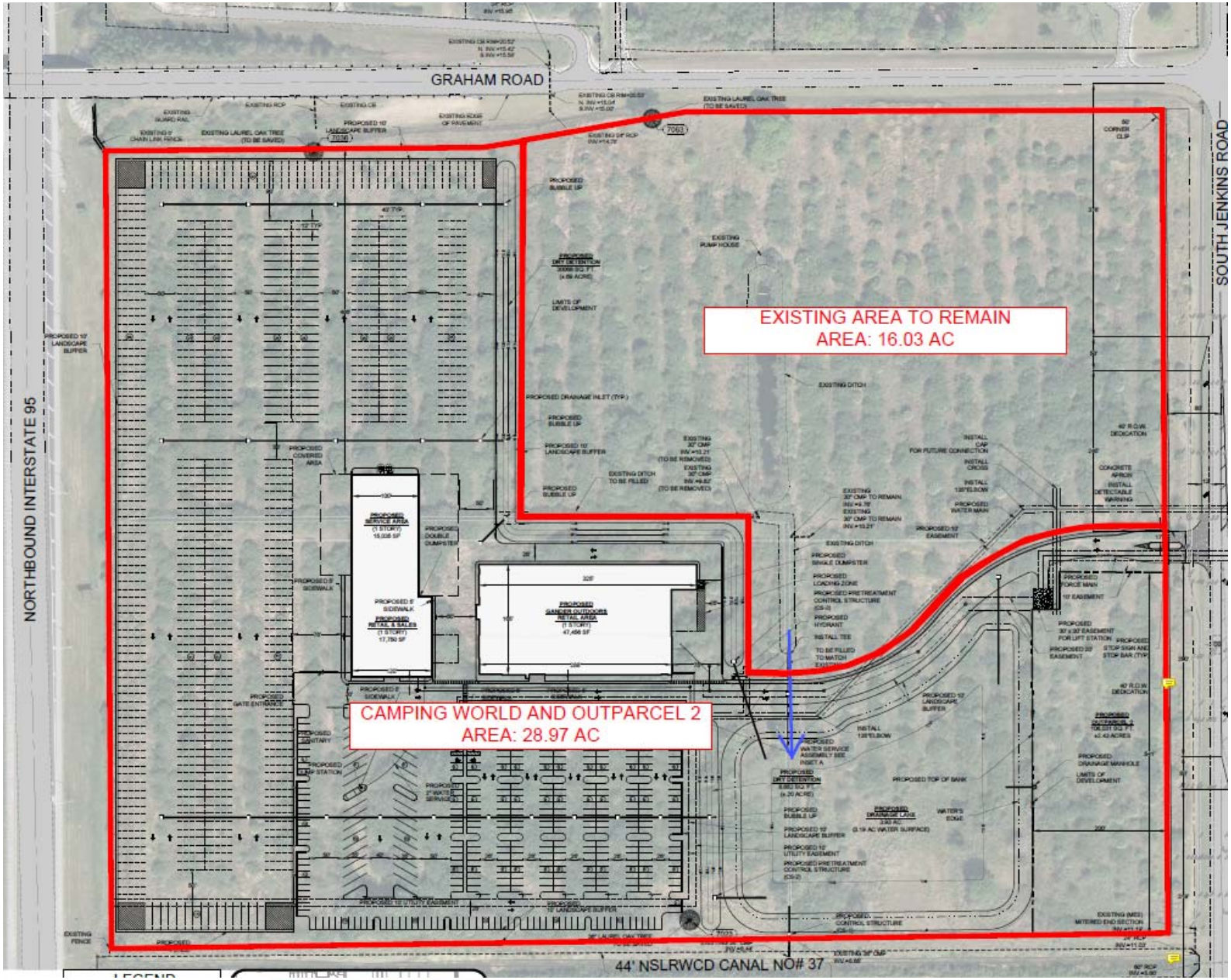
The proposed project is for mass grading only. Irrigation will not be constructed at this time. Upon permitting of the detailed construction plans a water use permit application for an irrigation well will be submitted.

Appendix A - Drainage Calculations

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

Basin Map Exhibit



ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

Camping World and Outparcel - Post Development Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	1.84	0.00	1.84
*Future Building (Assume 20%) =	0.49	0.00	0.49
Impervious =	16.90	0.00	16.90
Future Impervious (Assume (60%) =	1.46	0.00	1.46
Dry Detention Area =	0.00	0.89	0.89
Wet Detention Area =	3.19	0.74	3.93
Pervious =	0.00	2.98	2.98
*Future Pervious =	0.00	0.49	0.49
Undeveloped or Preserve Land =	0.00	0.00	0.00
TOTAL =	23.88	5.09	28.97

*Future Outparcel Development Area = 2.44 ac
**Does not include off-site undeveloped site to be routed as pass through

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 3.46 *Does not include BMP area
Undeveloped Pervious Area = 0.00
Soil Storage = 6.80
Soil Moisture Storage (S) = 0.61 inches
Curve Number = **94** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient	
	P_2 =	5.00	inches	
	s =	0.001	foot/foot	
	L =	0	feet	
T_{1A} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	
Parameters for T_{1b} :	n =	0.011	coefficient	
	P_2 =	5.00	inches	
	s =	0.020	foot/foot	
	L =	0	feet	
T_{1B} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

Parameter for T2:

V= 0.51021769

V=	0.16		
s =	0.005	foot/foot	
L =	0	feet	

T_1 =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

used 10 minutes

TC= total T1A+T1B+T2 0.0

Camping World and Outparcel - Post-Development Water Quality Calculations

Project:	Camping World	**Engineer:**	DCB
Project #:	16-225	**Date:**	6/15/2018

1-inch Over the Project Area - per SFWMD

(Treated Volume) 1-inch * 1-ft/12-in * 28.970 (PROJECT AREA) = 2.41 (TREATED VOLUME) ac-ft

2.5-inches Times the Percent Impervious - per SFWMD

(Site Area) 28.970 (PROJECT AREA (AC)) - (3.189 (LAKES (AC)) + 2.329 (ROOFS (AC))) = 23.453 (SITE AREA) ac

(Impervious Area) 23.453 (SITE AREA (AC)) - 5.091 (PERVIOUS AREA (AC)) = 18.361 (IMPERVIOUS AREA) ac

(% Impervious) IMPERVIOUS AREA * 100% / SITE AREA (AC) = 78.29%

(2.5-in * % Imp.) 2.5-inches * 78.29% (PERCENT IMPERVIOUS) = 1.96 (INCHES TO BE TREATED)

(Treated Volume) 1.96 (TREATED (IN)) * 1-ft/12-in * 25.78 (PROJECT AREA - LAKES (AC)) = 4.21

	SFWMD - STD	SFWMD - OFW
Required Wet Detention (100%) =	**4.21**	**6.31**
Required Dry Detention (75%) =	**3.15**	**4.73**
Required Retention (50%) =	**2.10**	**3.15**

* An additional 0.5-inch of pretreatment for industrial or commercial projects will be needed.
** OFW volume is 150% of the standard SFWMD criteria

Camping World and Outparcel - Post Development Bleeder Size Calculations

Project: Camping World | **Engineer:** DCB
Project #: 16-225 | **Date:** 6/15/2018

Allowed discharge in the first 24-hours is .5-inches of the required detention.

(Discharge Volume) 0.5-inch * 1-ft/12-in * 25.782 (PROJECT AREA - LAKES (AC)) = 1.074 (TREATED VOLUME) ac-ft

(Conversion) 1-day / 86,400-sec. * 43,560-sf / 1-acre * 1.074 (VOLUME (AC-FT)) = 0.542 (DISCHARGE) cfs

Basin Area = 28.970 ac

Lake Area = 3.189 ac

Bleeder Elevation = 10.00 ft

Bleeder Size (dia) = 4.00 in * First iteration use 3-inch diameter bleeder.

Number of bleeders = 1.00 * Enter the number of bleeders.

Water Quality Stage = 11.60 ft * Enter water quality staqe elevation from the stage-storage table spread sheet.

Bleeder Sizing:

Size bleeder to discharge at a rate of 0.5 in/day for the contributing area.

For circular orifice use the following equation.

$$A = \frac{Q}{4.8 * (H)^{.5}}$$

Q = Maximum Flow (cfs)
A = Cross Sectional Area (sq.ft.)
H = Head above bleeder centroid (ft)

Results, Q = 0.542 cfs
H = 1.433 feet

A = 0.0942 sq.ft.

For diameter of the circular orifice use the following equation.

$$d = \left(\frac{4 * A}{Pi}\right)^{.5}$$

d = diameter (ft)
A = Cross Sectional Area (sq.ft.)

Results, A = 0.0942 sq.ft.

d = 0.3464 feet

Finally, the diameter in inches

d = 4.16 inches — Use 4.00" Bleeder

* If diameter is larger than 3-inches than "Bleeder Size" input information needs to be revised until bleeder input size and output diameter equal each other.

Note: add bleeder diameter to control elevation. Ensure that its less than weir elevation by three inches

Camping World and Outparcel - Post Development Stage Storage Calculations

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Dry Detention Area																
Dry Detention Bottom - North	Vertical	0.1943	14.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.29	0.49	0.68	0.87
Dry Detention Slopes - North	Linear	0.4959	14.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.28	0.74	1.24	1.74
Dry Detention Bottom - South	Vertical	0.0539	13.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.16	0.22	0.27
Dry Detention Slopes - South	Linear	0.1448	13.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.25	0.40	0.54
DRY WATER QUALITY					**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.21**	**0.79**	**1.64**	**2.53**	**3.42**
Wet Dentention Area																
Wet Detention at C.E.	Vertical	3.1887	10.00		0.00	1.59	3.19	4.78	6.38	7.97	11.16	14.35	17.54	20.73	23.92	27.10
Wet Detention Slopes	Linear	0.7387	10.00	15.00	0.00	0.02	0.07	0.17	0.30	0.46	0.90	1.50	2.22	2.95	3.69	4.43
WET WATER QUALITY					**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**15.85**	**19.75**	**23.68**	**27.61**	**31.54**
Asphalt & Concrete	Linear	16.9001	16.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	7.61	21.13
Open Space	Linear	2.9764	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.12	3.10	5.95
Future Asphalt & Concrete	Linear	1.4614	16.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.46
Future Open Space	Linear	0.4871	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18	0.51	0.97
	Sub-Total:	26.64		**Totals:**	**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**16.06**	**20.69**	**27.47**	**41.72**	**64.47**
Building Pads		1.84	*Not included in Stage-storage calculations													
Future Building Pad		0.49	*Future outparcel, see post development basin assumptions. Not included in Stage-storage calculations.													
	Total:	28.97														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	**0.00**	**0.194**
10.50	**1.61**	**6.257**
11.00	**3.26**	**0.000**
11.50	**4.95**	**6.747**
12.00	**6.67**	**0.000**
12.50	**8.43**	**7.042**
13.50	**12.07**	**0.000**
14.50	**16.06**	**7.981**
15.50	**20.69**	**0.000**
16.50	**27.47**	**13.555**
17.50	**41.72**	**14.946**
18.50	**64.47**	**0.000**

Set Water Quality Elevation

Total Water Quality Volume Required:	**6.31**	ac-ft	<---	See Water Quality Volume Calculation Sheet
Required Dry Detention Pre-Treatment:	**0.97**	ac-ft	<---	0.5"/12 x Camping World Project Area (26.53 ac - Lake)
Required Water Quality Dry Pre-Treatment Stage:	**15.71**		<---	Per Stage Storage in Dry Detention Area Only
Proposed Dry Pre-Treatment Weir Elevation:	**15.75**			
Dry Pre-Treatment Detention Volume Provided:	**1.01**			
Wet Detention Water Quality Volume Remaining:	**5.30**	ac-ft	<---	Total Required WQTV - Provided Dry Pre-Treatment
Required Water Quality Wet Detention Stage:	**11.60**	NAVD	<---	Per Stage Storage in Wet Detention Area Only
Proposed Wet Water Quality Weir Elevation:	**11.60**	NAVD		
Wet Water Quality Detention Volume Provided:	**5.30**	ac-ft	<---	Provided Wet Detention Volume between Bleeder and Weir
Total Water Quality Volume Provided:	**6.31**	ac-ft	<---	= Provided Dry Pre-Treatment + Provided Wet Detention

Sufficient Water Quality Treatment Provided

Existing Off-Site Basin Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	0.000	0.000	0.000
Impervious =	0.000	0.000	0.000
Dry Detention Area =	0.000	0.000	0.000
Existing Ditch Area =	0.662	0.000	0.662
Developed Compacted Open Space =	0.000	0.000	0.000
Undeveloped or Preserve Land =	0.000	15.368	15.368
TOTAL =	0.662	15.368	16.030

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 7.68
Undeveloped Pervious Area = 7.68
Soil Storage = 6.80
Soil Moisture Storage (S) = 5.70 inches
Curve Number = **64** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient
	P_2 =	5.00	inches
	s =	0.001	foot/foot
	L =	0	feet

T_{1A} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameters for T_{1b} :	n =	0.011	coefficient
	P_2 =	5.00	inches
	s =	0.020	foot/foot
	L =	0	feet

T_{1B} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameter for T2:

V= 0.51021769

V=	0.16	
s =	0.005	foot/foot
L =	0	feet

T_1 =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

used 10 minutes

TC= total T1A+T1B+T2 0.0

Existing Off-Site Basin-Stage Storage Calculations for Camping World

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Existing Ditch @ C.E.	Vertical	0.6620	10.00		0.00	0.33	0.66	0.99	1.32	1.65	2.32	2.98	3.64	4.30	4.96	5.63
Existign Ditch Slopes	Linear	0.0000	10.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WATER QUALITY					**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**2.98**	**3.64**	**4.30**	**4.96**	**5.63**
Asphalt & Concrete	Linear	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Space	Linear	15.3680	13.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56	10.25	23.05	38.42	53.79
	Sub-Total:	16.03		**Totals:**	**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**5.54**	**13.89**	**27.35**	**43.38**	**59.41**
Building Pads		0.00	*Not included in Stage-storage calculations													
	Total:	16.03														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	0.00	0.662
10.50	0.33	0.000
11.00	0.66	1.324
11.50	0.99	0.000
12.00	1.32	1.324
12.50	1.65	0.000
13.50	2.32	1.324
14.50	5.54	5.123
15.50	13.89	11.569
16.50	27.35	15.368
17.50	43.38	0.000
18.50	59.41	0.000

Appendix B - ICPR Routing Developed Condition Model Initial Storm Events

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

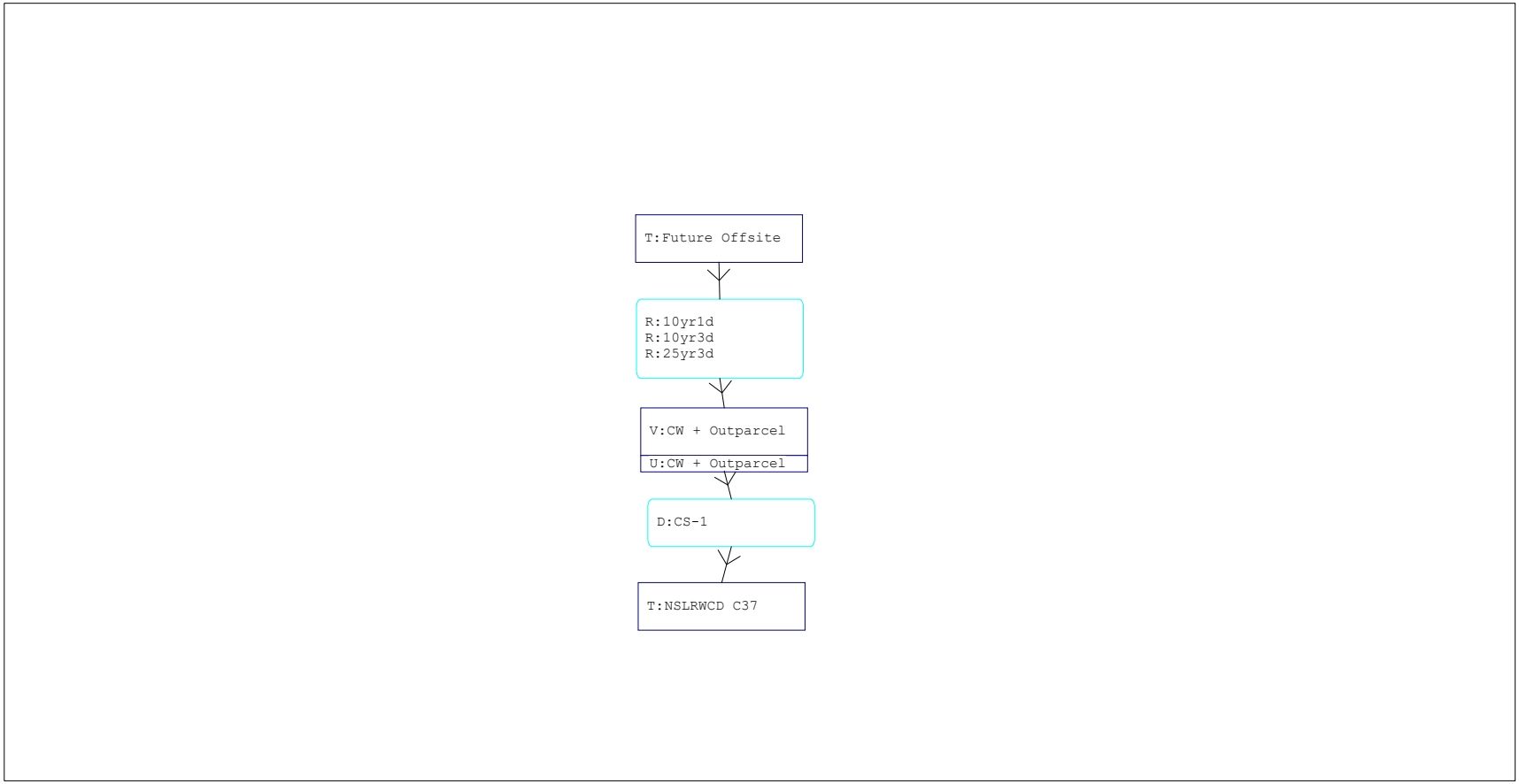
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Initial Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========

Drop Structures

==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Circular Orifice Disc Coef: 0.600

Span(in): 4.00 Invert(ft): 10.000
Rise(in): 4.00 Control Elev(ft): 10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 8.00 Invert(ft): 11.600
Rise(in): 6.00 Control Elev(ft): 11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.250
Rise(in): 6.00 Control Elev(ft): 15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Horizontal Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.750
Rise(in): 18.00 Control Elev(ft): 15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.35	18.50	0.0050	425735	60.00	156.04	0.00	0.00
CW + Outparcel	BASE	10yr1d	23.67	13.28	18.50	0.0050	163956	12.25	101.27	23.67	2.66
CW + Outparcel	BASE	10yr3d	68.41	15.17	18.50	0.0050	228225	60.00	109.14	72.01	3.79
CW + Outparcel	BASE	25yr3d	68.01	15.45	18.50	0.0050	245420	60.00	122.26	68.03	5.20
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.01	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.01	11.94	18.50	0.0243	0	23.67	2.66	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.01	3.79	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	68.03	5.20	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.07	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.21	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.11	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.02	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.93	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.84	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.76	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.69	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.63	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.57	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.52	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.48	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.47	0.00	-0.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.46	0.00	-0.49	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.45	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.43	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.42	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.41	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.40	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.39	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.38	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.37	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.36	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.33	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.32	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.31	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.30	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.28	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.27	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.25	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.23	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.21	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.19	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.18	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.17	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.16	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.15	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.13	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.12	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.15	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.17	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.16	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.15	0.00	-0.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.14	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.12	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.04	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.11	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.16	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.19	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.23	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.25	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.28	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.47	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.62	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.79	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.98	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.18	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.36	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.49	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.59	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.52	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.44	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.35	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.25	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.13	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.00	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.87	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.74	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.62	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.51	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.40	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.30	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.20	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.11	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	0.07	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	0.14	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	0.18	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	0.22	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	0.25	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	0.29	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	0.32	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	0.35	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	0.38	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	0.41	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.44	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.47	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.50	0.00	-0.92	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.53	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.59	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.62	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.65	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.67	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.69	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.72	0.00	-0.82	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.74	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.76	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.78	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.81	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.83	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.85	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.88	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.90	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.92	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.95	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.97	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.99	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.02	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.04	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.06	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.08	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.10	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.12	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.14	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.16	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.18	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.21	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.23	0.00	-0.35	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.26	0.00	-0.33	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.28	0.00	-0.30	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.30	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.32	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.35	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.37	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.40	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.42	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.44	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.46	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.48	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.51	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.53	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.55	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.58	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.60	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.63	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	1.65	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	1.68	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	1.71	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	1.73	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	1.76	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	1.77	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	1.78	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	1.79	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	1.79	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	1.74	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.62	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.50	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.37	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.23	0.00	0.63	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.09	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	0.93	0.00	0.68	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	0.76	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.98	18.50	0	0.60	0.00	0.71	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	0.45	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	0.86	0.00	0.73	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.50	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.08	0.00	0.79	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.36	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.54	0.00	0.89	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.65	0.00	0.94	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.75	0.00	1.00	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.84	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	2.92	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	2.99	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.06	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.13	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.19	0.00	1.37	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.25	0.00	1.44	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.31	0.00	1.51	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.36	0.00	1.57	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.42	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.47	0.00	1.72	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.52	0.00	1.79	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.56	0.00	1.86	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.60	0.00	1.93	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.64	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.65	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.67	0.00	2.16	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.68	0.00	2.24	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.69	0.00	2.31	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.70	0.00	2.39	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.71	0.00	2.47	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.72	0.00	2.54	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	3.73	0.00	2.62	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	3.74	0.00	2.70	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	3.75	0.00	2.77	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	3.76	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	3.77	0.00	2.93	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	3.77	0.00	3.01	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	3.77	0.00	3.09	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	3.78	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	3.78	0.00	3.24	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	3.78	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	3.78	0.00	3.40	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	3.78	0.00	3.48	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	3.78	0.00	3.55	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	3.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	3.79	0.00	3.71	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	3.79	0.00	3.79	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	3.79	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	3.79	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.79	0.00	4.02	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.79	0.00	4.10	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.79	0.00	4.18	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.79	0.00	4.26	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.79	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.78	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.78	0.00	4.49	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.77	0.00	4.57	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.76	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.76	0.00	4.80	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.75	0.00	4.88	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.75	0.00	4.96	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.74	0.00	5.04	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.74	0.00	5.11	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.73	0.00	5.19	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.73	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.72	0.00	5.35	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.72	0.00	5.42	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.71	0.00	5.50	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.71	0.00	5.58	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.70	0.00	5.65	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.70	0.00	5.73	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.69	0.00	5.81	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.69	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.68	0.00	5.96	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.68	0.00	6.03	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.67	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.67	0.00	6.19	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.66	0.00	6.26	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.66	0.00	6.34	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.65	0.00	6.41	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.65	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.64	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.64	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.63	0.00	6.71	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.62	0.00	6.79	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.62	0.00	6.86	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.61	0.00	6.94	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.61	0.00	7.01	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.60	0.00	7.09	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.60	0.00	7.16	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.59	0.00	7.24	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.59	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.58	0.00	7.38	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.58	0.00	7.46	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.57	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.56	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.56	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.55	0.00	7.75	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.55	0.00	7.83	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.54	0.00	7.90	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.54	0.00	7.97	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.53	0.00	8.05	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.52	0.00	8.12	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.52	0.00	8.19	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.51	0.00	8.26	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.51	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.50	0.00	8.41	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.50	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.49	0.00	8.55	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.48	0.00	8.62	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.48	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.47	0.00	8.77	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.47	0.00	8.84	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.46	0.00	8.91	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.46	0.00	8.98	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.45	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.44	0.00	9.13	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.44	0.00	9.20	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.43	0.00	9.27	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.43	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.42	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.41	0.00	9.48	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.41	0.00	9.55	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.40	0.00	9.62	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.40	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.39	0.00	9.76	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.38	0.00	9.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.38	0.00	9.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.37	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.37	0.00	10.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.36	0.00	10.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.35	0.00	10.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.35	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.34	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.34	0.00	10.39	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.33	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.32	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.32	0.00	10.59	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.31	0.00	10.66	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.31	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.30	0.00	10.80	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.29	0.00	10.87	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.29	0.00	10.93	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.28	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.28	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.27	0.00	11.14	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.26	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.26	0.00	11.27	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.25	0.00	11.34	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.25	0.00	11.41	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.24	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.23	0.00	11.54	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.23	0.00	11.61	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.22	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.22	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.21	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.20	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.20	0.00	11.94	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.19	0.00	12.01	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.19	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.18	0.00	12.14	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.17	0.00	12.20	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.17	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.16	0.00	12.33	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.15	0.00	12.40	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.15	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.14	0.00	12.53	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.14	0.00	12.59	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.13	0.00	12.66	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.12	0.00	12.72	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.12	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.11	0.00	12.85	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.11	0.00	12.92	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.10	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.09	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.09	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.08	0.00	13.17	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.08	0.00	13.24	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.07	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.06	0.00	13.36	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.06	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.05	0.00	13.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.04	0.00	13.55	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.04	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.03	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.03	0.00	13.74	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.02	0.00	13.80	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.01	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.01	0.00	13.93	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.00	0.00	13.99	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	2.99	0.00	14.05	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	2.99	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	2.98	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	2.98	0.00	14.24	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	2.97	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	2.96	0.00	14.36	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	2.96	0.00	14.42	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	2.95	0.00	14.48	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	2.94	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	2.94	0.00	14.60	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	2.93	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	2.93	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	2.92	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	2.91	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.91	0.00	14.90	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.90	0.00	14.96	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.89	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.89	0.00	15.08	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.88	0.00	15.14	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.88	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.87	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.86	0.00	15.32	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.86	0.00	15.38	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.85	0.00	15.44	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.84	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.84	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.83	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.83	0.00	15.67	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.82	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.81	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.81	0.00	15.85	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.80	0.00	15.91	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.79	0.00	15.96	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.79	0.00	16.02	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.78	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.78	0.00	16.14	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.77	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.76	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.76	0.00	16.31	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.75	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.74	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.74	0.00	16.48	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.73	0.00	16.54	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.72	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.72	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.71	0.00	16.70	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.71	0.00	16.76	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.70	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.69	0.00	16.87	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.69	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.68	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.67	0.00	17.04	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.67	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.66	0.00	17.15	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.66	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.65	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.64	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.64	0.00	17.37	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.63	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.62	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.62	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.61	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.61	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.60	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.59	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.59	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.58	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.57	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.57	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.56	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.56	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.55	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.54	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.54	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.53	0.00	18.27	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.52	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.52	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.51	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.50	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.50	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.49	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.48	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.46	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.46	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.45	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.45	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.44	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.43	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.43	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.42	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.41	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.41	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.40	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.39	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.39	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.38	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.37	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.37	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.36	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.36	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.35	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.34	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.34	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.33	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.32	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.32	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.31	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.30	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.30	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.29	0.00	20.12	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.29	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.28	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.27	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.27	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.26	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.25	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.25	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.24	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.23	0.00	20.54	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.23	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.22	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.22	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.21	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.20	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.20	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.19	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.18	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.18	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.17	0.00	20.99	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.17	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.16	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.15	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.15	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.14	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.13	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.13	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.12	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.12	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.11	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.10	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.10	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.09	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.09	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.08	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.07	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.07	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.06	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.05	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.05	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.04	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.04	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.03	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.02	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.02	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.01	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.00	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.00	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	1.99	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	1.99	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	1.98	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	1.97	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	1.97	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	1.96	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	1.96	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	1.95	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	1.94	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	1.94	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	1.93	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.92	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.92	0.00	22.72	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.91	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.91	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.90	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.89	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.89	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.88	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.88	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.87	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.86	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.86	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.85	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.85	0.00	23.19	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.84	0.00	23.23	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.83	0.00	23.27	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.83	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.82	0.00	23.34	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.82	0.00	23.38	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.81	0.00	23.42	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.80	0.00	23.46	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.80	0.00	23.49	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.79	0.00	23.53	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.79	0.00	23.57	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.78	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.77	0.00	23.64	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.77	0.00	23.68	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.76	0.00	23.71	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.76	0.00	23.75	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.75	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.74	0.00	23.82	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.74	0.00	23.86	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.73	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.73	0.00	23.93	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.72	0.00	23.97	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.72	0.00	24.00	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.71	0.00	24.04	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.70	0.00	24.07	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.70	0.00	24.11	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.69	0.00	24.14	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.69	0.00	24.18	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.68	0.00	24.21	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.67	0.00	24.25	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.67	0.00	24.28	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.66	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.66	0.00	24.35	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.65	0.00	24.38	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.65	0.00	24.42	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.64	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.63	0.00	24.49	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.63	0.00	24.52	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.62	0.00	24.55	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.62	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.61	0.00	24.62	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.61	0.00	24.65	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.60	0.00	24.69	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.60	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.59	0.00	24.75	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.58	0.00	24.78	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.58	0.00	24.82	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.57	0.00	24.85	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.57	0.00	24.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.56	0.00	24.91	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.56	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.55	0.00	24.98	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.54	0.00	25.01	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.54	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.53	0.00	25.07	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.52	0.00	25.11	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.51	0.00	25.14	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.51	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.50	0.00	25.20	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.49	0.00	25.23	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.48	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.48	0.00	25.29	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.47	0.00	25.32	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.46	0.00	25.35	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.46	0.00	25.38	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.45	0.00	25.41	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.44	0.00	25.44	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.44	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.43	0.00	25.50	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.42	0.00	25.53	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.42	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.41	0.00	25.59	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.40	0.00	25.62	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.40	0.00	25.65	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.39	0.00	25.68	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.39	0.00	25.71	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.38	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.37	0.00	25.76	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.37	0.00	25.79	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.36	0.00	25.82	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.36	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.35	0.00	25.87	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.34	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.34	0.00	25.93	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.33	0.00	25.96	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.33	0.00	25.99	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.32	0.00	26.01	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.31	0.00	26.04	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.31	0.00	26.07	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.30	0.00	26.09	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.30	0.00	26.12	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.29	0.00	26.15	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.28	0.00	26.17	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.28	0.00	26.20	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.27	0.00	26.23	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.27	0.00	26.25	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.26	0.00	26.28	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.26	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.25	0.00	26.33	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.25	0.00	26.36	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.24	0.00	26.38	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.24	0.00	26.41	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.23	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.22	0.00	26.46	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.22	0.00	26.48	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.22	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.21	0.00	26.53	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.21	0.00	26.56	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.20	0.00	26.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.20	0.00	26.61	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.19	0.00	26.63	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.19	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.18	0.00	26.68	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.18	0.00	26.71	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.17	0.00	26.73	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.17	0.00	26.76	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.16	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.16	0.00	26.80	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.16	0.00	26.83	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.15	0.00	26.85	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.15	0.00	26.88	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.14	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.14	0.00	26.92	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.14	0.00	26.95	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.13	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.13	0.00	26.99	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.12	0.00	27.02	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.12	0.00	27.04	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.12	0.00	27.06	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.11	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.11	0.00	27.11	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.11	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.10	0.00	27.15	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.10	0.00	27.18	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.10	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.09	0.00	27.22	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.09	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.08	0.00	27.27	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.08	0.00	27.29	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.08	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.07	0.00	27.33	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.07	0.00	27.36	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.07	0.00	27.38	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.07	0.00	27.40	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.06	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.06	0.00	27.44	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.06	0.00	27.47	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.05	0.00	27.49	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.05	0.00	27.51	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.05	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.04	0.00	27.55	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.04	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.04	0.00	27.60	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.03	0.00	27.62	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.03	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.03	0.00	27.66	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.03	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.02	0.00	27.70	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.02	0.00	27.72	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.02	0.00	27.74	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.01	0.00	27.77	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.01	0.00	27.79	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.01	0.00	27.81	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.01	0.00	27.83	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.00	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.00	0.00	27.87	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.00	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.00	0.00	27.91	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	0.99	0.00	27.93	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	0.99	0.00	27.95	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	0.99	0.00	27.97	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	0.99	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	0.98	0.00	28.01	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	0.98	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.98	0.00	28.05	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.98	0.00	28.07	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.97	0.00	28.09	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.97	0.00	28.11	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.97	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.97	0.00	28.15	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.96	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.96	0.00	28.19	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.96	0.00	28.21	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.96	0.00	28.23	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.95	0.00	28.25	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.95	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.95	0.00	28.29	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.95	0.00	28.31	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.95	0.00	28.33	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.94	0.00	28.35	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.94	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.94	0.00	28.39	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.94	0.00	28.41	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.93	0.00	28.43	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.93	0.00	28.45	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.93	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.93	0.00	28.49	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.93	0.00	28.51	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.92	0.00	28.53	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.92	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.92	0.00	28.56	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.92	0.00	28.58	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.92	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.91	0.00	28.62	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.91	0.00	28.64	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.91	0.00	28.66	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.91	0.00	28.68	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.91	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.90	0.00	28.71	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.90	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.90	0.00	28.75	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.90	0.00	28.77	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.90	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.89	0.00	28.81	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.89	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.89	0.00	28.84	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.89	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.89	0.00	28.88	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	28.90	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.88	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.88	0.00	28.94	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.88	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.88	0.00	28.97	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.88	0.00	28.99	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.87	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.87	0.00	29.03	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.87	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.87	0.00	29.06	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.87	0.00	29.08	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	29.10	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.86	0.00	29.12	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.86	0.00	29.13	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.86	0.00	29.15	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.86	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.86	0.00	29.19	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.85	0.00	29.22	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.85	0.00	29.24	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.85	0.00	29.26	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.85	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	29.29	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.84	0.00	29.33	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.84	0.00	29.35	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.84	0.00	29.36	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.84	0.00	29.38	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	29.41	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.83	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.83	0.00	29.45	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.83	0.00	29.47	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.83	0.00	29.48	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	29.50	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	29.53	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.82	0.00	29.55	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.82	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.82	0.00	29.59	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	29.62	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	29.64	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.81	0.00	29.65	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.81	0.00	29.67	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.81	0.00	29.69	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.81	0.00	29.70	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	29.72	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	29.75	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.80	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.80	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.80	0.00	29.80	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	29.84	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.79	0.00	29.89	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.79	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.79	0.00	29.92	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	29.97	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.78	0.00	30.00	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.78	0.00	30.02	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.78	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	30.05	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	30.08	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	30.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.77	0.00	30.11	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.77	0.00	30.13	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.77	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	30.18	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.76	0.00	30.22	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.76	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.76	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	30.27	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	30.30	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	30.32	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	30.33	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.75	0.00	30.35	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.75	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	30.38	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	30.40	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	30.43	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.74	0.00	30.47	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.74	0.00	30.49	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	30.50	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	30.52	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	30.55	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.73	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.73	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	30.61	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	30.64	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	30.66	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	30.67	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	30.69	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.72	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.72	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	30.73	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	30.76	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	30.78	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	30.80	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.71	0.00	30.82	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.71	0.00	30.83	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	30.85	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	30.89	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	30.92	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	30.94	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.70	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	30.98	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	31.01	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	31.05	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.69	0.00	31.07	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.69	0.00	31.08	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	31.10	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	31.12	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	31.14	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	31.18	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.68	0.00	31.20	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	31.21	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	31.25	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	31.27	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	31.29	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.67	0.00	31.31	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.67	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	31.34	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	31.36	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	31.38	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	31.40	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	31.42	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.66	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	31.46	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	31.49	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	31.50	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	31.54	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.65	0.00	31.55	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	31.57	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	31.61	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	31.65	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.64	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	31.69	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	31.73	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	31.75	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	31.77	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.63	0.00	31.79	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	31.81	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	31.83	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	31.85	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	31.87	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	31.89	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.62	0.00	31.91	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	31.95	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	31.99	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	32.01	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	32.03	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.61	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	32.05	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	32.09	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	32.14	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	32.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	32.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	32.22	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	32.24	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	32.26	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.59	0.00	32.28	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	32.30	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	32.33	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	32.35	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	32.37	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	32.39	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.58	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	32.41	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	32.43	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	32.45	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	32.48	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	32.52	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	32.54	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	32.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	32.59	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	32.61	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.56	0.00	32.65	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	32.66	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	32.67	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	32.72	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	32.74	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.55	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	32.79	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	32.81	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	32.83	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	32.88	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.54	0.00	32.90	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	32.93	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	32.97	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	33.00	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	33.02	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	33.04	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	33.07	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	33.09	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	33.11	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	33.14	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	33.19	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	33.21	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	33.24	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	33.25	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	33.26	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	33.28	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.51	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	33.33	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	33.36	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	33.38	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	33.41	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	33.43	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	33.46	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	33.48	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	33.51	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	33.54	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	33.56	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	33.59	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	33.61	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	33.64	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	33.67	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	33.68	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	33.69	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	33.72	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	33.75	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	33.77	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	33.83	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	33.85	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	33.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	33.91	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	33.94	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	33.96	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	33.99	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	34.02	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	34.05	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	34.08	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	34.10	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	34.13	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	34.16	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	34.19	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	34.22	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	34.25	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	34.28	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	34.31	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	34.34	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	34.37	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	34.40	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	34.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	34.46	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	34.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	34.49	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	34.53	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	34.56	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	34.59	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	34.60	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	34.62	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	34.66	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	34.69	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	34.72	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	34.75	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	34.79	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	34.82	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	34.86	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	34.89	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	34.93	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.46	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	34.96	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	35.00	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	35.04	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	35.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	35.11	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	35.15	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	35.19	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	35.23	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	35.31	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	35.35	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	35.39	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	35.42	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	35.43	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	35.47	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	35.52	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	35.56	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	35.62	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	35.66	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	35.70	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	35.75	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	35.80	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	35.86	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	35.91	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	35.97	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	36.02	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	36.09	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	36.15	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00

Appendix C - ICPR Routing
Developed Condition
Recovery Storm Events

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

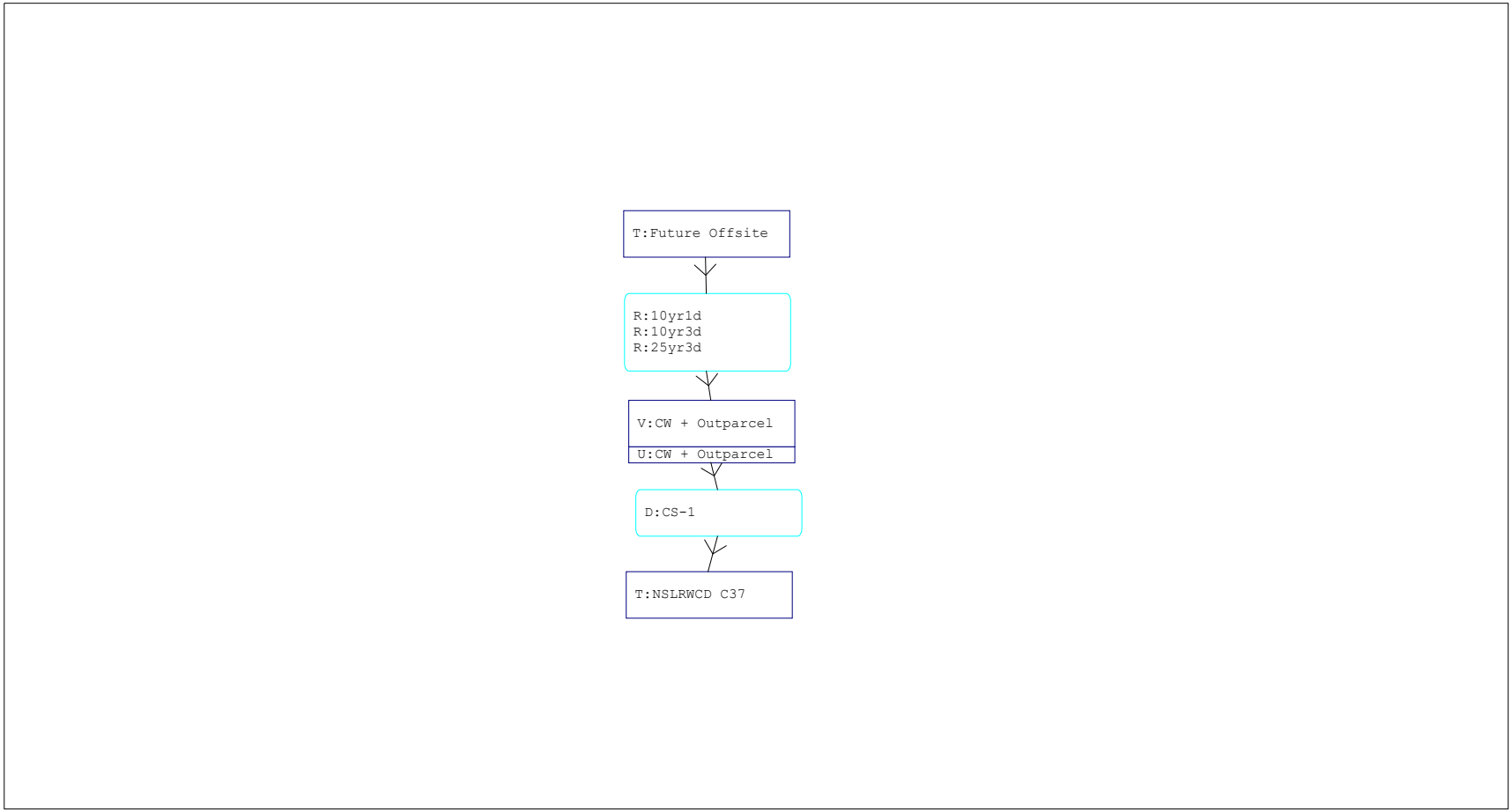
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Recovery Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

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==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 11.100
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Drop Structures ==========
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.68	18.50	0.0050	520942	60.00	155.99	0.00	0.00
CW + Outparcel	BASE	10yr1d	20.17	13.98	18.50	0.0050	176465	12.25	101.23	18.47	3.15
CW + Outparcel	BASE	10yr3d	68.21	15.32	18.50	0.0050	237336	60.00	109.13	68.24	4.10
CW + Outparcel	BASE	25yr3d	64.28	15.55	18.50	0.0050	258455	60.00	122.31	64.76	6.12
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.00	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.95	18.50	0.0243	0	18.47	3.15	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	68.24	4.10	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	64.76	6.12	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.41	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.41	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.40	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.40	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.40	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.40	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.40	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.40	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.40	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	0.40	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	0.38	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	0.34	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	0.29	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	0.27	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	0.26	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	0.24	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	0.23	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	0.22	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	0.21	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	0.20	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	0.19	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	0.18	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	0.17	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	0.16	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	0.15	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	0.10	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.03	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.11	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.15	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.19	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.21	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.24	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.26	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.28	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.32	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.40	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.50	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.62	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.75	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-0.90	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.04	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-0.93	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-0.84	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.74	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.65	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.57	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.49	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.42	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.35	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.29	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.25	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.22	0.00	-0.03	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.20	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.15	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.12	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.07	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	0.05	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	0.10	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	0.13	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	0.16	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	0.20	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	0.22	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	0.24	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	0.25	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	0.29	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	0.31	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	0.32	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	0.33	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	0.34	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	0.35	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	0.35	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	0.35	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	0.36	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	0.36	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	0.37	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	0.37	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	0.38	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	0.38	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	0.38	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.40	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.40	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.40	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.41	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.41	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.41	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.41	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.41	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.41	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.41	0.00	0.23	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.41	0.00	0.24	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.42	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.42	0.00	0.26	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.43	0.00	0.27	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.45	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.46	0.00	0.30	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.47	0.00	0.31	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.47	0.00	0.32	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.48	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.49	0.00	0.34	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.50	0.00	0.35	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.51	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.52	0.00	0.37	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.53	0.00	0.38	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.54	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.55	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.56	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.57	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.58	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.60	0.00	0.45	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.59	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	0.59	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	0.58	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	0.57	0.00	0.50	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	0.56	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	0.55	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	0.54	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	0.50	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	0.43	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	0.30	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.21	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.52	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-0.76	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-0.99	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.12	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.22	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.10	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-0.95	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-0.78	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-0.52	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-0.22	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	0.40	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	0.65	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	0.80	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	0.93	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	1.04	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	1.11	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	1.16	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	1.20	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	1.23	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	1.26	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	1.29	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	1.31	0.00	0.64	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	1.33	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	1.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	1.37	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	1.39	0.00	0.75	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	1.41	0.00	0.78	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	1.43	0.00	0.81	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	1.45	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	1.47	0.00	0.87	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	1.48	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	1.50	0.00	0.93	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	1.52	0.00	0.96	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	1.53	0.00	0.99	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	1.55	0.00	1.02	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	1.56	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	1.58	0.00	1.09	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	1.59	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	1.60	0.00	1.15	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	1.61	0.00	1.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	1.62	0.00	1.22	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	1.63	0.00	1.25	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	1.64	0.00	1.29	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	1.65	0.00	1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	1.66	0.00	1.36	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	1.67	0.00	1.39	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	1.67	0.00	1.42	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	1.68	0.00	1.46	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	1.69	0.00	1.49	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	1.70	0.00	1.53	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	1.71	0.00	1.56	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	1.72	0.00	1.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.73	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.73	0.00	1.67	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.74	0.00	1.71	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.74	0.00	1.74	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.75	0.00	1.78	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.75	0.00	1.81	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.76	0.00	1.85	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.77	0.00	1.89	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.77	0.00	1.92	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.78	0.00	1.96	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.79	0.00	2.00	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.79	0.00	2.03	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.80	0.00	2.07	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.81	0.00	2.11	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.82	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.83	0.00	2.18	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.83	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.84	0.00	2.26	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.85	0.00	2.30	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.86	0.00	2.34	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.87	0.00	2.38	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.89	0.00	2.41	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.90	0.00	2.45	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.91	0.00	2.49	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.93	0.00	2.53	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.94	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.96	0.00	2.61	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.98	0.00	2.65	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	2.00	0.00	2.69	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	2.02	0.00	2.74	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	2.04	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	2.06	0.00	2.82	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	2.08	0.00	2.86	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	2.08	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	2.08	0.00	2.95	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	2.09	0.00	2.99	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	2.09	0.00	3.03	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	2.04	0.00	3.08	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.94	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.83	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.73	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.62	0.00	3.23	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.50	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	1.39	0.00	3.29	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	1.28	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.97	18.50	0	1.18	0.00	3.34	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	1.11	0.00	3.37	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	1.31	0.00	3.39	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.78	0.00	3.42	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.28	0.00	3.47	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.53	0.00	3.51	0.00
10yr3d	NSLRWCD C37	BASE	60.75	13.13	18.50	0	2.68	0.00	3.57	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	61.26	12.97	18.50	0	2.88	0.00	3.68	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.97	0.00	3.74	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	3.04	0.00	3.81	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	3.11	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.18	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.24	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.30	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.36	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.41	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.46	0.00	4.28	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.52	0.00	4.35	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.58	0.00	4.42	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.65	0.00	4.50	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.71	0.00	4.58	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.81	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.84	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.87	0.00	4.89	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.89	0.00	4.97	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.92	0.00	5.05	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.94	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.97	0.00	5.21	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.99	0.00	5.30	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	4.01	0.00	5.38	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	4.03	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	4.05	0.00	5.54	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	4.07	0.00	5.63	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	4.09	0.00	5.71	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	4.10	0.00	5.80	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	4.09	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	4.08	0.00	5.97	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	4.07	0.00	6.05	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	4.06	0.00	6.13	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	4.06	0.00	6.22	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	4.05	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	4.04	0.00	6.39	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	4.03	0.00	6.47	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	4.02	0.00	6.55	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	4.01	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	4.01	0.00	6.72	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	4.00	0.00	6.80	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.99	0.00	6.88	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.99	0.00	6.97	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.98	0.00	7.05	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.96	0.00	7.13	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.93	0.00	7.21	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.89	0.00	7.29	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.86	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.85	0.00	7.45	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.84	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.84	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.83	0.00	7.69	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.83	0.00	7.77	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.82	0.00	7.85	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.82	0.00	7.93	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.81	0.00	8.01	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.81	0.00	8.09	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.80	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.80	0.00	8.24	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.79	0.00	8.32	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.79	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.78	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.78	0.00	8.56	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.77	0.00	8.63	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.77	0.00	8.71	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.76	0.00	8.79	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.76	0.00	8.87	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.75	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.75	0.00	9.02	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.74	0.00	9.10	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.74	0.00	9.18	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.73	0.00	9.25	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.73	0.00	9.33	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.72	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.72	0.00	9.48	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.71	0.00	9.56	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.71	0.00	9.64	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.70	0.00	9.71	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.70	0.00	9.79	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.69	0.00	9.87	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.69	0.00	9.94	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.68	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.67	0.00	10.10	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.67	0.00	10.17	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.66	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.66	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.65	0.00	10.40	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.65	0.00	10.47	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.64	0.00	10.55	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.64	0.00	10.62	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.63	0.00	10.70	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.63	0.00	10.77	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.62	0.00	10.85	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.62	0.00	10.92	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.61	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.60	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.60	0.00	11.15	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.59	0.00	11.22	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.59	0.00	11.30	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.58	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.58	0.00	11.44	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.57	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.57	0.00	11.59	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.56	0.00	11.66	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.55	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.55	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.54	0.00	11.89	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.54	0.00	11.96	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.53	0.00	12.03	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.53	0.00	12.10	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.52	0.00	12.18	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.51	0.00	12.25	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.51	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.50	0.00	12.39	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.50	0.00	12.47	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.49	0.00	12.54	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.49	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.48	0.00	12.68	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.47	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.47	0.00	12.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.46	0.00	12.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.46	0.00	12.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.45	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.44	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.44	0.00	13.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.43	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.43	0.00	13.33	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.42	0.00	13.40	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.41	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.41	0.00	13.54	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.40	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.40	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.39	0.00	13.75	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.38	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.38	0.00	13.89	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.37	0.00	13.96	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.37	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.36	0.00	14.10	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.35	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.35	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.34	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.34	0.00	14.37	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.33	0.00	14.44	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.32	0.00	14.51	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.32	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.31	0.00	14.65	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.31	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.30	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.29	0.00	14.85	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.29	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.28	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.28	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.27	0.00	15.12	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.26	0.00	15.19	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.26	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.25	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.24	0.00	15.39	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.24	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.23	0.00	15.53	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.23	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.22	0.00	15.66	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.21	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.21	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.20	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.20	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.19	0.00	15.99	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.18	0.00	16.06	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.18	0.00	16.12	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.17	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.16	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.16	0.00	16.32	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.15	0.00	16.38	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.15	0.00	16.45	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.14	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.13	0.00	16.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.13	0.00	16.64	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.12	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.12	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.11	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.10	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.10	0.00	16.96	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.09	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.08	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	3.08	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	3.07	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	3.07	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	3.06	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	3.05	0.00	17.41	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	3.05	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	3.04	0.00	17.54	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	3.03	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	3.03	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	3.02	0.00	17.72	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	3.02	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	3.01	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	3.00	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	3.00	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.99	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.98	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.98	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.97	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.96	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.96	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.95	0.00	18.40	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.95	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.94	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.93	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.93	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.92	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.91	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.91	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.90	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.90	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.89	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.88	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.88	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.87	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.86	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.86	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.85	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.84	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.84	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.83	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.83	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.82	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.81	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.81	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.80	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.79	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.79	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.78	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.77	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.77	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.76	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.76	0.00	20.23	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.75	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.74	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.74	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.73	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.72	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.72	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.71	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.70	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.70	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.69	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.69	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.68	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.67	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.67	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.66	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.65	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.65	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.64	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.63	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.63	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.62	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.61	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.61	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.60	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.60	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.59	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.58	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.58	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.57	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.56	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.56	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.55	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.54	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.54	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.53	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.52	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.52	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.51	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.50	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.50	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.49	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.48	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.48	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.47	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.46	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.46	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.45	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.44	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.44	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.43	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.42	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.42	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.41	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.41	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.40	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.39	0.00	23.21	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.39	0.00	23.26	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.38	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.37	0.00	23.36	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.37	0.00	23.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.36	0.00	23.45	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.35	0.00	23.50	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.35	0.00	23.55	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.34	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.33	0.00	23.65	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.33	0.00	23.70	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.32	0.00	23.74	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.31	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.31	0.00	23.84	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.30	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.30	0.00	23.94	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.29	0.00	23.98	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.28	0.00	24.03	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.28	0.00	24.08	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.27	0.00	24.12	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.26	0.00	24.17	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.26	0.00	24.22	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.25	0.00	24.26	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.24	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.24	0.00	24.36	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.23	0.00	24.40	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.22	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.22	0.00	24.50	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.21	0.00	24.54	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.21	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.20	0.00	24.63	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.20	0.00	24.68	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.19	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.18	0.00	24.77	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.18	0.00	24.81	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.17	0.00	24.86	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.16	0.00	24.90	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.16	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.15	0.00	24.99	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.14	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.14	0.00	25.08	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.13	0.00	25.12	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.12	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.12	0.00	25.21	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.11	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.11	0.00	25.30	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.10	0.00	25.34	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.09	0.00	25.39	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.09	0.00	25.43	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.08	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.07	0.00	25.52	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.07	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	2.06	0.00	25.60	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	2.05	0.00	25.64	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	2.05	0.00	25.69	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	2.04	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	2.04	0.00	25.77	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	2.03	0.00	25.81	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	2.02	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	2.02	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	2.01	0.00	25.94	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	2.00	0.00	25.98	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	2.00	0.00	26.02	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.99	0.00	26.06	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.99	0.00	26.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.98	0.00	26.14	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.97	0.00	26.18	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.97	0.00	26.22	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.96	0.00	26.27	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.95	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.95	0.00	26.35	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.94	0.00	26.39	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.94	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.93	0.00	26.47	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.92	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.92	0.00	26.55	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.91	0.00	26.59	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.90	0.00	26.62	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.90	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.89	0.00	26.70	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.89	0.00	26.74	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.88	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.87	0.00	26.82	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.87	0.00	26.86	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.86	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.86	0.00	26.94	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.85	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.84	0.00	27.01	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.84	0.00	27.05	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.83	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.83	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.82	0.00	27.16	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.81	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.81	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.80	0.00	27.28	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.79	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.79	0.00	27.35	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.78	0.00	27.39	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.78	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.77	0.00	27.46	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.76	0.00	27.50	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.76	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.75	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.75	0.00	27.61	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.74	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.73	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.73	0.00	27.71	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.72	0.00	27.75	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.72	0.00	27.78	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.71	0.00	27.82	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.71	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.70	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.69	0.00	27.93	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.69	0.00	27.96	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.68	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.68	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.67	0.00	28.06	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.66	0.00	28.10	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.66	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.65	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.65	0.00	28.20	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.64	0.00	28.24	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.64	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.63	0.00	28.30	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.62	0.00	28.34	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.62	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.61	0.00	28.40	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.61	0.00	28.44	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.60	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.59	0.00	28.50	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.59	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.58	0.00	28.57	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.58	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.57	0.00	28.63	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.57	0.00	28.67	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.56	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.55	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.55	0.00	28.76	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.54	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.53	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.53	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.52	0.00	28.89	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.51	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.50	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.50	0.00	28.98	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.49	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.48	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.47	0.00	29.07	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.47	0.00	29.11	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.46	0.00	29.14	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.45	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.45	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.44	0.00	29.23	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.43	0.00	29.25	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.43	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.42	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.41	0.00	29.34	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.41	0.00	29.37	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.40	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.39	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.39	0.00	29.46	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.38	0.00	29.49	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.38	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.37	0.00	29.54	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.36	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.36	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.35	0.00	29.63	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.35	0.00	29.66	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.34	0.00	29.68	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.33	0.00	29.71	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.33	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.32	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.31	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.31	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.30	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.30	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.29	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.28	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.28	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.27	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.27	0.00	30.01	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.26	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.25	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.25	0.00	30.09	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.24	0.00	30.11	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.24	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.23	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.23	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.22	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.22	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.21	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.21	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.20	0.00	30.31	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.20	0.00	30.34	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.19	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.19	0.00	30.39	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.18	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.18	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.17	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.17	0.00	30.48	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.17	0.00	30.51	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.16	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.16	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.15	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.15	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.14	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.14	0.00	30.65	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.14	0.00	30.68	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.13	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.13	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.12	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.12	0.00	30.77	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.12	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.11	0.00	30.81	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.11	0.00	30.84	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.11	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.10	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.10	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.09	0.00	30.93	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.09	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.09	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.08	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.08	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.08	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.07	0.00	31.06	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.07	0.00	31.09	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.07	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.06	0.00	31.13	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.06	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.06	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.05	0.00	31.19	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.05	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.05	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.04	0.00	31.26	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.04	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.04	0.00	31.30	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.03	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.03	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.03	0.00	31.37	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.03	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.02	0.00	31.41	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.02	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.02	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.01	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	1.01	0.00	31.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	1.01	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	1.01	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	1.00	0.00	31.56	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	1.00	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	1.00	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.99	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.99	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.99	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.99	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.98	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.98	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.98	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.98	0.00	31.76	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.97	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.97	0.00	31.80	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.97	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.97	0.00	31.84	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.96	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.96	0.00	31.88	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.96	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.96	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.95	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.95	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.95	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.95	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.95	0.00	32.02	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.94	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.94	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.94	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.94	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.93	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.93	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.93	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.93	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.93	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.92	0.00	32.21	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.92	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.92	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.92	0.00	32.27	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.91	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.91	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.91	0.00	32.32	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.91	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.91	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.90	0.00	32.38	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.90	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.90	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.90	0.00	32.44	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.90	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.89	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.89	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.89	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.89	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.89	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.88	0.00	32.58	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.88	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.88	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.88	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.88	0.00	32.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.87	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.87	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.87	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.87	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.87	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.86	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.86	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.86	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.86	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.85	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.85	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.85	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.85	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.84	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.84	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.84	0.00	33.05	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.84	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.83	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.83	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.83	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.82	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.82	0.00	33.25	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.82	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.82	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.81	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.81	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.81	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.80	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.80	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.80	0.00	33.50	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.79	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.79	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.79	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	33.68	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.78	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.78	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.78	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.77	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.77	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.77	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.76	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.76	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.75	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.75	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.74	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.74	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.73	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.73	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.72	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.72	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	34.48	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.71	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	34.60	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.70	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.70	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.69	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.68	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.68	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.67	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.66	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.65	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.64	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	35.42	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.63	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	35.62	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.62	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.60	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.59	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	36.16	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	36.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	36.18	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	36.19	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	36.20	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	36.22	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	36.23	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.57	0.00	36.24	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	36.25	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	36.26	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	36.27	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	36.28	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	36.30	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	36.31	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	36.32	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	36.33	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	36.34	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	36.35	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.56	0.00	36.37	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	36.38	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	36.39	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	36.40	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	36.41	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	36.42	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	36.43	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	36.45	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	36.46	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	36.47	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	36.48	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.55	0.00	36.49	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	36.50	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	36.51	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	36.52	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	36.54	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	36.55	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	36.56	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	36.57	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	36.58	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	36.59	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	36.60	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	36.61	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	36.62	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	36.64	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	36.65	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	36.66	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	36.67	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	36.68	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	36.69	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	36.70	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	36.71	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	36.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	36.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	36.75	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	36.76	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	36.77	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	36.78	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	36.79	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	36.80	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	36.81	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	36.82	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	36.83	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	36.84	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	36.85	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	36.86	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	36.87	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	36.89	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	36.90	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.52	0.00	36.91	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	36.92	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	36.93	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	36.94	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	36.95	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	36.96	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	36.97	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	36.98	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	36.99	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	37.00	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	37.01	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	37.02	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	37.03	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	37.04	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	37.05	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	37.06	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	37.08	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	37.09	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	37.10	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	37.11	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	37.12	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	37.13	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	37.14	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	37.15	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	37.16	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	37.17	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	37.18	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	37.19	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	37.20	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	37.21	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	37.22	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	37.23	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	37.24	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	37.25	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	37.26	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	37.27	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	37.28	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	37.29	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	37.30	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	37.31	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	37.32	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	37.33	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	37.34	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	37.36	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	37.37	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	37.38	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	37.39	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	37.40	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	37.41	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	37.42	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	37.43	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	37.44	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	37.45	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	37.46	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	37.47	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	37.48	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	37.49	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	37.50	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	37.51	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	37.52	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	37.53	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	37.54	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	37.55	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	37.56	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	37.57	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	37.58	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	37.59	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	37.60	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	37.61	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	37.62	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	37.63	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	37.64	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	37.65	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	37.66	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	37.67	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	37.68	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	37.69	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	37.70	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	37.71	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	37.72	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	37.73	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	37.74	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	37.75	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	37.76	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	37.77	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	37.78	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	37.79	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	37.80	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	37.81	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	37.82	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	37.83	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	37.84	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	37.85	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	37.86	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	37.87	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	37.88	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	37.89	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	37.90	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	37.91	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	37.92	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	37.93	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	37.94	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	37.95	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	37.96	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	37.97	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	37.98	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	37.99	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	38.00	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	38.01	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	38.02	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	38.03	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	38.04	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	38.05	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	38.06	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	38.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	38.08	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	38.09	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	38.10	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	38.11	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	38.12	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	38.13	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	38.14	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	38.15	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	38.16	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	38.17	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	38.18	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	38.19	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	38.20	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	38.21	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	38.22	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	38.23	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	38.24	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	38.25	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	38.26	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	38.27	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	38.28	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	38.29	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	38.30	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	38.31	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	38.32	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	38.33	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	38.34	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	38.35	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	38.36	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	38.37	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	38.38	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	38.39	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	38.40	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	38.41	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	38.42	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	38.43	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	38.44	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	38.45	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	38.46	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	38.47	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	38.48	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	38.49	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	38.51	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	38.52	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	38.53	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.47	0.00	38.54	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	38.55	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	38.56	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	38.57	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	38.58	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	38.59	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	38.60	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	38.61	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	38.62	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	38.63	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	38.64	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	38.65	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	38.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	38.67	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	38.68	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	38.69	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	38.70	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	38.71	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	38.73	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	38.74	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	38.75	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	38.76	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	38.77	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	38.78	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	38.79	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	38.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	38.81	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	38.82	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	38.83	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	38.84	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	38.85	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	38.86	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	38.88	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	38.89	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	38.90	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	38.91	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	38.92	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	38.93	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	38.94	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	38.95	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	38.96	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	38.97	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	38.98	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	38.99	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	39.01	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	39.02	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	39.03	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	39.04	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	39.05	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	39.06	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	39.07	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	39.08	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	39.09	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	39.10	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	39.12	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	39.13	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	39.14	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	39.15	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	39.16	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	39.17	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	39.18	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	39.19	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	39.20	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	39.21	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	39.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	39.22	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	39.23	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	39.24	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	39.25	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	39.26	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	39.27	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	39.28	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	39.29	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	39.31	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	39.32	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	39.33	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	39.34	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	39.35	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	39.36	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	39.37	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	39.39	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	39.40	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	39.41	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	39.42	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	39.43	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	39.44	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	39.46	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	39.47	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	39.48	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	39.49	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	39.50	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	39.51	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	39.53	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	39.54	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	39.55	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	39.56	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	39.57	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	39.59	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	39.60	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	39.61	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	39.62	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	39.63	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	39.65	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	39.66	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	39.67	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	39.68	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	39.69	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	39.71	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	39.72	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	39.73	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	39.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00

Appendix D - ICPR Routing
Existing Off-Site Condition Model

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

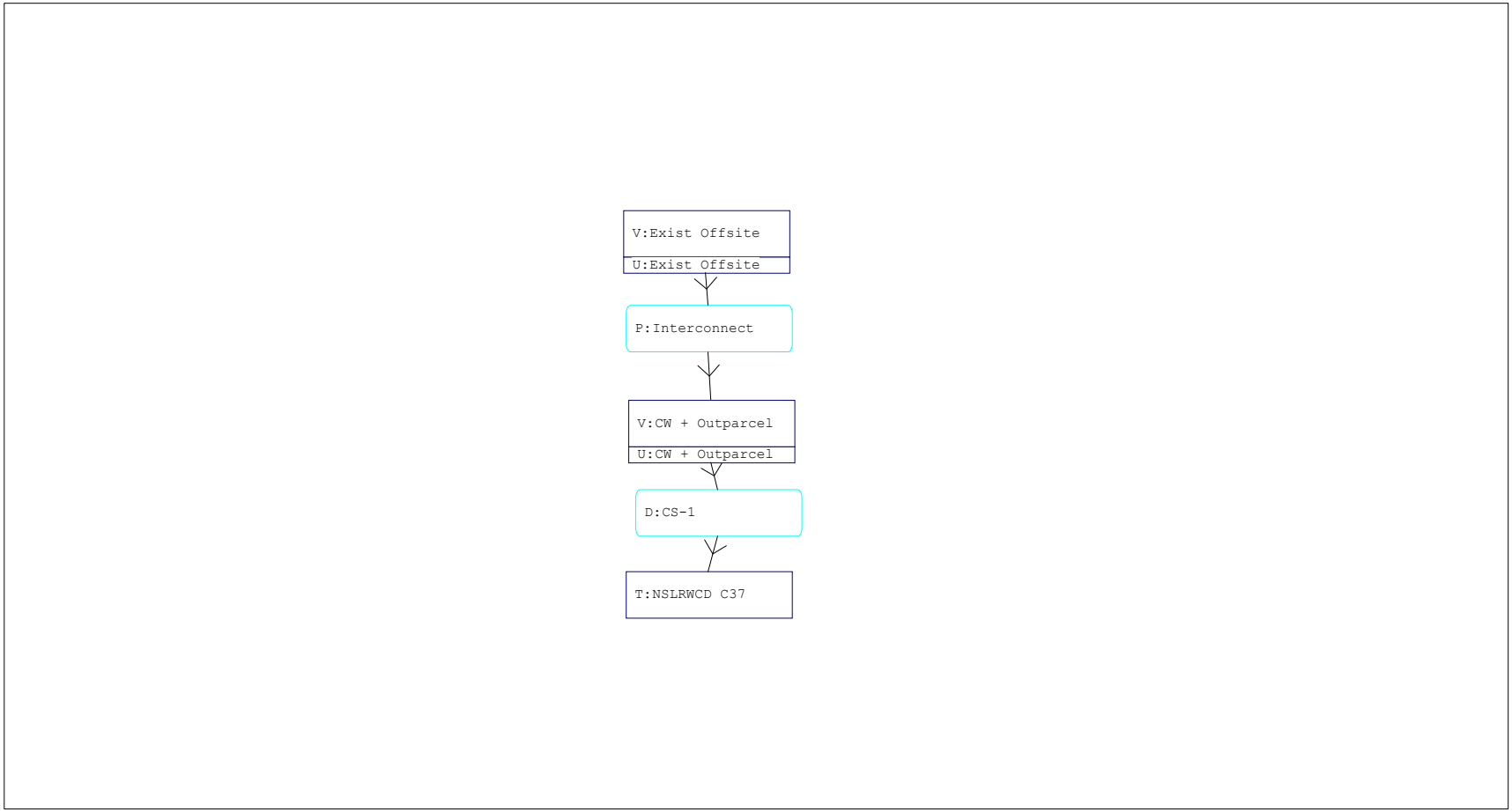
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Existing Off-Site Condition Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Exist Offsite Node: Exist Offsite Status: Onsite
Group: Offsite Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 16.030 Time Shift(hrs): 0.00
Curve Number: 64.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Exist Offsite Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: Offsite Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	0.3300
11.000	0.6600
11.500	0.9900
12.000	1.3200
12.500	1.6500
13.500	2.3200
14.500	5.5400
15.500	13.8900
16.500	27.3500
17.500	43.3800
18.500	59.4100

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780

62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Pipes ====
==========

Name: Interconnect From Node: Exist Offsite Length(ft): 144.00
Group: BASE To Node: CW + Outparcel Count: 1
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.00
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	9.500	5.000
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

==========
==== Drop Structures ====
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Solution Incs: 10

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	8.650	8.440
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

==========
==== Hydrology Simulations ==========
==========

Name: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 12.23

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Scsiii
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

Name: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 9.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

==========
==== Routing Simulations ==========
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Name: 100yr3d Hydrology Sim: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
BASE Yes
Offsite Yes

Name: 10yr1d Hydrology Sim: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr1d Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
10yr1d Yes
BASE Yes
Offsite Yes
Outfalls Yes

Name: 10yr3d Hydrology Sim: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
10yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==========
==== Boundary Conditions ====
==========

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830

56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	72.88	15.57	18.50	0.0050	263581	60.00	134.38	0.00	0.00
CW + Outparcel	BASE	10yr1d	22.13	13.20	18.50	0.0050	163152	12.25	105.61	22.46	2.60
CW + Outparcel	BASE	10yr3d	68.48	14.45	18.50	0.0050	186591	60.00	102.60	72.00	3.39
CW + Outparcel	BASE	25yr3d	72.00	14.71	18.50	0.0050	200623	60.00	111.46	72.03	3.55
Exist Offsite	Offsite	100yr3d	73.03	15.57	18.50	0.0050	487057	60.00	68.72	33.42	5.55
Exist Offsite	Offsite	10yr1d	22.13	13.20	18.50	0.0050	68196	12.25	26.08	161.98	10.23
Exist Offsite	Offsite	10yr3d	68.52	14.45	18.50	0.0050	243084	60.00	40.99	246.24	11.36
Exist Offsite	Offsite	25yr3d	72.01	14.71	18.50	0.0050	299401	60.00	48.36	256.04	10.02
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.94	18.50	0.0243	0	22.46	2.60	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.00	3.39	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	72.03	3.55	0.00	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.08	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.22	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.12	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.03	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.94	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.86	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.78	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.71	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.64	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.59	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.54	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.50	0.00	-0.48	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.49	0.00	-0.49	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.48	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.47	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.46	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.45	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.44	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.43	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.42	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.41	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.40	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.39	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.38	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.37	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.36	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.35	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.34	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.33	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.32	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.30	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.29	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.28	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.26	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.26	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.24	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.23	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.23	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.22	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.21	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.21	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.20	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	-0.19	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	-0.17	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	-0.16	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	-0.15	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	-0.15	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	-0.18	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	-0.18	0.00	-0.80	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	-0.18	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	-0.20	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	-0.24	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.27	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.30	0.00	-0.85	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.32	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.34	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.36	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.38	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.44	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.71	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.88	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-1.06	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.26	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.44	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.57	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.67	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.60	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.52	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.44	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.34	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.23	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.10	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.98	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.86	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.75	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.65	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.55	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.47	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.39	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.33	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	-0.30	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	-0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	-0.26	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	-0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	-0.22	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	-0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	-0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	-0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	-0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	-0.01	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.21	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.25	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.27	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.28	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.29	0.00	-1.35	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.30	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.30	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.31	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.32	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.32	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.33	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.33	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.35	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.35	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.36	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	0.36	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	0.36	0.00	-1.25	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	0.36	0.00	-1.23	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	0.36	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	0.35	0.00	-1.20	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	0.35	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	0.35	0.00	-1.17	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	0.35	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	0.35	0.00	-1.14	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	0.35	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	0.34	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	0.34	0.00	-1.12	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	0.34	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	0.35	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	0.37	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	0.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	0.41	0.00	-1.07	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	0.44	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	0.47	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	0.50	0.00	-1.04	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	0.54	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	0.59	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	0.64	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	0.66	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	0.69	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	0.71	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	0.68	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	0.60	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	0.36	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	-0.43	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	-0.72	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	-0.91	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	-1.07	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	-1.19	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	59.01	12.84	18.50	0	-1.28	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	59.25	12.97	18.50	0	-1.35	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	59.51	13.11	18.50	0	-1.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	-1.14	0.00	-1.10	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	0.53	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	1.50	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	1.82	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.01	0.00	-1.01	0.00
10yr3d	NSLRWCD C37	BASE	61.01	13.05	18.50	0	2.13	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.23	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	61.52	12.89	18.50	0	2.33	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	61.77	12.81	18.50	0	2.42	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	62.02	12.73	18.50	0	2.50	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	62.27	12.66	18.50	0	2.58	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	62.52	12.58	18.50	0	2.65	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	62.77	12.50	18.50	0	2.72	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	63.02	12.42	18.50	0	2.79	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	63.27	12.34	18.50	0	2.85	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	63.52	12.26	18.50	0	2.92	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	63.77	12.18	18.50	0	2.98	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	64.02	12.11	18.50	0	3.04	0.00	-0.32	0.00
10yr3d	NSLRWCD C37	BASE	64.27	12.04	18.50	0	3.09	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	64.52	11.97	18.50	0	3.14	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	64.77	11.90	18.50	0	3.18	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	65.02	11.83	18.50	0	3.22	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	65.27	11.77	18.50	0	3.23	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	65.52	11.70	18.50	0	3.25	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	65.77	11.63	18.50	0	3.26	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	66.02	11.56	18.50	0	3.28	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	66.27	11.49	18.50	0	3.29	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	66.52	11.42	18.50	0	3.30	0.00	0.35	0.00
10yr3d	NSLRWCD C37	BASE	66.77	11.36	18.50	0	3.31	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	67.02	11.29	18.50	0	3.32	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	67.27	11.22	18.50	0	3.33	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	67.52	11.15	18.50	0	3.34	0.00	0.62	0.00
10yr3d	NSLRWCD C37	BASE	67.77	11.08	18.50	0	3.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	68.02	11.02	18.50	0	3.36	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	68.27	11.00	18.50	0	3.36	0.00	0.83	0.00
10yr3d	NSLRWCD C37	BASE	68.52	10.98	18.50	0	3.36	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	68.77	10.96	18.50	0	3.36	0.00	0.97	0.00
10yr3d	NSLRWCD C37	BASE	69.02	10.94	18.50	0	3.37	0.00	1.04	0.00
10yr3d	NSLRWCD C37	BASE	69.27	10.92	18.50	0	3.37	0.00	1.11	0.00
10yr3d	NSLRWCD C37	BASE	69.52	10.90	18.50	0	3.37	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	69.77	10.88	18.50	0	3.37	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	70.02	10.86	18.50	0	3.37	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	70.27	10.84	18.50	0	3.37	0.00	1.38	0.00
10yr3d	NSLRWCD C37	BASE	70.52	10.82	18.50	0	3.38	0.00	1.45	0.00
10yr3d	NSLRWCD C37	BASE	70.77	10.80	18.50	0	3.38	0.00	1.52	0.00
10yr3d	NSLRWCD C37	BASE	71.02	10.78	18.50	0	3.38	0.00	1.59	0.00
10yr3d	NSLRWCD C37	BASE	71.27	10.76	18.50	0	3.38	0.00	1.66	0.00
10yr3d	NSLRWCD C37	BASE	71.52	10.74	18.50	0	3.38	0.00	1.73	0.00
10yr3d	NSLRWCD C37	BASE	71.77	10.72	18.50	0	3.39	0.00	1.80	0.00
10yr3d	NSLRWCD C37	BASE	72.02	10.70	18.50	0	3.39	0.00	1.87	0.00
10yr3d	NSLRWCD C37	BASE	72.27	10.70	18.50	0	3.39	0.00	1.94	0.00
10yr3d	NSLRWCD C37	BASE	72.52	10.69	18.50	0	3.38	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	72.77	10.69	18.50	0	3.38	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	73.02	10.69	18.50	0	3.37	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	73.27	10.69	18.50	0	3.37	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	73.52	10.68	18.50	0	3.37	0.00	2.29	0.00
10yr3d	NSLRWCD C37	BASE	73.77	10.68	18.50	0	3.36	0.00	2.36	0.00
10yr3d	NSLRWCD C37	BASE	74.02	10.68	18.50	0	3.36	0.00	2.43	0.00
10yr3d	NSLRWCD C37	BASE	74.27	10.68	18.50	0	3.35	0.00	2.50	0.00
10yr3d	NSLRWCD C37	BASE	74.52	10.67	18.50	0	3.35	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	74.77	10.67	18.50	0	3.35	0.00	2.64	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.02	10.67	18.50	0	3.34	0.00	2.71	0.00
10yr3d	NSLRWCD C37	BASE	75.27	10.67	18.50	0	3.34	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	75.52	10.66	18.50	0	3.33	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	75.77	10.66	18.50	0	3.33	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	76.02	10.66	18.50	0	3.32	0.00	2.98	0.00
10yr3d	NSLRWCD C37	BASE	76.27	10.66	18.50	0	3.32	0.00	3.05	0.00
10yr3d	NSLRWCD C37	BASE	76.52	10.65	18.50	0	3.32	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	76.77	10.65	18.50	0	3.31	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	77.02	10.65	18.50	0	3.31	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	77.27	10.65	18.50	0	3.30	0.00	3.33	0.00
10yr3d	NSLRWCD C37	BASE	77.52	10.64	18.50	0	3.30	0.00	3.39	0.00
10yr3d	NSLRWCD C37	BASE	77.77	10.64	18.50	0	3.29	0.00	3.46	0.00
10yr3d	NSLRWCD C37	BASE	78.02	10.64	18.50	0	3.29	0.00	3.53	0.00
10yr3d	NSLRWCD C37	BASE	78.27	10.64	18.50	0	3.29	0.00	3.60	0.00
10yr3d	NSLRWCD C37	BASE	78.52	10.63	18.50	0	3.28	0.00	3.67	0.00
10yr3d	NSLRWCD C37	BASE	78.77	10.63	18.50	0	3.28	0.00	3.73	0.00
10yr3d	NSLRWCD C37	BASE	79.02	10.63	18.50	0	3.27	0.00	3.80	0.00
10yr3d	NSLRWCD C37	BASE	79.27	10.63	18.50	0	3.27	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	79.52	10.62	18.50	0	3.26	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	79.77	10.62	18.50	0	3.26	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	80.02	10.62	18.50	0	3.25	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	80.27	10.62	18.50	0	3.25	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	80.52	10.61	18.50	0	3.25	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	80.77	10.61	18.50	0	3.24	0.00	4.27	0.00
10yr3d	NSLRWCD C37	BASE	81.02	10.61	18.50	0	3.24	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	81.27	10.61	18.50	0	3.23	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	81.52	10.60	18.50	0	3.23	0.00	4.47	0.00
10yr3d	NSLRWCD C37	BASE	81.77	10.60	18.50	0	3.22	0.00	4.54	0.00
10yr3d	NSLRWCD C37	BASE	82.02	10.60	18.50	0	3.22	0.00	4.61	0.00
10yr3d	NSLRWCD C37	BASE	82.27	10.60	18.50	0	3.21	0.00	4.67	0.00
10yr3d	NSLRWCD C37	BASE	82.52	10.59	18.50	0	3.21	0.00	4.74	0.00
10yr3d	NSLRWCD C37	BASE	82.77	10.59	18.50	0	3.20	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	83.02	10.59	18.50	0	3.20	0.00	4.87	0.00
10yr3d	NSLRWCD C37	BASE	83.27	10.59	18.50	0	3.19	0.00	4.94	0.00
10yr3d	NSLRWCD C37	BASE	83.52	10.58	18.50	0	3.19	0.00	5.00	0.00
10yr3d	NSLRWCD C37	BASE	83.77	10.58	18.50	0	3.18	0.00	5.07	0.00
10yr3d	NSLRWCD C37	BASE	84.02	10.58	18.50	0	3.18	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	84.27	10.58	18.50	0	3.18	0.00	5.20	0.00
10yr3d	NSLRWCD C37	BASE	84.52	10.57	18.50	0	3.17	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	84.77	10.57	18.50	0	3.17	0.00	5.33	0.00
10yr3d	NSLRWCD C37	BASE	85.02	10.57	18.50	0	3.16	0.00	5.40	0.00
10yr3d	NSLRWCD C37	BASE	85.27	10.57	18.50	0	3.16	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	85.52	10.56	18.50	0	3.15	0.00	5.53	0.00
10yr3d	NSLRWCD C37	BASE	85.77	10.56	18.50	0	3.15	0.00	5.59	0.00
10yr3d	NSLRWCD C37	BASE	86.02	10.56	18.50	0	3.14	0.00	5.66	0.00
10yr3d	NSLRWCD C37	BASE	86.27	10.56	18.50	0	3.14	0.00	5.72	0.00
10yr3d	NSLRWCD C37	BASE	86.52	10.55	18.50	0	3.13	0.00	5.79	0.00
10yr3d	NSLRWCD C37	BASE	86.77	10.55	18.50	0	3.13	0.00	5.85	0.00
10yr3d	NSLRWCD C37	BASE	87.02	10.55	18.50	0	3.12	0.00	5.92	0.00
10yr3d	NSLRWCD C37	BASE	87.27	10.55	18.50	0	3.12	0.00	5.98	0.00
10yr3d	NSLRWCD C37	BASE	87.52	10.54	18.50	0	3.11	0.00	6.04	0.00
10yr3d	NSLRWCD C37	BASE	87.77	10.54	18.50	0	3.10	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	88.02	10.54	18.50	0	3.10	0.00	6.17	0.00
10yr3d	NSLRWCD C37	BASE	88.27	10.54	18.50	0	3.09	0.00	6.24	0.00
10yr3d	NSLRWCD C37	BASE	88.52	10.53	18.50	0	3.09	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	88.77	10.53	18.50	0	3.08	0.00	6.36	0.00
10yr3d	NSLRWCD C37	BASE	89.02	10.53	18.50	0	3.08	0.00	6.43	0.00
10yr3d	NSLRWCD C37	BASE	89.27	10.52	18.50	0	3.07	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	89.52	10.52	18.50	0	3.07	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	89.77	10.52	18.50	0	3.06	0.00	6.62	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.02	10.52	18.50	0	3.06	0.00	6.68	0.00
10yr3d	NSLRWCD C37	BASE	90.27	10.51	18.50	0	3.05	0.00	6.74	0.00
10yr3d	NSLRWCD C37	BASE	90.52	10.51	18.50	0	3.05	0.00	6.81	0.00
10yr3d	NSLRWCD C37	BASE	90.77	10.51	18.50	0	3.04	0.00	6.87	0.00
10yr3d	NSLRWCD C37	BASE	91.02	10.51	18.50	0	3.04	0.00	6.93	0.00
10yr3d	NSLRWCD C37	BASE	91.27	10.50	18.50	0	3.03	0.00	7.00	0.00
10yr3d	NSLRWCD C37	BASE	91.52	10.50	18.50	0	3.02	0.00	7.06	0.00
10yr3d	NSLRWCD C37	BASE	91.77	10.50	18.50	0	3.02	0.00	7.12	0.00
10yr3d	NSLRWCD C37	BASE	92.02	10.50	18.50	0	3.01	0.00	7.18	0.00
10yr3d	NSLRWCD C37	BASE	92.27	10.49	18.50	0	3.01	0.00	7.25	0.00
10yr3d	NSLRWCD C37	BASE	92.52	10.49	18.50	0	3.00	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	92.77	10.49	18.50	0	3.00	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	93.02	10.49	18.50	0	2.99	0.00	7.43	0.00
10yr3d	NSLRWCD C37	BASE	93.27	10.48	18.50	0	2.98	0.00	7.49	0.00
10yr3d	NSLRWCD C37	BASE	93.52	10.48	18.50	0	2.98	0.00	7.55	0.00
10yr3d	NSLRWCD C37	BASE	93.77	10.48	18.50	0	2.97	0.00	7.62	0.00
10yr3d	NSLRWCD C37	BASE	94.02	10.48	18.50	0	2.97	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	94.27	10.47	18.50	0	2.96	0.00	7.74	0.00
10yr3d	NSLRWCD C37	BASE	94.52	10.47	18.50	0	2.95	0.00	7.80	0.00
10yr3d	NSLRWCD C37	BASE	94.77	10.47	18.50	0	2.95	0.00	7.86	0.00
10yr3d	NSLRWCD C37	BASE	95.02	10.47	18.50	0	2.94	0.00	7.92	0.00
10yr3d	NSLRWCD C37	BASE	95.27	10.46	18.50	0	2.94	0.00	7.98	0.00
10yr3d	NSLRWCD C37	BASE	95.52	10.46	18.50	0	2.93	0.00	8.04	0.00
10yr3d	NSLRWCD C37	BASE	95.77	10.46	18.50	0	2.92	0.00	8.10	0.00
10yr3d	NSLRWCD C37	BASE	96.02	10.46	18.50	0	2.92	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	96.27	10.45	18.50	0	2.91	0.00	8.22	0.00
10yr3d	NSLRWCD C37	BASE	96.52	10.45	18.50	0	2.91	0.00	8.28	0.00
10yr3d	NSLRWCD C37	BASE	96.77	10.45	18.50	0	2.90	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	97.02	10.45	18.50	0	2.89	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	97.27	10.44	18.50	0	2.89	0.00	8.46	0.00
10yr3d	NSLRWCD C37	BASE	97.52	10.44	18.50	0	2.88	0.00	8.52	0.00
10yr3d	NSLRWCD C37	BASE	97.77	10.44	18.50	0	2.87	0.00	8.58	0.00
10yr3d	NSLRWCD C37	BASE	98.02	10.44	18.50	0	2.87	0.00	8.64	0.00
10yr3d	NSLRWCD C37	BASE	98.27	10.43	18.50	0	2.86	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	98.52	10.43	18.50	0	2.85	0.00	8.76	0.00
10yr3d	NSLRWCD C37	BASE	98.77	10.43	18.50	0	2.85	0.00	8.82	0.00
10yr3d	NSLRWCD C37	BASE	99.02	10.43	18.50	0	2.84	0.00	8.88	0.00
10yr3d	NSLRWCD C37	BASE	99.27	10.42	18.50	0	2.83	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	99.52	10.42	18.50	0	2.83	0.00	9.00	0.00
10yr3d	NSLRWCD C37	BASE	99.77	10.42	18.50	0	2.82	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	100.02	10.42	18.50	0	2.81	0.00	9.11	0.00
10yr3d	NSLRWCD C37	BASE	100.27	10.41	18.50	0	2.81	0.00	9.17	0.00
10yr3d	NSLRWCD C37	BASE	100.52	10.41	18.50	0	2.80	0.00	9.23	0.00
10yr3d	NSLRWCD C37	BASE	100.77	10.41	18.50	0	2.79	0.00	9.29	0.00
10yr3d	NSLRWCD C37	BASE	101.02	10.41	18.50	0	2.78	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	101.27	10.40	18.50	0	2.78	0.00	9.40	0.00
10yr3d	NSLRWCD C37	BASE	101.52	10.40	18.50	0	2.77	0.00	9.46	0.00
10yr3d	NSLRWCD C37	BASE	101.77	10.40	18.50	0	2.76	0.00	9.51	0.00
10yr3d	NSLRWCD C37	BASE	102.02	10.40	18.50	0	2.76	0.00	9.57	0.00
10yr3d	NSLRWCD C37	BASE	102.27	10.39	18.50	0	2.75	0.00	9.63	0.00
10yr3d	NSLRWCD C37	BASE	102.52	10.39	18.50	0	2.74	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	102.77	10.39	18.50	0	2.73	0.00	9.74	0.00
10yr3d	NSLRWCD C37	BASE	103.02	10.39	18.50	0	2.73	0.00	9.80	0.00
10yr3d	NSLRWCD C37	BASE	103.27	10.38	18.50	0	2.72	0.00	9.85	0.00
10yr3d	NSLRWCD C37	BASE	103.52	10.38	18.50	0	2.71	0.00	9.91	0.00
10yr3d	NSLRWCD C37	BASE	103.77	10.38	18.50	0	2.70	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	104.02	10.38	18.50	0	2.70	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	104.27	10.37	18.50	0	2.69	0.00	10.08	0.00
10yr3d	NSLRWCD C37	BASE	104.52	10.37	18.50	0	2.68	0.00	10.13	0.00
10yr3d	NSLRWCD C37	BASE	104.77	10.37	18.50	0	2.67	0.00	10.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.02	10.37	18.50	0	2.67	0.00	10.24	0.00
10yr3d	NSLRWCD C37	BASE	105.27	10.36	18.50	0	2.66	0.00	10.30	0.00
10yr3d	NSLRWCD C37	BASE	105.52	10.36	18.50	0	2.65	0.00	10.35	0.00
10yr3d	NSLRWCD C37	BASE	105.77	10.36	18.50	0	2.64	0.00	10.41	0.00
10yr3d	NSLRWCD C37	BASE	106.02	10.36	18.50	0	2.64	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	106.27	10.35	18.50	0	2.63	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	106.52	10.35	18.50	0	2.62	0.00	10.57	0.00
10yr3d	NSLRWCD C37	BASE	106.77	10.35	18.50	0	2.61	0.00	10.63	0.00
10yr3d	NSLRWCD C37	BASE	107.02	10.34	18.50	0	2.61	0.00	10.68	0.00
10yr3d	NSLRWCD C37	BASE	107.27	10.34	18.50	0	2.60	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	107.52	10.34	18.50	0	2.59	0.00	10.79	0.00
10yr3d	NSLRWCD C37	BASE	107.77	10.34	18.50	0	2.58	0.00	10.84	0.00
10yr3d	NSLRWCD C37	BASE	108.02	10.33	18.50	0	2.57	0.00	10.89	0.00
10yr3d	NSLRWCD C37	BASE	108.27	10.33	18.50	0	2.57	0.00	10.95	0.00
10yr3d	NSLRWCD C37	BASE	108.52	10.33	18.50	0	2.56	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	108.77	10.33	18.50	0	2.55	0.00	11.05	0.00
10yr3d	NSLRWCD C37	BASE	109.02	10.32	18.50	0	2.54	0.00	11.11	0.00
10yr3d	NSLRWCD C37	BASE	109.27	10.32	18.50	0	2.54	0.00	11.16	0.00
10yr3d	NSLRWCD C37	BASE	109.52	10.32	18.50	0	2.53	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	109.77	10.32	18.50	0	2.52	0.00	11.26	0.00
10yr3d	NSLRWCD C37	BASE	110.02	10.31	18.50	0	2.51	0.00	11.31	0.00
10yr3d	NSLRWCD C37	BASE	110.27	10.31	18.50	0	2.50	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	110.52	10.31	18.50	0	2.50	0.00	11.42	0.00
10yr3d	NSLRWCD C37	BASE	110.77	10.31	18.50	0	2.49	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	111.02	10.30	18.50	0	2.48	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	111.27	10.30	18.50	0	2.47	0.00	11.57	0.00
10yr3d	NSLRWCD C37	BASE	111.52	10.30	18.50	0	2.46	0.00	11.62	0.00
10yr3d	NSLRWCD C37	BASE	111.77	10.30	18.50	0	2.45	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	112.02	10.29	18.50	0	2.45	0.00	11.72	0.00
10yr3d	NSLRWCD C37	BASE	112.27	10.29	18.50	0	2.44	0.00	11.77	0.00
10yr3d	NSLRWCD C37	BASE	112.52	10.29	18.50	0	2.43	0.00	11.82	0.00
10yr3d	NSLRWCD C37	BASE	112.77	10.29	18.50	0	2.42	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	113.02	10.28	18.50	0	2.41	0.00	11.92	0.00
10yr3d	NSLRWCD C37	BASE	113.27	10.28	18.50	0	2.41	0.00	11.97	0.00
10yr3d	NSLRWCD C37	BASE	113.52	10.28	18.50	0	2.40	0.00	12.02	0.00
10yr3d	NSLRWCD C37	BASE	113.77	10.28	18.50	0	2.39	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	114.02	10.27	18.50	0	2.38	0.00	12.12	0.00
10yr3d	NSLRWCD C37	BASE	114.27	10.27	18.50	0	2.37	0.00	12.17	0.00
10yr3d	NSLRWCD C37	BASE	114.52	10.27	18.50	0	2.36	0.00	12.22	0.00
10yr3d	NSLRWCD C37	BASE	114.77	10.27	18.50	0	2.35	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	115.02	10.26	18.50	0	2.35	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	115.27	10.26	18.50	0	2.34	0.00	12.37	0.00
10yr3d	NSLRWCD C37	BASE	115.52	10.26	18.50	0	2.33	0.00	12.41	0.00
10yr3d	NSLRWCD C37	BASE	115.77	10.26	18.50	0	2.32	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	116.02	10.25	18.50	0	2.31	0.00	12.51	0.00
10yr3d	NSLRWCD C37	BASE	116.27	10.25	18.50	0	2.30	0.00	12.56	0.00
10yr3d	NSLRWCD C37	BASE	116.52	10.25	18.50	0	2.29	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	116.77	10.25	18.50	0	2.28	0.00	12.65	0.00
10yr3d	NSLRWCD C37	BASE	117.02	10.24	18.50	0	2.28	0.00	12.70	0.00
10yr3d	NSLRWCD C37	BASE	117.27	10.24	18.50	0	2.27	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	117.52	10.24	18.50	0	2.26	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	117.77	10.24	18.50	0	2.25	0.00	12.84	0.00
10yr3d	NSLRWCD C37	BASE	118.02	10.23	18.50	0	2.24	0.00	12.89	0.00
10yr3d	NSLRWCD C37	BASE	118.27	10.23	18.50	0	2.23	0.00	12.93	0.00
10yr3d	NSLRWCD C37	BASE	118.52	10.23	18.50	0	2.22	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	118.77	10.23	18.50	0	2.21	0.00	13.02	0.00
10yr3d	NSLRWCD C37	BASE	119.02	10.22	18.50	0	2.20	0.00	13.07	0.00
10yr3d	NSLRWCD C37	BASE	119.27	10.22	18.50	0	2.19	0.00	13.12	0.00
10yr3d	NSLRWCD C37	BASE	119.52	10.22	18.50	0	2.19	0.00	13.16	0.00
10yr3d	NSLRWCD C37	BASE	119.77	10.22	18.50	0	2.18	0.00	13.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.02	10.21	18.50	0	2.17	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	120.27	10.21	18.50	0	2.16	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	120.52	10.21	18.50	0	2.15	0.00	13.34	0.00
10yr3d	NSLRWCD C37	BASE	120.77	10.21	18.50	0	2.14	0.00	13.38	0.00
10yr3d	NSLRWCD C37	BASE	121.02	10.20	18.50	0	2.13	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	121.27	10.20	18.50	0	2.12	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	121.52	10.20	18.50	0	2.11	0.00	13.52	0.00
10yr3d	NSLRWCD C37	BASE	121.77	10.20	18.50	0	2.10	0.00	13.56	0.00
10yr3d	NSLRWCD C37	BASE	122.02	10.19	18.50	0	2.09	0.00	13.60	0.00
10yr3d	NSLRWCD C37	BASE	122.27	10.19	18.50	0	2.08	0.00	13.65	0.00
10yr3d	NSLRWCD C37	BASE	122.52	10.19	18.50	0	2.07	0.00	13.69	0.00
10yr3d	NSLRWCD C37	BASE	122.77	10.19	18.50	0	2.06	0.00	13.73	0.00
10yr3d	NSLRWCD C37	BASE	123.02	10.18	18.50	0	2.05	0.00	13.77	0.00
10yr3d	NSLRWCD C37	BASE	123.27	10.18	18.50	0	2.04	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	123.52	10.18	18.50	0	2.03	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	123.77	10.18	18.50	0	2.02	0.00	13.90	0.00
10yr3d	NSLRWCD C37	BASE	124.02	10.17	18.50	0	2.01	0.00	13.94	0.00
10yr3d	NSLRWCD C37	BASE	124.27	10.17	18.50	0	2.00	0.00	13.98	0.00
10yr3d	NSLRWCD C37	BASE	124.52	10.17	18.50	0	1.99	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	124.77	10.17	18.50	0	1.98	0.00	14.07	0.00
10yr3d	NSLRWCD C37	BASE	125.02	10.16	18.50	0	1.97	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	125.27	10.16	18.50	0	1.96	0.00	14.15	0.00
10yr3d	NSLRWCD C37	BASE	125.52	10.16	18.50	0	1.95	0.00	14.19	0.00
10yr3d	NSLRWCD C37	BASE	125.77	10.15	18.50	0	1.94	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	126.02	10.15	18.50	0	1.93	0.00	14.27	0.00
10yr3d	NSLRWCD C37	BASE	126.27	10.15	18.50	0	1.92	0.00	14.31	0.00
10yr3d	NSLRWCD C37	BASE	126.52	10.15	18.50	0	1.91	0.00	14.35	0.00
10yr3d	NSLRWCD C37	BASE	126.77	10.14	18.50	0	1.90	0.00	14.39	0.00
10yr3d	NSLRWCD C37	BASE	127.02	10.14	18.50	0	1.89	0.00	14.43	0.00
10yr3d	NSLRWCD C37	BASE	127.27	10.14	18.50	0	1.88	0.00	14.47	0.00
10yr3d	NSLRWCD C37	BASE	127.52	10.14	18.50	0	1.87	0.00	14.50	0.00
10yr3d	NSLRWCD C37	BASE	127.77	10.13	18.50	0	1.86	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	128.02	10.13	18.50	0	1.85	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	128.27	10.13	18.50	0	1.84	0.00	14.62	0.00
10yr3d	NSLRWCD C37	BASE	128.52	10.13	18.50	0	1.83	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	128.77	10.12	18.50	0	1.81	0.00	14.69	0.00
10yr3d	NSLRWCD C37	BASE	129.02	10.12	18.50	0	1.80	0.00	14.73	0.00
10yr3d	NSLRWCD C37	BASE	129.27	10.12	18.50	0	1.79	0.00	14.77	0.00
10yr3d	NSLRWCD C37	BASE	129.52	10.12	18.50	0	1.78	0.00	14.81	0.00
10yr3d	NSLRWCD C37	BASE	129.77	10.11	18.50	0	1.77	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	130.02	10.11	18.50	0	1.76	0.00	14.88	0.00
10yr3d	NSLRWCD C37	BASE	130.27	10.11	18.50	0	1.75	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	130.52	10.11	18.50	0	1.74	0.00	14.95	0.00
10yr3d	NSLRWCD C37	BASE	130.77	10.10	18.50	0	1.73	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	131.02	10.10	18.50	0	1.72	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	131.27	10.10	18.50	0	1.71	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	131.52	10.10	18.50	0	1.69	0.00	15.09	0.00
10yr3d	NSLRWCD C37	BASE	131.77	10.09	18.50	0	1.68	0.00	15.13	0.00
10yr3d	NSLRWCD C37	BASE	132.02	10.09	18.50	0	1.67	0.00	15.16	0.00
10yr3d	NSLRWCD C37	BASE	132.27	10.09	18.50	0	1.66	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	132.52	10.09	18.50	0	1.65	0.00	15.23	0.00
10yr3d	NSLRWCD C37	BASE	132.77	10.08	18.50	0	1.64	0.00	15.27	0.00
10yr3d	NSLRWCD C37	BASE	133.02	10.08	18.50	0	1.63	0.00	15.30	0.00
10yr3d	NSLRWCD C37	BASE	133.27	10.08	18.50	0	1.62	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	133.52	10.08	18.50	0	1.61	0.00	15.37	0.00
10yr3d	NSLRWCD C37	BASE	133.77	10.07	18.50	0	1.59	0.00	15.40	0.00
10yr3d	NSLRWCD C37	BASE	134.02	10.07	18.50	0	1.58	0.00	15.43	0.00
10yr3d	NSLRWCD C37	BASE	134.27	10.07	18.50	0	1.57	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	134.52	10.07	18.50	0	1.56	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	134.77	10.06	18.50	0	1.55	0.00	15.53	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.02	10.06	18.50	0	1.53	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	135.27	10.06	18.50	0	1.52	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	135.52	10.06	18.50	0	1.50	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	135.77	10.05	18.50	0	1.49	0.00	15.65	0.00
10yr3d	NSLRWCD C37	BASE	136.02	10.05	18.50	0	1.47	0.00	15.68	0.00
10yr3d	NSLRWCD C37	BASE	136.27	10.05	18.50	0	1.46	0.00	15.72	0.00
10yr3d	NSLRWCD C37	BASE	136.52	10.05	18.50	0	1.44	0.00	15.75	0.00
10yr3d	NSLRWCD C37	BASE	136.77	10.04	18.50	0	1.43	0.00	15.77	0.00
10yr3d	NSLRWCD C37	BASE	137.02	10.04	18.50	0	1.41	0.00	15.80	0.00
10yr3d	NSLRWCD C37	BASE	137.27	10.04	18.50	0	1.40	0.00	15.83	0.00
10yr3d	NSLRWCD C37	BASE	137.52	10.04	18.50	0	1.38	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	137.77	10.03	18.50	0	1.37	0.00	15.89	0.00
10yr3d	NSLRWCD C37	BASE	138.02	10.03	18.50	0	1.36	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	138.27	10.03	18.50	0	1.34	0.00	15.95	0.00
10yr3d	NSLRWCD C37	BASE	138.52	10.03	18.50	0	1.33	0.00	15.97	0.00
10yr3d	NSLRWCD C37	BASE	138.77	10.02	18.50	0	1.31	0.00	16.00	0.00
10yr3d	NSLRWCD C37	BASE	139.02	10.02	18.50	0	1.30	0.00	16.03	0.00
10yr3d	NSLRWCD C37	BASE	139.27	10.02	18.50	0	1.28	0.00	16.05	0.00
10yr3d	NSLRWCD C37	BASE	139.52	10.02	18.50	0	1.27	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	139.77	10.01	18.50	0	1.25	0.00	16.11	0.00
10yr3d	NSLRWCD C37	BASE	140.02	10.01	18.50	0	1.24	0.00	16.13	0.00
10yr3d	NSLRWCD C37	BASE	140.27	10.01	18.50	0	1.22	0.00	16.16	0.00
10yr3d	NSLRWCD C37	BASE	140.52	10.01	18.50	0	1.21	0.00	16.18	0.00
10yr3d	NSLRWCD C37	BASE	140.77	10.00	18.50	0	1.20	0.00	16.21	0.00
10yr3d	NSLRWCD C37	BASE	141.02	10.00	18.50	0	1.18	0.00	16.23	0.00
10yr3d	NSLRWCD C37	BASE	141.27	10.00	18.50	0	1.17	0.00	16.26	0.00
10yr3d	NSLRWCD C37	BASE	141.52	10.00	18.50	0	1.16	0.00	16.28	0.00
10yr3d	NSLRWCD C37	BASE	141.77	9.99	18.50	0	1.14	0.00	16.30	0.00
10yr3d	NSLRWCD C37	BASE	142.02	9.99	18.50	0	1.13	0.00	16.33	0.00
10yr3d	NSLRWCD C37	BASE	142.27	9.99	18.50	0	1.12	0.00	16.35	0.00
10yr3d	NSLRWCD C37	BASE	142.52	9.99	18.50	0	1.11	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	142.77	9.98	18.50	0	1.09	0.00	16.40	0.00
10yr3d	NSLRWCD C37	BASE	143.02	9.98	18.50	0	1.08	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	143.27	9.98	18.50	0	1.07	0.00	16.44	0.00
10yr3d	NSLRWCD C37	BASE	143.52	9.97	18.50	0	1.06	0.00	16.46	0.00
10yr3d	NSLRWCD C37	BASE	143.77	9.97	18.50	0	1.05	0.00	16.49	0.00
10yr3d	NSLRWCD C37	BASE	144.02	9.97	18.50	0	1.04	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	144.27	9.97	18.50	0	1.03	0.00	16.53	0.00
10yr3d	NSLRWCD C37	BASE	144.52	9.96	18.50	0	1.02	0.00	16.55	0.00
10yr3d	NSLRWCD C37	BASE	144.77	9.96	18.50	0	1.01	0.00	16.57	0.00
10yr3d	NSLRWCD C37	BASE	145.02	9.96	18.50	0	1.00	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	145.27	9.96	18.50	0	0.99	0.00	16.61	0.00
10yr3d	NSLRWCD C37	BASE	145.52	9.95	18.50	0	0.98	0.00	16.63	0.00
10yr3d	NSLRWCD C37	BASE	145.77	9.95	18.50	0	0.97	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	146.02	9.95	18.50	0	0.96	0.00	16.67	0.00
10yr3d	NSLRWCD C37	BASE	146.27	9.95	18.50	0	0.95	0.00	16.69	0.00
10yr3d	NSLRWCD C37	BASE	146.52	9.94	18.50	0	0.94	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	146.77	9.94	18.50	0	0.93	0.00	16.73	0.00
10yr3d	NSLRWCD C37	BASE	147.02	9.94	18.50	0	0.92	0.00	16.75	0.00
10yr3d	NSLRWCD C37	BASE	147.27	9.94	18.50	0	0.91	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	147.52	9.93	18.50	0	0.90	0.00	16.79	0.00
10yr3d	NSLRWCD C37	BASE	147.77	9.93	18.50	0	0.89	0.00	16.81	0.00
10yr3d	NSLRWCD C37	BASE	148.02	9.93	18.50	0	0.89	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	148.27	9.93	18.50	0	0.88	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	148.52	9.92	18.50	0	0.87	0.00	16.86	0.00
10yr3d	NSLRWCD C37	BASE	148.77	9.92	18.50	0	0.86	0.00	16.88	0.00
10yr3d	NSLRWCD C37	BASE	149.02	9.92	18.50	0	0.85	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	149.27	9.92	18.50	0	0.85	0.00	16.91	0.00
10yr3d	NSLRWCD C37	BASE	149.52	9.91	18.50	0	0.84	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	149.77	9.91	18.50	0	0.83	0.00	16.95	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.02	9.91	18.50	0	0.82	0.00	16.97	0.00
10yr3d	NSLRWCD C37	BASE	150.27	9.91	18.50	0	0.82	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	150.52	9.90	18.50	0	0.81	0.00	17.00	0.00
10yr3d	NSLRWCD C37	BASE	150.77	9.90	18.50	0	0.80	0.00	17.02	0.00
10yr3d	NSLRWCD C37	BASE	151.02	9.90	18.50	0	0.79	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	151.27	9.90	18.50	0	0.79	0.00	17.05	0.00
10yr3d	NSLRWCD C37	BASE	151.52	9.89	18.50	0	0.78	0.00	17.06	0.00
10yr3d	NSLRWCD C37	BASE	151.77	9.89	18.50	0	0.77	0.00	17.08	0.00
10yr3d	NSLRWCD C37	BASE	152.02	9.89	18.50	0	0.77	0.00	17.10	0.00
10yr3d	NSLRWCD C37	BASE	152.27	9.89	18.50	0	0.76	0.00	17.11	0.00
10yr3d	NSLRWCD C37	BASE	152.52	9.88	18.50	0	0.75	0.00	17.13	0.00
10yr3d	NSLRWCD C37	BASE	152.77	9.88	18.50	0	0.75	0.00	17.14	0.00
10yr3d	NSLRWCD C37	BASE	153.02	9.88	18.50	0	0.74	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	153.27	9.88	18.50	0	0.74	0.00	17.17	0.00
10yr3d	NSLRWCD C37	BASE	153.52	9.87	18.50	0	0.73	0.00	17.19	0.00
10yr3d	NSLRWCD C37	BASE	153.77	9.87	18.50	0	0.72	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	154.02	9.87	18.50	0	0.72	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	154.27	9.87	18.50	0	0.71	0.00	17.23	0.00
10yr3d	NSLRWCD C37	BASE	154.52	9.86	18.50	0	0.71	0.00	17.25	0.00
10yr3d	NSLRWCD C37	BASE	154.77	9.86	18.50	0	0.70	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	155.02	9.86	18.50	0	0.70	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	155.27	9.86	18.50	0	0.69	0.00	17.29	0.00
10yr3d	NSLRWCD C37	BASE	155.52	9.85	18.50	0	0.69	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	155.77	9.85	18.50	0	0.68	0.00	17.32	0.00
10yr3d	NSLRWCD C37	BASE	156.02	9.85	18.50	0	0.68	0.00	17.33	0.00
10yr3d	NSLRWCD C37	BASE	156.27	9.85	18.50	0	0.67	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	156.52	9.84	18.50	0	0.67	0.00	17.36	0.00
10yr3d	NSLRWCD C37	BASE	156.77	9.84	18.50	0	0.66	0.00	17.38	0.00
10yr3d	NSLRWCD C37	BASE	157.02	9.84	18.50	0	0.66	0.00	17.39	0.00
10yr3d	NSLRWCD C37	BASE	157.27	9.84	18.50	0	0.65	0.00	17.40	0.00
10yr3d	NSLRWCD C37	BASE	157.52	9.83	18.50	0	0.65	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	157.77	9.83	18.50	0	0.64	0.00	17.43	0.00
10yr3d	NSLRWCD C37	BASE	158.02	9.83	18.50	0	0.64	0.00	17.44	0.00
10yr3d	NSLRWCD C37	BASE	158.27	9.83	18.50	0	0.63	0.00	17.46	0.00
10yr3d	NSLRWCD C37	BASE	158.52	9.82	18.50	0	0.63	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	158.77	9.82	18.50	0	0.63	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	159.02	9.82	18.50	0	0.62	0.00	17.50	0.00
10yr3d	NSLRWCD C37	BASE	159.27	9.82	18.50	0	0.62	0.00	17.51	0.00
10yr3d	NSLRWCD C37	BASE	159.52	9.81	18.50	0	0.61	0.00	17.52	0.00
10yr3d	NSLRWCD C37	BASE	159.77	9.81	18.50	0	0.61	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	160.02	9.81	18.50	0	0.61	0.00	17.55	0.00
10yr3d	NSLRWCD C37	BASE	160.27	9.81	18.50	0	0.60	0.00	17.56	0.00
10yr3d	NSLRWCD C37	BASE	160.52	9.80	18.50	0	0.60	0.00	17.57	0.00
10yr3d	NSLRWCD C37	BASE	160.77	9.80	18.50	0	0.59	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	161.02	9.80	18.50	0	0.59	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	161.27	9.79	18.50	0	0.59	0.00	17.61	0.00
10yr3d	NSLRWCD C37	BASE	161.52	9.79	18.50	0	0.58	0.00	17.62	0.00
10yr3d	NSLRWCD C37	BASE	161.77	9.79	18.50	0	0.58	0.00	17.63	0.00
10yr3d	NSLRWCD C37	BASE	162.02	9.79	18.50	0	0.58	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	162.27	9.78	18.50	0	0.57	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	162.52	9.78	18.50	0	0.57	0.00	17.67	0.00
10yr3d	NSLRWCD C37	BASE	162.77	9.78	18.50	0	0.57	0.00	17.68	0.00
10yr3d	NSLRWCD C37	BASE	163.02	9.78	18.50	0	0.56	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	163.27	9.77	18.50	0	0.56	0.00	17.70	0.00
10yr3d	NSLRWCD C37	BASE	163.52	9.77	18.50	0	0.56	0.00	17.71	0.00
10yr3d	NSLRWCD C37	BASE	163.77	9.77	18.50	0	0.56	0.00	17.73	0.00
10yr3d	NSLRWCD C37	BASE	164.02	9.77	18.50	0	0.55	0.00	17.74	0.00
10yr3d	NSLRWCD C37	BASE	164.27	9.76	18.50	0	0.55	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	164.52	9.76	18.50	0	0.55	0.00	17.76	0.00
10yr3d	NSLRWCD C37	BASE	164.77	9.76	18.50	0	0.54	0.00	17.77	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.02	9.76	18.50	0	0.54	0.00	17.78	0.00
10yr3d	NSLRWCD C37	BASE	165.27	9.75	18.50	0	0.54	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	165.52	9.75	18.50	0	0.54	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	165.77	9.75	18.50	0	0.53	0.00	17.82	0.00
10yr3d	NSLRWCD C37	BASE	166.02	9.75	18.50	0	0.53	0.00	17.83	0.00
10yr3d	NSLRWCD C37	BASE	166.27	9.74	18.50	0	0.53	0.00	17.84	0.00
10yr3d	NSLRWCD C37	BASE	166.52	9.74	18.50	0	0.53	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	166.77	9.74	18.50	0	0.53	0.00	17.86	0.00
10yr3d	NSLRWCD C37	BASE	167.02	9.74	18.50	0	0.52	0.00	17.87	0.00
10yr3d	NSLRWCD C37	BASE	167.27	9.73	18.50	0	0.52	0.00	17.88	0.00
10yr3d	NSLRWCD C37	BASE	167.52	9.73	18.50	0	0.52	0.00	17.89	0.00
10yr3d	NSLRWCD C37	BASE	167.77	9.73	18.50	0	0.52	0.00	17.90	0.00
10yr3d	NSLRWCD C37	BASE	168.02	9.73	18.50	0	0.52	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	168.27	9.72	18.50	0	0.51	0.00	17.92	0.00
10yr3d	NSLRWCD C37	BASE	168.52	9.72	18.50	0	0.51	0.00	17.93	0.00
10yr3d	NSLRWCD C37	BASE	168.77	9.72	18.50	0	0.51	0.00	17.95	0.00
10yr3d	NSLRWCD C37	BASE	169.02	9.72	18.50	0	0.51	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	169.27	9.71	18.50	0	0.51	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	169.52	9.71	18.50	0	0.51	0.00	17.98	0.00
10yr3d	NSLRWCD C37	BASE	169.77	9.71	18.50	0	0.51	0.00	17.99	0.00
10yr3d	NSLRWCD C37	BASE	170.02	9.71	18.50	0	0.50	0.00	18.00	0.00
10yr3d	NSLRWCD C37	BASE	170.27	9.70	18.50	0	0.50	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	170.52	9.70	18.50	0	0.50	0.00	18.02	0.00
10yr3d	NSLRWCD C37	BASE	170.77	9.70	18.50	0	0.50	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	171.02	9.70	18.50	0	0.50	0.00	18.04	0.00
10yr3d	NSLRWCD C37	BASE	171.27	9.69	18.50	0	0.50	0.00	18.05	0.00
10yr3d	NSLRWCD C37	BASE	171.52	9.69	18.50	0	0.50	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	171.77	9.69	18.50	0	0.50	0.00	18.07	0.00
10yr3d	NSLRWCD C37	BASE	172.02	9.69	18.50	0	0.50	0.00	18.08	0.00
10yr3d	NSLRWCD C37	BASE	172.27	9.68	18.50	0	0.50	0.00	18.09	0.00
10yr3d	NSLRWCD C37	BASE	172.52	9.68	18.50	0	0.50	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	172.77	9.68	18.50	0	0.50	0.00	18.11	0.00
10yr3d	NSLRWCD C37	BASE	173.02	9.68	18.50	0	0.50	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	173.27	9.67	18.50	0	0.50	0.00	18.13	0.00
10yr3d	NSLRWCD C37	BASE	173.52	9.67	18.50	0	0.50	0.00	18.14	0.00
10yr3d	NSLRWCD C37	BASE	173.77	9.67	18.50	0	0.50	0.00	18.15	0.00
10yr3d	NSLRWCD C37	BASE	174.02	9.67	18.50	0	0.50	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	174.27	9.66	18.50	0	0.50	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	174.52	9.66	18.50	0	0.50	0.00	18.18	0.00
10yr3d	NSLRWCD C37	BASE	174.77	9.66	18.50	0	0.50	0.00	18.19	0.00
10yr3d	NSLRWCD C37	BASE	175.02	9.66	18.50	0	0.49	0.00	18.20	0.00
10yr3d	NSLRWCD C37	BASE	175.27	9.65	18.50	0	0.49	0.00	18.21	0.00
10yr3d	NSLRWCD C37	BASE	175.52	9.65	18.50	0	0.49	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	175.77	9.65	18.50	0	0.49	0.00	18.23	0.00
10yr3d	NSLRWCD C37	BASE	176.02	9.65	18.50	0	0.49	0.00	18.24	0.00
10yr3d	NSLRWCD C37	BASE	176.27	9.64	18.50	0	0.49	0.00	18.25	0.00
10yr3d	NSLRWCD C37	BASE	176.52	9.64	18.50	0	0.49	0.00	18.26	0.00
10yr3d	NSLRWCD C37	BASE	176.77	9.64	18.50	0	0.49	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	177.02	9.64	18.50	0	0.49	0.00	18.29	0.00
10yr3d	NSLRWCD C37	BASE	177.27	9.63	18.50	0	0.49	0.00	18.30	0.00
10yr3d	NSLRWCD C37	BASE	177.52	9.63	18.50	0	0.49	0.00	18.31	0.00
10yr3d	NSLRWCD C37	BASE	177.77	9.63	18.50	0	0.49	0.00	18.32	0.00
10yr3d	NSLRWCD C37	BASE	178.02	9.63	18.50	0	0.49	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	178.27	9.62	18.50	0	0.49	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	178.52	9.62	18.50	0	0.49	0.00	18.35	0.00
10yr3d	NSLRWCD C37	BASE	178.77	9.62	18.50	0	0.49	0.00	18.36	0.00
10yr3d	NSLRWCD C37	BASE	179.02	9.61	18.50	0	0.49	0.00	18.37	0.00
10yr3d	NSLRWCD C37	BASE	179.27	9.61	18.50	0	0.49	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	179.52	9.61	18.50	0	0.49	0.00	18.39	0.00
10yr3d	NSLRWCD C37	BASE	179.77	9.61	18.50	0	0.49	0.00	18.40	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.02	9.60	18.50	0	0.49	0.00	18.41	0.00
10yr3d	NSLRWCD C37	BASE	180.27	9.60	18.50	0	0.49	0.00	18.42	0.00
10yr3d	NSLRWCD C37	BASE	180.52	9.60	18.50	0	0.48	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	180.77	9.60	18.50	0	0.48	0.00	18.44	0.00
10yr3d	NSLRWCD C37	BASE	181.02	9.59	18.50	0	0.48	0.00	18.45	0.00
10yr3d	NSLRWCD C37	BASE	181.27	9.59	18.50	0	0.48	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	181.52	9.59	18.50	0	0.48	0.00	18.47	0.00
10yr3d	NSLRWCD C37	BASE	181.77	9.59	18.50	0	0.48	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	182.02	9.58	18.50	0	0.48	0.00	18.49	0.00
10yr3d	NSLRWCD C37	BASE	182.27	9.58	18.50	0	0.48	0.00	18.50	0.00
10yr3d	NSLRWCD C37	BASE	182.52	9.58	18.50	0	0.48	0.00	18.51	0.00
10yr3d	NSLRWCD C37	BASE	182.77	9.58	18.50	0	0.48	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	183.02	9.57	18.50	0	0.48	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	183.27	9.57	18.50	0	0.48	0.00	18.54	0.00
10yr3d	NSLRWCD C37	BASE	183.52	9.57	18.50	0	0.48	0.00	18.55	0.00
10yr3d	NSLRWCD C37	BASE	183.77	9.57	18.50	0	0.48	0.00	18.56	0.00
10yr3d	NSLRWCD C37	BASE	184.02	9.56	18.50	0	0.48	0.00	18.57	0.00
10yr3d	NSLRWCD C37	BASE	184.27	9.56	18.50	0	0.48	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	184.52	9.56	18.50	0	0.48	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	184.77	9.56	18.50	0	0.48	0.00	18.60	0.00
10yr3d	NSLRWCD C37	BASE	185.02	9.55	18.50	0	0.48	0.00	18.61	0.00
10yr3d	NSLRWCD C37	BASE	185.27	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.52	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.77	9.55	18.50	0	0.48	0.00	18.63	0.00
10yr3d	NSLRWCD C37	BASE	186.02	9.54	18.50	0	0.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	186.27	9.54	18.50	0	0.47	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	186.52	9.54	18.50	0	0.47	0.00	18.66	0.00
10yr3d	NSLRWCD C37	BASE	186.77	9.54	18.50	0	0.47	0.00	18.67	0.00
10yr3d	NSLRWCD C37	BASE	187.02	9.53	18.50	0	0.47	0.00	18.68	0.00
10yr3d	NSLRWCD C37	BASE	187.27	9.53	18.50	0	0.47	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	187.52	9.53	18.50	0	0.47	0.00	18.70	0.00
10yr3d	NSLRWCD C37	BASE	187.77	9.53	18.50	0	0.47	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	188.02	9.52	18.50	0	0.47	0.00	18.72	0.00
10yr3d	NSLRWCD C37	BASE	188.27	9.52	18.50	0	0.47	0.00	18.73	0.00
10yr3d	NSLRWCD C37	BASE	188.52	9.52	18.50	0	0.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	188.77	9.52	18.50	0	0.47	0.00	18.75	0.00
10yr3d	NSLRWCD C37	BASE	189.02	9.51	18.50	0	0.47	0.00	18.76	0.00
10yr3d	NSLRWCD C37	BASE	189.27	9.51	18.50	0	0.47	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	189.52	9.51	18.50	0	0.47	0.00	18.78	0.00
10yr3d	NSLRWCD C37	BASE	189.77	9.51	18.50	0	0.47	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	190.02	9.50	18.50	0	0.47	0.00	18.80	0.00
10yr3d	NSLRWCD C37	BASE	190.27	9.50	18.50	0	0.47	0.00	18.81	0.00
10yr3d	NSLRWCD C37	BASE	190.52	9.50	18.50	0	0.47	0.00	18.82	0.00
10yr3d	NSLRWCD C37	BASE	190.77	9.50	18.50	0	0.47	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	191.02	9.49	18.50	0	0.47	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	191.27	9.49	18.50	0	0.47	0.00	18.85	0.00
10yr3d	NSLRWCD C37	BASE	191.52	9.49	18.50	0	0.47	0.00	18.86	0.00
10yr3d	NSLRWCD C37	BASE	191.77	9.49	18.50	0	0.46	0.00	18.87	0.00
10yr3d	NSLRWCD C37	BASE	192.02	9.48	18.50	0	0.46	0.00	18.88	0.00
10yr3d	NSLRWCD C37	BASE	192.27	9.48	18.50	0	0.46	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	192.52	9.48	18.50	0	0.46	0.00	18.90	0.00
10yr3d	NSLRWCD C37	BASE	192.77	9.48	18.50	0	0.46	0.00	18.91	0.00
10yr3d	NSLRWCD C37	BASE	193.02	9.47	18.50	0	0.46	0.00	18.92	0.00
10yr3d	NSLRWCD C37	BASE	193.27	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.52	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.77	9.47	18.50	0	0.46	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	194.02	9.46	18.50	0	0.46	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	194.27	9.46	18.50	0	0.46	0.00	18.96	0.00
10yr3d	NSLRWCD C37	BASE	194.52	9.46	18.50	0	0.46	0.00	18.97	0.00
10yr3d	NSLRWCD C37	BASE	194.77	9.46	18.50	0	0.46	0.00	18.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.02	9.45	18.50	0	0.46	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	195.27	9.45	18.50	0	0.46	0.00	19.00	0.00
10yr3d	NSLRWCD C37	BASE	195.52	9.45	18.50	0	0.46	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	195.77	9.45	18.50	0	0.46	0.00	19.02	0.00
10yr3d	NSLRWCD C37	BASE	196.02	9.44	18.50	0	0.46	0.00	19.03	0.00
10yr3d	NSLRWCD C37	BASE	196.27	9.44	18.50	0	0.46	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	196.52	9.44	18.50	0	0.46	0.00	19.05	0.00
10yr3d	NSLRWCD C37	BASE	196.77	9.44	18.50	0	0.46	0.00	19.06	0.00
10yr3d	NSLRWCD C37	BASE	197.02	9.43	18.50	0	0.46	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	197.27	9.43	18.50	0	0.45	0.00	19.08	0.00
10yr3d	NSLRWCD C37	BASE	197.52	9.43	18.50	0	0.45	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	197.77	9.42	18.50	0	0.45	0.00	19.10	0.00
10yr3d	NSLRWCD C37	BASE	198.02	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.27	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.52	9.42	18.50	0	0.45	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	198.77	9.41	18.50	0	0.45	0.00	19.13	0.00
10yr3d	NSLRWCD C37	BASE	199.02	9.41	18.50	0	0.45	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	199.27	9.41	18.50	0	0.45	0.00	19.15	0.00
10yr3d	NSLRWCD C37	BASE	199.52	9.41	18.50	0	0.45	0.00	19.16	0.00
10yr3d	NSLRWCD C37	BASE	199.77	9.40	18.50	0	0.45	0.00	19.17	0.00
10yr3d	NSLRWCD C37	BASE	200.02	9.40	18.50	0	0.45	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	200.27	9.40	18.50	0	0.45	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	200.52	9.40	18.50	0	0.45	0.00	19.20	0.00
10yr3d	NSLRWCD C37	BASE	200.77	9.39	18.50	0	0.45	0.00	19.21	0.00
10yr3d	NSLRWCD C37	BASE	201.02	9.39	18.50	0	0.45	0.00	19.22	0.00
10yr3d	NSLRWCD C37	BASE	201.27	9.39	18.50	0	0.45	0.00	19.23	0.00
10yr3d	NSLRWCD C37	BASE	201.52	9.39	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	201.77	9.38	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	202.02	9.38	18.50	0	0.45	0.00	19.25	0.00
10yr3d	NSLRWCD C37	BASE	202.27	9.38	18.50	0	0.45	0.00	19.26	0.00
10yr3d	NSLRWCD C37	BASE	202.52	9.38	18.50	0	0.45	0.00	19.27	0.00
10yr3d	NSLRWCD C37	BASE	202.77	9.37	18.50	0	0.44	0.00	19.28	0.00
10yr3d	NSLRWCD C37	BASE	203.02	9.37	18.50	0	0.44	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	203.27	9.37	18.50	0	0.44	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	203.52	9.37	18.50	0	0.44	0.00	19.31	0.00
10yr3d	NSLRWCD C37	BASE	203.77	9.36	18.50	0	0.44	0.00	19.32	0.00
10yr3d	NSLRWCD C37	BASE	204.02	9.36	18.50	0	0.44	0.00	19.33	0.00
10yr3d	NSLRWCD C37	BASE	204.27	9.36	18.50	0	0.44	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	204.52	9.36	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	204.77	9.35	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	205.02	9.35	18.50	0	0.44	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	205.27	9.35	18.50	0	0.44	0.00	19.37	0.00
10yr3d	NSLRWCD C37	BASE	205.52	9.35	18.50	0	0.44	0.00	19.38	0.00
10yr3d	NSLRWCD C37	BASE	205.77	9.34	18.50	0	0.44	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	206.02	9.34	18.50	0	0.44	0.00	19.40	0.00
10yr3d	NSLRWCD C37	BASE	206.27	9.34	18.50	0	0.44	0.00	19.41	0.00
10yr3d	NSLRWCD C37	BASE	206.52	9.34	18.50	0	0.44	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	206.77	9.33	18.50	0	0.44	0.00	19.43	0.00
10yr3d	NSLRWCD C37	BASE	207.02	9.33	18.50	0	0.44	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	207.27	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.52	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.77	9.32	18.50	0	0.44	0.00	19.46	0.00
10yr3d	NSLRWCD C37	BASE	208.02	9.32	18.50	0	0.44	0.00	19.47	0.00
10yr3d	NSLRWCD C37	BASE	208.27	9.32	18.50	0	0.44	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	208.52	9.32	18.50	0	0.43	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	208.77	9.31	18.50	0	0.43	0.00	19.50	0.00
10yr3d	NSLRWCD C37	BASE	209.02	9.31	18.50	0	0.43	0.00	19.51	0.00
10yr3d	NSLRWCD C37	BASE	209.27	9.31	18.50	0	0.43	0.00	19.52	0.00
10yr3d	NSLRWCD C37	BASE	209.52	9.31	18.50	0	0.43	0.00	19.53	0.00
10yr3d	NSLRWCD C37	BASE	209.77	9.30	18.50	0	0.43	0.00	19.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.02	9.30	18.50	0	0.43	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	210.27	9.30	18.50	0	0.43	0.00	19.55	0.00
10yr3d	NSLRWCD C37	BASE	210.52	9.30	18.50	0	0.43	0.00	19.56	0.00
10yr3d	NSLRWCD C37	BASE	210.77	9.29	18.50	0	0.43	0.00	19.57	0.00
10yr3d	NSLRWCD C37	BASE	211.02	9.29	18.50	0	0.43	0.00	19.58	0.00
10yr3d	NSLRWCD C37	BASE	211.27	9.29	18.50	0	0.43	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	211.52	9.29	18.50	0	0.43	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	211.77	9.28	18.50	0	0.43	0.00	19.61	0.00
10yr3d	NSLRWCD C37	BASE	212.02	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.27	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.52	9.28	18.50	0	0.43	0.00	19.63	0.00
10yr3d	NSLRWCD C37	BASE	212.77	9.27	18.50	0	0.43	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	213.02	9.27	18.50	0	0.43	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	213.27	9.27	18.50	0	0.43	0.00	19.66	0.00
10yr3d	NSLRWCD C37	BASE	213.52	9.27	18.50	0	0.43	0.00	19.67	0.00
10yr3d	NSLRWCD C37	BASE	213.77	9.26	18.50	0	0.43	0.00	19.68	0.00
10yr3d	NSLRWCD C37	BASE	214.02	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.27	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.52	9.26	18.50	0	0.42	0.00	19.70	0.00
10yr3d	NSLRWCD C37	BASE	214.77	9.25	18.50	0	0.42	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	215.02	9.25	18.50	0	0.42	0.00	19.72	0.00
10yr3d	NSLRWCD C37	BASE	215.27	9.25	18.50	0	0.42	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	215.52	9.24	18.50	0	0.42	0.00	19.74	0.00
10yr3d	NSLRWCD C37	BASE	215.77	9.24	18.50	0	0.42	0.00	19.75	0.00
10yr3d	NSLRWCD C37	BASE	216.02	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.27	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.52	9.23	18.50	0	0.42	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	216.77	9.23	18.50	0	0.42	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	217.02	9.23	18.50	0	0.42	0.00	19.79	0.00
10yr3d	NSLRWCD C37	BASE	217.27	9.23	18.50	0	0.42	0.00	19.80	0.00
10yr3d	NSLRWCD C37	BASE	217.52	9.22	18.50	0	0.42	0.00	19.81	0.00
10yr3d	NSLRWCD C37	BASE	217.77	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.02	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.27	9.22	18.50	0	0.42	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	218.52	9.21	18.50	0	0.42	0.00	19.84	0.00
10yr3d	NSLRWCD C37	BASE	218.77	9.21	18.50	0	0.42	0.00	19.85	0.00
10yr3d	NSLRWCD C37	BASE	219.02	9.21	18.50	0	0.42	0.00	19.86	0.00
10yr3d	NSLRWCD C37	BASE	219.27	9.21	18.50	0	0.42	0.00	19.87	0.00
10yr3d	NSLRWCD C37	BASE	219.52	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	219.77	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	220.02	9.20	18.50	0	0.41	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	220.27	9.20	18.50	0	0.41	0.00	19.90	0.00
10yr3d	NSLRWCD C37	BASE	220.52	9.19	18.50	0	0.41	0.00	19.91	0.00
10yr3d	NSLRWCD C37	BASE	220.77	9.19	18.50	0	0.41	0.00	19.92	0.00
10yr3d	NSLRWCD C37	BASE	221.02	9.19	18.50	0	0.41	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	221.27	9.19	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.52	9.18	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.77	9.18	18.50	0	0.41	0.00	19.95	0.00
10yr3d	NSLRWCD C37	BASE	222.02	9.18	18.50	0	0.41	0.00	19.96	0.00
10yr3d	NSLRWCD C37	BASE	222.27	9.18	18.50	0	0.41	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	222.52	9.17	18.50	0	0.41	0.00	19.98	0.00
10yr3d	NSLRWCD C37	BASE	222.77	9.17	18.50	0	0.41	0.00	19.99	0.00
10yr3d	NSLRWCD C37	BASE	223.02	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.27	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.52	9.16	18.50	0	0.41	0.00	20.01	0.00
10yr3d	NSLRWCD C37	BASE	223.77	9.16	18.50	0	0.41	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	224.02	9.16	18.50	0	0.41	0.00	20.03	0.00
10yr3d	NSLRWCD C37	BASE	224.27	9.16	18.50	0	0.41	0.00	20.04	0.00
10yr3d	NSLRWCD C37	BASE	224.52	9.15	18.50	0	0.41	0.00	20.05	0.00
10yr3d	NSLRWCD C37	BASE	224.77	9.15	18.50	0	0.41	0.00	20.05	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.02	9.15	18.50	0	0.40	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	225.27	9.15	18.50	0	0.40	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	225.52	9.14	18.50	0	0.40	0.00	20.08	0.00
10yr3d	NSLRWCD C37	BASE	225.77	9.14	18.50	0	0.40	0.00	20.09	0.00
10yr3d	NSLRWCD C37	BASE	226.02	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.27	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.52	9.13	18.50	0	0.40	0.00	20.11	0.00
10yr3d	NSLRWCD C37	BASE	226.77	9.13	18.50	0	0.40	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	227.02	9.13	18.50	0	0.40	0.00	20.13	0.00
10yr3d	NSLRWCD C37	BASE	227.27	9.13	18.50	0	0.40	0.00	20.14	0.00
10yr3d	NSLRWCD C37	BASE	227.52	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	227.77	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	228.02	9.12	18.50	0	0.40	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	228.27	9.12	18.50	0	0.40	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	228.52	9.11	18.50	0	0.40	0.00	20.18	0.00
10yr3d	NSLRWCD C37	BASE	228.77	9.11	18.50	0	0.40	0.00	20.19	0.00
10yr3d	NSLRWCD C37	BASE	229.02	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.27	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.52	9.10	18.50	0	0.40	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	229.77	9.10	18.50	0	0.40	0.00	20.22	0.00
10yr3d	NSLRWCD C37	BASE	230.02	9.10	18.50	0	0.40	0.00	20.23	0.00
10yr3d	NSLRWCD C37	BASE	230.27	9.10	18.50	0	0.40	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.52	9.09	18.50	0	0.39	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.77	9.09	18.50	0	0.39	0.00	20.25	0.00
10yr3d	NSLRWCD C37	BASE	231.02	9.09	18.50	0	0.39	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	231.27	9.09	18.50	0	0.39	0.00	20.27	0.00
10yr3d	NSLRWCD C37	BASE	231.52	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	231.77	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	232.02	9.08	18.50	0	0.39	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	232.27	9.08	18.50	0	0.39	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	232.52	9.07	18.50	0	0.39	0.00	20.31	0.00
10yr3d	NSLRWCD C37	BASE	232.77	9.07	18.50	0	0.39	0.00	20.32	0.00
10yr3d	NSLRWCD C37	BASE	233.02	9.07	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.27	9.06	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.52	9.06	18.50	0	0.39	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	233.77	9.06	18.50	0	0.39	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	234.02	9.06	18.50	0	0.39	0.00	20.36	0.00
10yr3d	NSLRWCD C37	BASE	234.27	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.52	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.77	9.05	18.50	0	0.39	0.00	20.38	0.00
10yr3d	NSLRWCD C37	BASE	235.02	9.05	18.50	0	0.39	0.00	20.39	0.00
10yr3d	NSLRWCD C37	BASE	235.27	9.04	18.50	0	0.39	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	235.52	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	235.77	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	236.02	9.04	18.50	0	0.38	0.00	20.42	0.00
10yr3d	NSLRWCD C37	BASE	236.27	9.03	18.50	0	0.38	0.00	20.43	0.00
10yr3d	NSLRWCD C37	BASE	236.52	9.03	18.50	0	0.38	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	236.77	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.02	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.27	9.02	18.50	0	0.38	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	237.52	9.02	18.50	0	0.38	0.00	20.47	0.00
10yr3d	NSLRWCD C37	BASE	237.77	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.02	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.27	9.01	18.50	0	0.38	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	238.52	9.01	18.50	0	0.38	0.00	20.50	0.00
10yr3d	NSLRWCD C37	BASE	238.77	9.01	18.50	0	0.38	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	239.02	9.01	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.27	9.00	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.52	9.00	18.50	0	0.38	0.00	20.53	0.00
10yr3d	NSLRWCD C37	BASE	239.77	9.00	18.50	0	0.38	0.00	20.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.02	9.00	18.50	0	0.38	0.00	20.55	0.00
10yr3d	NSLRWCD C37	BASE	240.27	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.52	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.77	8.99	18.50	0	0.38	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	241.02	8.99	18.50	0	0.38	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	241.27	8.98	18.50	0	0.38	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.52	8.98	18.50	0	0.37	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.77	8.98	18.50	0	0.37	0.00	20.60	0.00
10yr3d	NSLRWCD C37	BASE	242.02	8.98	18.50	0	0.37	0.00	20.61	0.00
10yr3d	NSLRWCD C37	BASE	242.27	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.52	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.77	8.97	18.50	0	0.37	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	243.02	8.97	18.50	0	0.37	0.00	20.64	0.00
10yr3d	NSLRWCD C37	BASE	243.27	8.96	18.50	0	0.37	0.00	20.65	0.00
10yr3d	NSLRWCD C37	BASE	243.52	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	243.77	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	244.02	8.96	18.50	0	0.37	0.00	20.67	0.00
10yr3d	NSLRWCD C37	BASE	244.27	8.95	18.50	0	0.37	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	244.52	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	244.77	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	245.02	8.95	18.50	0	0.37	0.00	20.70	0.00
10yr3d	NSLRWCD C37	BASE	245.27	8.94	18.50	0	0.37	0.00	20.71	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	245.75	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.37	0.00	20.73	0.00
10yr3d	NSLRWCD C37	BASE	246.25	8.93	18.50	0	0.37	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.36	0.00	20.76	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.36	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.36	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.36	0.00	20.80	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.36	0.00	20.82	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.36	0.00	20.83	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.36	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.36	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.36	0.00	20.88	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.36	0.00	20.89	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.36	0.00	20.91	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.36	0.00	20.92	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.35	0.00	20.94	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.35	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.35	0.00	20.97	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.35	0.00	20.99	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.35	0.00	21.00	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.35	0.00	21.02	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.35	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.35	0.00	21.05	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.35	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.35	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.34	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.34	0.00	21.09	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.34	0.00	21.10	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.34	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.34	0.00	21.14	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.34	0.00	21.16	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.34	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.34	0.00	21.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.34	0.00	21.21	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.33	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.33	0.00	21.24	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.33	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.33	0.00	21.28	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.33	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.33	0.00	21.32	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.33	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.33	0.00	21.36	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.32	0.00	21.38	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.32	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.32	0.00	21.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.32	0.00	21.44	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.32	0.00	21.46	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.32	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.32	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.32	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.31	0.00	21.54	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.31	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.31	0.00	21.58	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.31	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.31	0.00	21.63	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.31	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.30	0.00	21.68	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.30	0.00	21.70	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.30	0.00	21.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.30	0.00	21.76	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.30	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.30	0.00	21.79	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.30	0.00	21.79	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.29	0.00	21.81	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.29	0.00	21.84	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.29	0.00	21.87	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.29	0.00	21.90	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.28	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.28	0.00	21.97	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.28	0.00	22.00	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.28	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.27	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.27	0.00	22.13	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.27	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.27	0.00	22.14	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.27	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.26	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.26	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.26	0.00	22.26	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.26	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.25	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.25	0.00	22.39	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.25	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.24	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.24	0.00	22.46	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.24	0.00	22.46	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.23	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.22	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.21	0.00	22.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.21	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.20	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.19	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.18	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.17	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.17	0.00	22.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.14	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.14	0.00	23.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00

Appendix E – Net Improvement Analysis

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

GENERAL SITE INFORMATION: V 8.6 | GO TO INTRODUCTION PAGE | 6/18/2018 | Blue Numbers = Input data | Red Numbers = Calculated or Carryover

Select the appropriate Meteorological Zone, input the appropriate Mean Annual Rainfall amount and select the type of analysis

NAME OF PROJECT: Camping World

HELP Rainfall

VIEW ZONE MAP

Meteorological Zone (Please use zone map): CLICK ON CELL BELOW TO SELECT → Zone 5

Mean Annual Rainfall (Please use rainfall map): 55.00 Inches

VIEW MEAN ANNUAL RAINFALL MAP

Type of analysis: CLICK ON CELL BELOW TO SELECT → Net improvement

Treatment efficiency (N, P) (ex 80 70 (no decimal points) **use only for specified removal efficiency**): % %

GO TO WATERSHED CHARACTERISTICS

Select the STORMWATER TREATMENT ANALYSIS Button below to begin analyzing the effectiveness of Best Management Practices.

Model documentation and example problems.

STORMWATER TREATMENT ANALYSIS

Systems available for analysis:
Retention Basin with option for calculating effluent concentration
Wet Detention
Exfiltration Trench
Pervious Pavement
Stormwater Harvesting
Biofiltration
Greenroof
Rainwater Harvesting
Managed Aquatic Plants Detention
Vegetated Natural Buffer
Vegetated Filter Strip
Swale
Rain Garden
Tree Well
Lined reuse pond
User Defined BMP

There is a user's manual for the BMPTRAINS model. It can be downloaded from www.stormwater.ucf.edu. The results from the example problems shown in the manual however may not reflect current model results due to ongoing updates of the model.

RESET INPUT FOR STORMWATER TREATMENT ANALYSIS

METHODOLOGY FOR CALCULATING REQUIRED TREATMENT EFFICIENCY

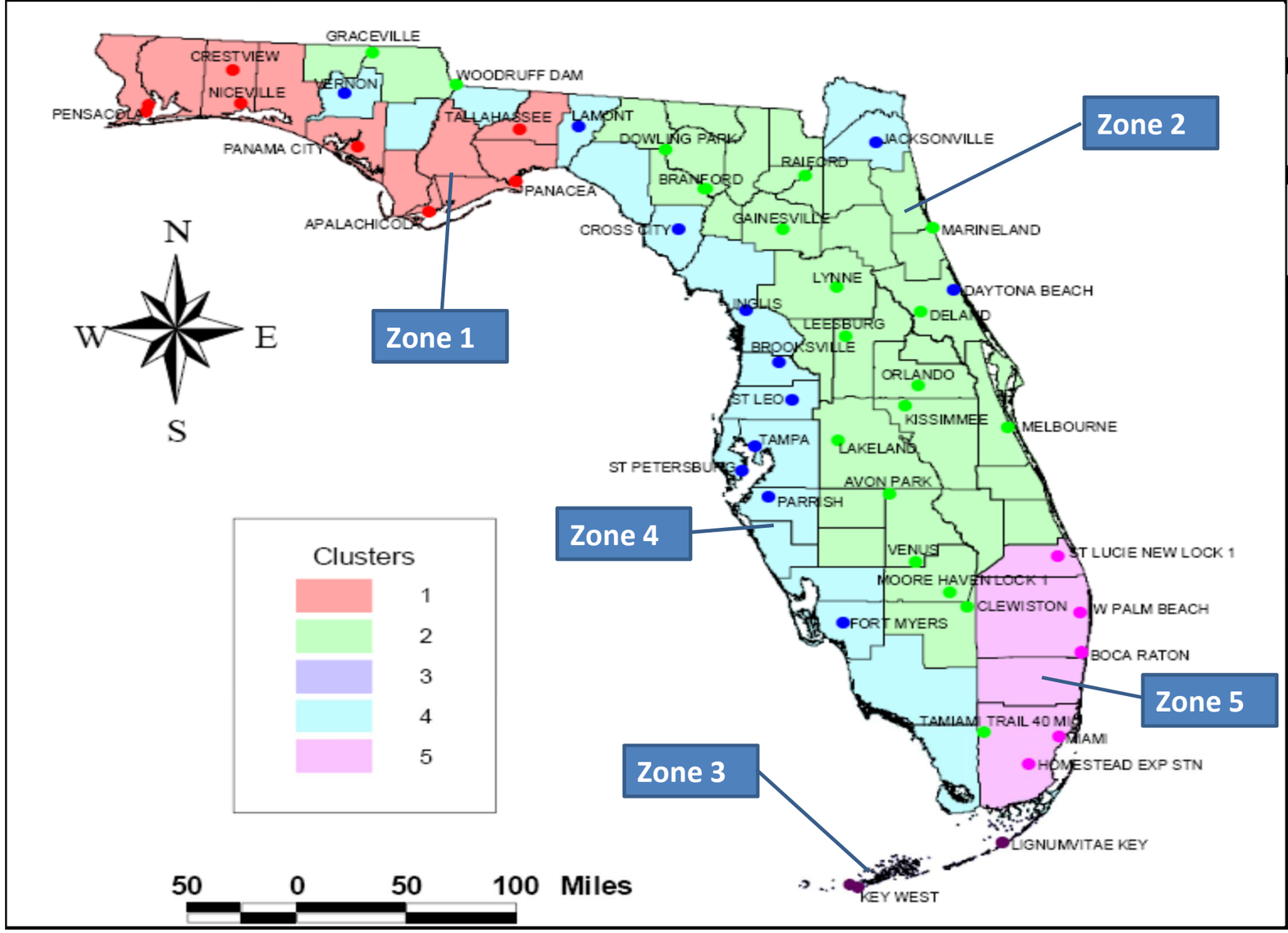
METHODOLOGY FOR RETENTION SYSTEMS

METHODOLOGY FOR WET DETENTION SYSTEMS

METHODOLOGY FOR GREENROOF SYSTEMS

METHODOLOGY FOR WATER HARVESTING SYSTEMS

ZONE MAP	DESIGNATED METEOROLOGICAL REGIONS (ZONES) IN FLORIDA



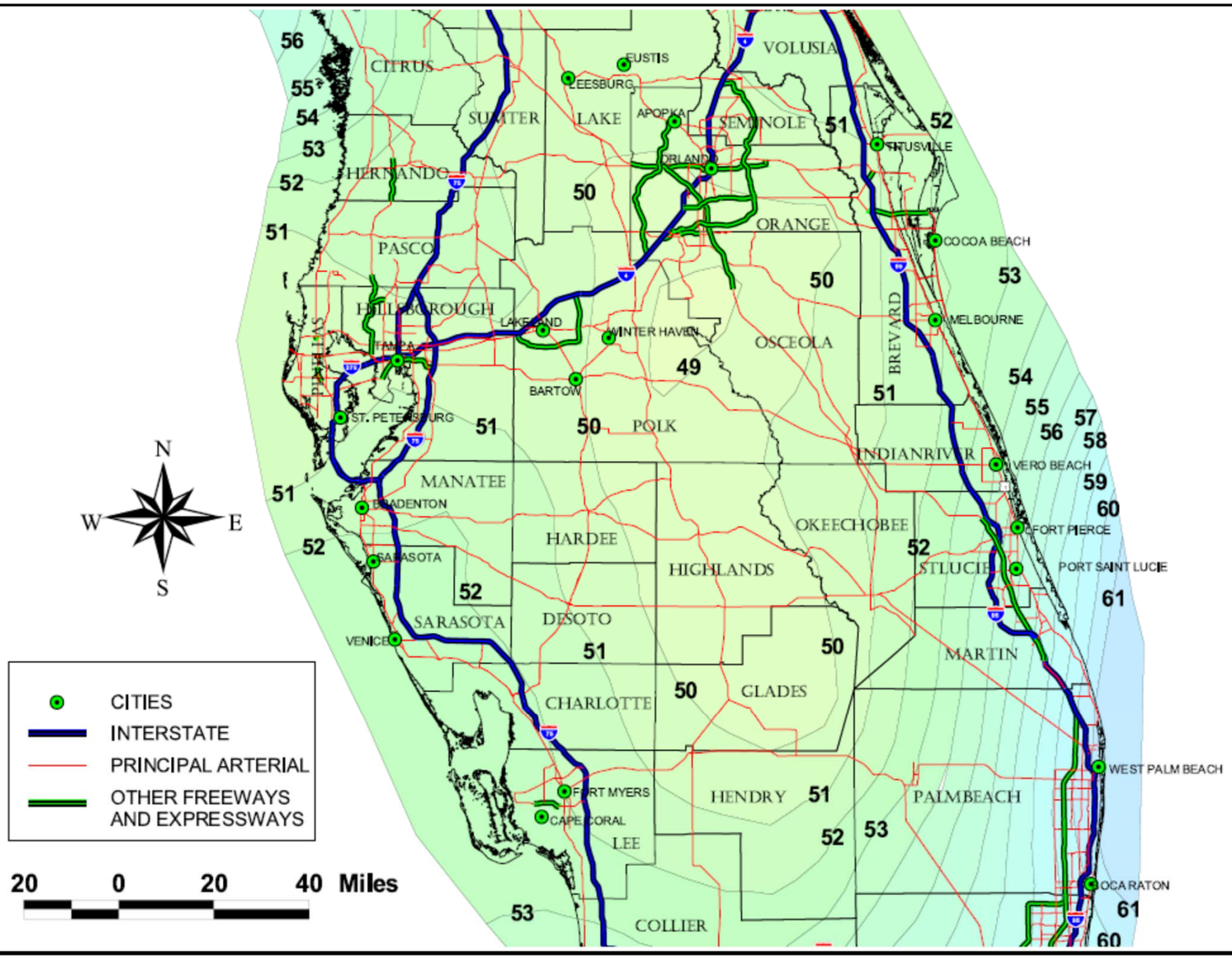
GO TO GENERAL SITE INFORMATION

GO TO STORMWATER HARVESTING SYSTEM

GO TO RAINWATER HARVESTING SYSTEM

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

MEAN ANNUAL RAINFALL MAP



Isopleths of Mean Annual Precipitation in Florida from 1971-2000.

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

GO TO GENERAL SITE

GO TO MAIN MAP

WATERSHED CHARACTERISTICS V 8.6

GO TO STORMWATER TREATMENT ANALYSIS

Blue Numbers = Input data
Red Numbers = Calculated

LAND USES/EMC

SELECT CATCHMENT CONFIGURATION 6/18/2018

CLICK ON CELL BELOW TO SELECT CONFIGURATION

B - 2 Catchment-Series

VIEW CATCHMENT CONFIGURATION

For comingling, the off-site catchment must be upstream. The delay is only for retention BMPs and must be used in hours as measured by the time of concentration at a one inch/hour rain

COMINGLING | MULTI-LAND USE

GO TO GENERAL SITE INFORMATION PAGE

VIEW AVERAGE ANNUAL RUNOFF "C" Factor

VIEW EMC & FLUCCS

GO TO GIS LANDUSE DATA

CATCHMENT NO.1 NAME: Existing Offsite

Delay [hrs] | max delay = 15 hrs.

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS USING:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	16.030	AC	Average annual pre runoff volume:	7.385 ac-ft/year
Total post-development catchment or for BMP analysis:	16.030	AC	Average annual post runoff volume (note no BMP area):	7.385 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Pre-development DCIA percentage:	4.13	%	Pre-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Post-development Non DCIA CN:	64.00		Post-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Post-development DCIA percentage:	4.13	%	Post-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Estimated BMP Area (No loading from this area)	0.000	AC		

CATCHMENT NO.2 NAME: Camping World & Outparcel

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Low-Intensity Commercial: TN=1.13 TP=0.188
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	28.970	AC	Average annual pre runoff volume:	11.716 ac-ft/year
Total post-development catchment or BMP analysis area:	28.970	AC	Average annual post runoff volume (note no BMP area):	48.436 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	32.365 kg/year
Pre-development DCIA percentage:	2.48	%	Pre-development Annual Mass Loading - **Phosphorus:**	2.644 kg/year
Post-development Non DCIA CN:	94.00		Post-development Annual Mass Loading - **Nitrogen:**	67.500 kg/year
Post-development DCIA percentage:	1.86	%	Post-development Annual Mass Loading - **Phosphorus:**	11.230 kg/year
Estimated BMP Area (No loading from this area)	3.927	AC		

CATCHMENT NO.3 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

CATCHMENT NO.4 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

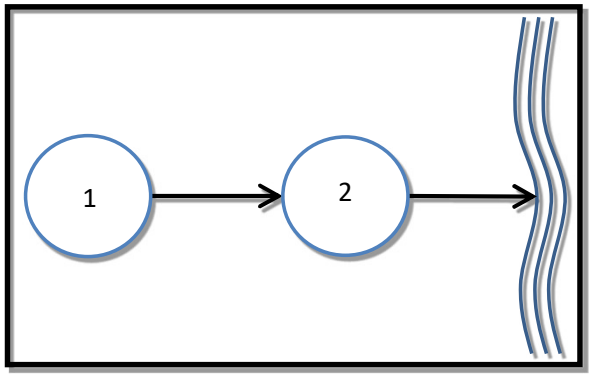
Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

STORMWATER TREATMENT ANALYSIS:	V 8.6	GO TO GENERAL SITE INFORMATION PAGE	Blue Numbers =	Input data
			Red Numbers =	Calculated

If not done, specify pre- and post-development watershed characteristics.

6/18/2018

GO TO WATERSHED CHARACTERISTICS



Total Required Treatment Efficiency:

Required Treatment Eff (**Nitrogen**):	40 %
Required Treatment Eff (**Phosphorus**):	67 %

Select one of the BMPs below to analyze efficiency or review the summary data.

RETENTION BASIN	WET DETENTION / MAP	EXFILTRATION TRENCH	RAIN GARDEN / depression storage	SWALE	USER DEFINED BMP
PERVIOUS PAVEMENT	STORMWATER HARVESTING	FILTRATION	View Media Mixes	NOTE !!!: All individual system must be sized prior to being analyzed in conjunction with other systems. Please read instructions in the CATCHMENT AND TREATMENT SUMMARY RESULTS tab for more information.	
GREENROOF	RAINWATER HARVESTING	LINED REUSE POND & UNDERDRAIN INPUT	GO TO COST ANALYSIS WORKSHEET		
VEGETATED NATURAL BUFFER	VEGETATED FILTER STRIP	TREE WELL	CATCHMENT AND TREATMENT SURFACE		

Wet Detention Lake Permanent Pool Volume

ELEVATION (NAVD)	AREA (ACRE)	INCREMENTAL VOLUME (ACFT)	CUMULATIVE VOLUME (ACFT)
10.00	3.19		0.00
		6.10	
8.00	2.91		6.10
		25.80	
-2.00	2.25		31.90

Anoxic depth assumed at 12 feet below control elevation

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WET DETENTION / MANAGED AQUATIC PLANTS: 6/18/2018 V 8.6

Blue Numbers =	Input data
Red Numbers =	Calculated or Carryover

Also called: FLOATING ISLANDS and includes a wet detention pond:

Camping World

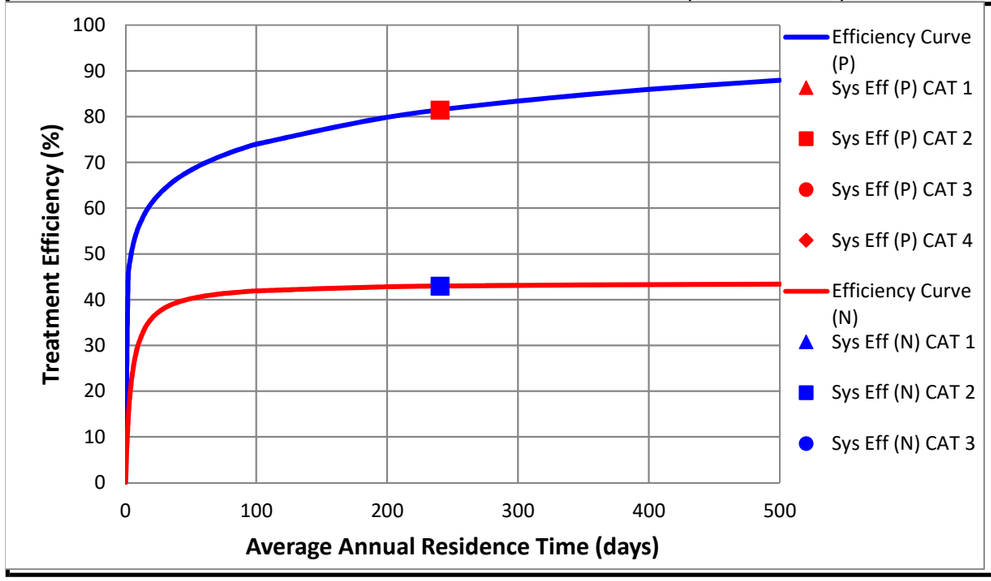
GO TO STORMWATER TREATMENT ANALYSIS

	Existing Offsite	World & Ou	Catchment 3	Catchment 4	
Total pre-development catchment area:	16.030	28.970	0.000	0.000	ac
Total post-development catchment area:	16.030	25.043	0.000	0.000	ac
Average annual residence time (between 1 and 500 days)		240.40			days
Littoral Zone or other improvements used?*		NO			
Littoral Zone or other improvement efficiency credit:					%
Floating Wetland or Mats used in the design:		NO			
Floating Wetland or Mats credit:					%
Total **Nitrogen** removal required:	0.000	52.051			%
Total **Phosphorus** removal required:	0.000	76.455			%
Total **Nitrogen** removal efficiency:	0.000	42.967	0.000	0.000	%
Total **Phosphorous** removal efficiency:	0.000	81.465	0.000	0.000	%
Is the wet detention sufficient:		NO			
Average annual runoff volume:	7.385	48.436			ac-ft/yr

* pond coverage must follow Regulatory Requirements

Wet Detention Pond Characteristic:

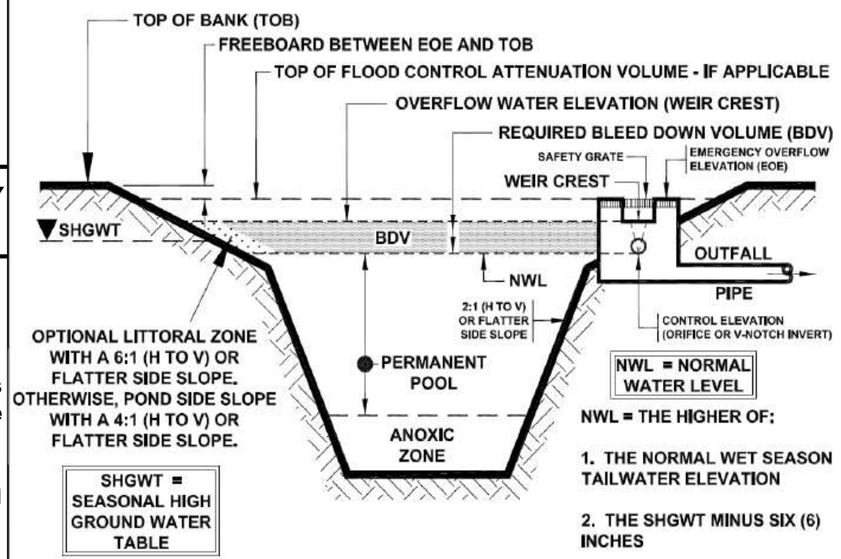
Minimum Pond Permanent Pool Volume:		31.901			ac-ft



NOTE FOR TREATMENT EFFICIENCY GRAPH:

The purpose of the treatment efficiency graphs is to help illustrate the treatment efficiency of the wet detention system as the function of average annual residence time (and permanent pool volume). The graph illustrates that there is a point of diminished return as the permanent pool volume is substantially increased. Therefore, to provide the most economical BMP treatment system, other alternatives such as "treatment trains" and compensatory treatment should be considered.

REQUIRED REMAINING TREATMENT EFFICIENCIES OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION. USE FOR SIZING OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION.



TYPICAL X-SECTION OF A WET DETENTION SYSTEM

Source of Graphic: draft **STORMWATER QUALITY APPLICANT'S HANDBOOK** dated March 2010, by the Department of Environmental Protection, available at: http://www.dep.state.fl.us/water/wetlands/erp/rules/stormwater, March 2010

CATCHMENTS AND TREATMENT SURFACE DISCHARGE SUMMARY V 8.6

CALCULATION METHODS:

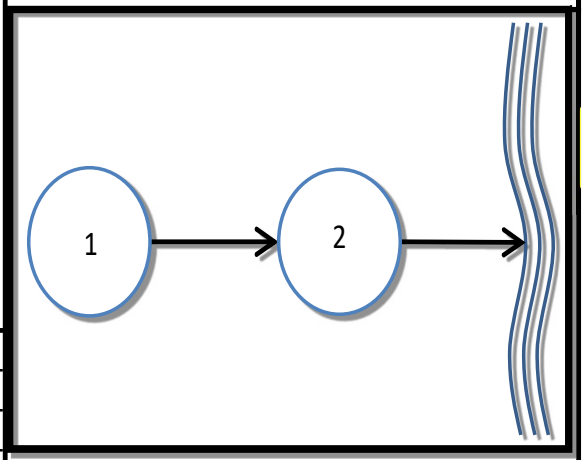
1. The effectiveness of each BMP in a single catchment is converted to an equivalent capture volume.
2. Certain BMP treatment train combinations have not been evaluated and in practice they are at this time not used, an example is a greenroof following a tree well.
3. Wet detention is last when used in a single catchment with other BMPs, except when followed by filtration

PROJECT TITLE	Camping World	Optional Identification		
	Existing Offsite	mping World & Outpar	Catchment 3	Catchment 4
BMP Name		Wet Detention/ MAPs		
BMP Name				
BMP Name				

REVIEW, ONE OR MORE CATCHMENT HAS BEEN SPECIFIED WITHOUT A BMP

Surface Water Discharge Summary Performance of Entire Watershed

Catchment Configuration	B - 2 Catchment-Series		6/18/2018
Nitrogen Pre Load (kg/yr)	52.77	Treatment Objectives or Target for TN MET TP MET	BMPTRAINS MODEL
Phosphorus Pre Load (kg/yr)	4.31		
Nitrogen Post Load (kg/yr)	87.90		
Phosphorus Post Load (kg/yr)	12.90		
Target Load Reduction (N) %	40		
Target Load Reduction (P) %	67		
Target Discharge Load, N (kg/yr)	52.74		
Target Discharge Load, P (kg/yr)	4.26		
Provided Overall Efficiency, N (%):	41		
Provided Overall Efficiency, P (%):	80		
Discharged Load, N (kg/yr & lb/yr):	51.59	113.63	
Discharged Load, P (kg/yr & lb/yr):	2.59	5.71	
Load Removed, N (kg/yr & lb/yr):	36.31	79.98	
Load Removed, P (kg/yr & lb/yr):	10.30	22.69	



Appendix F – Supporting Documentation

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 56-02469-P
DATE ISSUED: June 28, 2006

Form #0941
08/95

PERMITTEE: SCHOOL BOARD OF ST LUCIE COUNTY
327 N W COMMERCE PARK DR
PORT ST LUCIE, FL 34986

PROJECT DESCRIPTION: Construction and operation of a surface water management system to serve a 17.72-acre project known as Jenkins Road K-8 School.

PROJECT LOCATION: ST LUCIE COUNTY, SEC 19 TWP 35S RGE 40E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 060412-11, dated April 12, 2006. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6) ,
3. the attached 17 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 28th day of June, 2006, in accordance with Section 120.60(3), Florida Statutes.

BY: _____

For Anthony M. Waterhouse, P.E.
Director - Surface Water Management
Palm Beach Service Center

Certified mail number 7005 0390 0005 9815 0488

Name: 10 Yr 72 Hr Hydrology Sim: 10 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\10 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
200.000	15.000

Group	Run
BASE	Yes

Name: 25 Yr 72 Hr Hydrology Sim: 25 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\25 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
100.000	15.000

Group	Run
BASE	Yes

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

==== Boundary Conditions ====

Name: 10 Yr 24 Hr Node: Bndy Type: Stage

Time(hrs)	Stage(ft)
0.000	9.250
1.330	10.890
2.670	11.230
4.000	12.240
5.330	11.610
6.670	11.060
8.000	10.890
9.330	11.000
10.670	11.240
12.000	12.530
13.330	11.770
14.670	11.120
16.000	10.920
17.330	11.120
18.670	11.480
20.000	13.420
21.330	12.280
22.670	11.300
24.000	11.000

Name: 10 Yr 72 Hr Node: Bndy Type: Stage

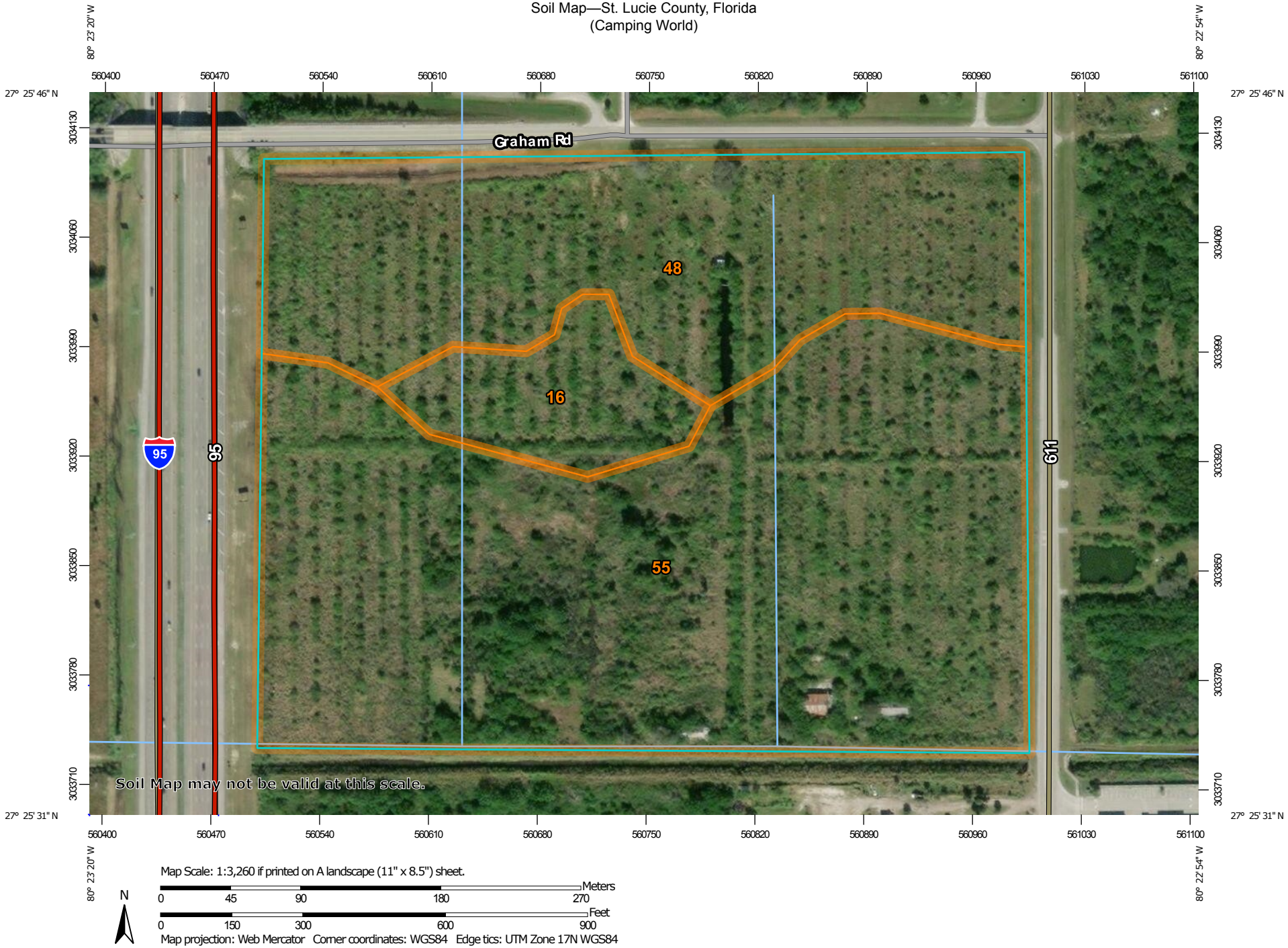
Time(hrs)	Stage(ft)
0.000	9.250
4.000	12.050
8.000	12.420
12.000	13.530
16.000	12.830
20.000	12.230

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

24.000	12.050
28.000	12.170
32.000	12.430
36.000	13.860
40.000	13.010
44.000	12.300
48.000	12.080
52.000	12.300
56.000	12.700
60.000	14.840
64.000	13.580
68.000	12.490
72.000	12.170

Soil Map—St. Lucie County, Florida
(Camping World)



Map Scale: 1:3,260 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 45 90 180 270

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

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

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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: St. Lucie County, Florida
Survey Area Data: Version 10, Oct 6, 2017

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

Date(s) aerial images were photographed: Dec 31, 2009—Dec 15, 2017

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Hilolo loamy sand	3.3	7.2%
48	Wabasso sand, 0 to 2 percent slopes	15.1	32.4%
55	Winder loamy sand	28.1	60.5%
Totals for Area of Interest		**46.6**	**100.0%**

RANGE 38 EAST

RANGE 39 EAST

RANGE 40 EAST

TOWNSHIP 35 SOUTH

TOWNSHIP 36 SOUTH

FORT PIERCE

INDIAN RIVER

ORANGE AVE.

Site Location

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

GENERAL WATER ELEVATIONS

DRY SEASON	WET SEASON
19.4	17.0
18.4	14.2
18.2	14.0
17.4	14.0
17.0–17.6	14.3
16	16
14.0	11.0
13.0	10.0
12	12
11	11
9.5	6.5
9.25	6
8.5	8.5
?	8
6	6
?	4
3.1	3.1
TIDAL	TIDAL

NOTES

1. The canal right-of-ways shown hereon are based on the Original Plan of Reclamation, Order of Taking and Deeds. Where discrepancies were found, the right-of-way width indicated in Order of Taking and Deeds were used.
2. The n-numbered canals are right-of-ways deeded to the District subsequent to the Adoption of the Plan of Reclamation.
3. Some portions of right-of-ways as shown hereon have been deeded to Federal, State, County and Local Agencies for road and drainage purposes.
4. The bench marks shown hereon (NO1 through NO48) were established in June 1975 and refer to elevations established by the F.C.E. for MON. 1442.
5. The elevations denoted thus were taken from the District Map prepared by Others, copies of which are on file in the District Office. Culvert and invert elevations or other structure may affect control elevations throughout the system. It is recommended that the District be consulted on Control.
6. Designer should not rely solely on this drawing

LEGEND

Applicable Right-of-Way Width Each Side of Line

Center of Section

Section or 1/4 Section Line

Change in Right-of-Way Width at Section, 1/4 Section or 1/4-1/4 Section Corners

Roadways

Railroad

Bridges

Private Pumping Station

District Back Pump

NSLRWCD WATER QUALITY TESTING FOR DEP CONTRACT No. WAP055

1. STRUCTURE 23-1
2. NF ST. LUCIE RIVER @ MIDWAY ROAD
3. PUMP STATION NO. 3
4. STRUCTURE 44-1
5. PUMP STATION NO. 1
6. PUMP STATION NO. 2
7. STRUCTURE 58-1
8. STRUCTURE 71-2
9. STRUCTURE 88-1
10. STRUCTURE 40-1
11. STRUCTURE 29-3
12. STRUCTURE 56-2

NSLRWCD IMPROVEMENTS

- TRASH BOOM
- WATER CONTROL STRUCTURE
- C-25 DIVERSION

STRUCTURE LEGEND

- FLASHBOARD RISER
- SINGLE SLIDE GATE
- DOUBLE SLIDE GATE
- FIXED WEIR
- RADIAL GATE
- SLUICE GATE
- ??-?-? CANAL NUMBER / STRUCTURE NUMBER / NUMBER OF GATES

PROPOSED STRUCTURES

- PROPOSED FIXED WEIR
- S = STAGE RECORDER, F = FLOW MEASUREMENT, R = RAINFALL GAUGE

N

0 1/4 1/2 3/4 1

SCALE IN MILES

GENERALIZED CANAL ELEVATIONS MAP FOR THE NORTH ST. LUCIE RIVER WATER CONTROL DISTRICT

ST. LUCIE COUNTY, FLORIDA

2721 S. JENKINS ROAD FORT PIERCE, FLORIDA 34981
PHONE: (561) 461-5050 FAX: (561) 461-9446

ORIGINAL MAP BY:
S. P. Mulk, P.L.S.
Vero Beach, FL (1987)

UPDATED BY:
LBFH, Inc., Ft. Pierce, FL
(REVISED 01-23-02)

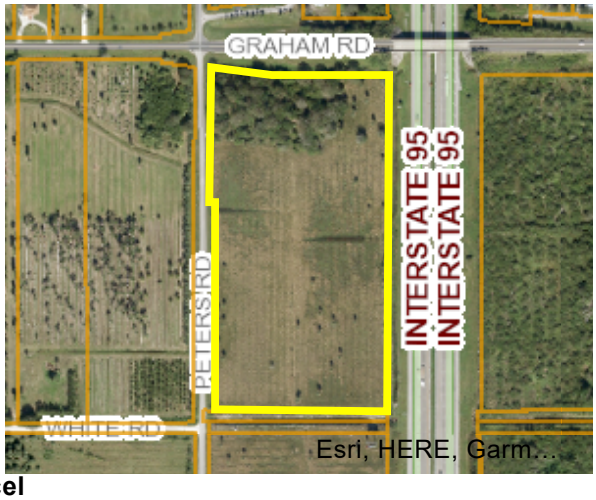
P\74-0901\CONTROLS.DWG

P:\74-0901\Maps\CONTROLS2-02-05-2004.dwg, 03/05/2004 11:08:45 AM, Russ-C, LBFH Inc.

Saint Lucie County Property Appraiser
Michelle Franklin CFA

Report generated: Tuesday, April 6, 2021

Parcel Report



Parcel

PARCELNO:	2313-432-0000-000-4
Property ID:	13775
Owner1:	R V Development Llc
SiteAddress:	2192 COPENHAVER RD

Owner

Owner1:	R V Development Llc
Owner2:	
Owner3:	
MailingAddress:	%Bud Wynne 547 Wash Roberts Ln McMinnville, TN 37110-4971

Overview

PrimaryLandUse:	6000 - GRZNG SLD CP
DistrictGroup:	0002 - Saint Lucie County
Subdivision:	Metes and Bounds
Just/Market Value:	$308,400
FinishedArea:	
Acres:	16.81
TotalArea:	732,243.6

Legal Description

LegalDescription: 13 35 39 W 1/2 OF SW 1/4 OF SE 1/4 LYG SLY AND WLY OF I-95 R/W (16.81 AC) (OR 1828-2810)

Value History

Year	Just/Market Value	Building Value	Land Value	SFYI Value	Assessed Value	Exemption Amount	County Taxable	Save Our Home OR 10% Cap Differential	Ag Credit
2020	$308,400	$0	$308,400	$0	$15,149	$0	$15,149	$17,651	$275,600
2019	$315,600	$7,200	$308,400	$0	$23,712	$0	$23,712	$16,288	$275,600
2018	$287,900	$7,500	$280,400	$0	$22,911	$0	$22,911	$17,389	$247,600

Tax Links

SLC Tax Collector's Office taxes for this parcel

Download TRIM notice for this parcel

Special Assessments

Description	Start Year	Units	Amount
North St. Lucie Water Management District	2013	16.81	$310.99
County Solid Waste	2009	12	$276.14

Land Lines

Line Number	Units	Unit Type
1	16	MACR
2	16	CACR
3	0.81	Acre

Sales History

Sale Date	Sale Price	Sale Code	Deed Type	Grantor	Book Page	View Document
09/24/2003	$1,750,100	XX02	WD	Griffin Chester B	1828-2810	Clerk of Courts
12/31/1899	$0				-	Clerk of Courts

Photos

