# City of Sanibel

800 Dunlop Road
Sanibel, FL 33957

## Meeting Agenda - Final

## City Council

**Tuesday, April 21, 2026** | **9:00 AM** | **MacKenzie Hall - 800 Dunlop Road**

**Organizational Meeting**

**PLEASE NOTE THAT THE CITY COUNCIL AGENDA IS SUBJECT TO CHANGE.**

**A COPY OF THE AGENDA PACKET IS AVAILABLE ON THE CITY'S WEBSITE AT WWW.MYSANIBEL.COM**

**"The Rules of Civility for Public Participation" as adopted by City Council can be found on the last page of this agenda. Reminder: Please turn all cell phones on to vibrate while in MacKenzie Hall.**

**1. CALL TO ORDER BY JOHN AGNEW, CITY ATTORNEY**

**2. INVOCATION AND PLEDGE OF ALLEGIANCE (Councilmember Smith)**

**3. ROLL CALL**

**4. ELECTION OF MAYOR AND OATH OF OFFICE**

*(Meeting Temporarily chaired by Attorney Agnew)*

**5. ELECTION OF VICE MAYOR AND OATH OF OFFICE**

*(Meeting chaired by Mayor)*

**RECESS FOR PHOTO OF COUNCIL**

**6. SET THE AGENDA**

**7. PLANNING COMMISSION REPORT (Chair Nichols)**

**8. PUBLIC COMMENTS FOR NON-AGENDA ITEMS**

*(Maximum time allotted, 20 minutes, with a limitation of 3 minutes per speaker.)*

**9. PRESENTATION(S)**

**a.** Recognition of the Employee of the 2nd Quarter, Fiscal Year 2026 - Linda Garcia, Senior Administrative Assistant (Sanibel Police Department)

*Attachments:* PowerPoint Slide

## 10. 9:30 AM PUBLIC HEARING

**a.** Appeal of Planning Commission's Decision of Resolution 26-10

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, [UPHOLDING/REVERSING/MODIFYING/REMANDING] THE PLANNING COMMISSION'S DECISION DETAILED IN SANIBEL PLANNING COMMISSION RESOLUTION 26-10, REGARDING PERMIT SUBDIVISION PLAT APPLICATION NO. SPLT-2022-000074 DATED MARCH 24, 2026, TO ALLOW REVISION OF AN APPROVED PRELIMINARY PLAT, TO AMEND ALLOCATED IMPERMEABLE COVERAGE FOR LOTS 1 THROUGH 6 AT A UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) DEVELOPMENT KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), LOCATED AT 5325 AND 5301 SANIBEL CAPTIVA ROAD, PARCEL NOS. 13-46-21-T2-00002.4000 AND 13-46-21-T2-00002.2000, RESPECTIVELY; AND PROVIDING AN EFFECTIVE DATE**

*Attachments:* Agenda Memorandum
Resolution 26-016
Section 82-98, Code of Ordinances
PC Resolution 26-10
Notice of Appeal Cover Letter
Administrative Appeal Resolution 26-10 Coastal Creek
V1CoastalCreek
V2CoastalCreek
V3CoastalCreek
V4 Coastal Creek
V5 Coastal Creek
Staff PowerPoint 3-24-2026

## 11. DISCUSSIONS OF DRAFT LEGISLATION

**a.** Vegetation - Chapter 122

**DISCUSSION ONLY - DRAFT ORDINANCE 26-006 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MAINTENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING**

**FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
DRAFT Ordinance 26-006
PC Resolution 26-09
PowerPoint

**b.** Remove Obsolete Prohibition of Flat Roofs for Multifamily Buildings (PC Res 26-07)

**DISCUSSION ONLY - DRAFT ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
DRAFT Ordinance 26-008
PC Resolution 26-07

**c.** Speed Limits

**DISCUSSION ONLY - DRAFT ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, CHAPTER 66, TRAFFIC, ARTICLE III, SPEED LIMITS, DIVISION 1, GENERALLY, SECTION 66-121, THIRTY-FIVE MILE PER HOUR SPEED LIMIT, AND DELETING SECTION 66-122, BRIDGE AT BUELL CREEK; SPEED LIMIT; TO ALLOW CITY COUNCIL TO ESTABLISH SPEED LIMITS WITHIN THE CITY VIA RESOLUTION; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
DRAFT Ordinance 26-011

## 12. FIRST READING OF AN ORDINANCE AND SCHEDULING OF PUBLIC HEARING

*Note: The First Reading is not a public hearing and no discussion or testimony will be taken unless the ordinance changes permitted conditional or prohibited uses as required by State Statute*

**a.** Vegetation - Chapter 122

**ORDINANCE 26-006 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50,**

**INSTALLATION STANDARDS, AND SECTION 122-51, MAINTENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
Ordinance 26-006
PC Resolution 26-09

**b.** Remove Obsolete Prohibition of Flat Roofs for Multifamily Buildings (PC Res 26-07)

**FIRST READING - ORDINANCE 26-008 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
Ordinance 26-008
PC Resolution 26-07

**c.** Gasoline-Powered Leaf Blowers

**ORDINANCE 26-010 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, BY DELETING IN ITS ENTIRETY CHAPTER 30, ENVIRONMENT, ARTICLE III, NOISE, SECTION 30-70, GAS POWERED LEAF BLOWERS, TO COMPLY WITH CHAPTER 2026-3, LAWS OF FLORIDA; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
Ordinance 26-010
SB 290 - see page 13
Chapter 2026-3 Laws of Florida
Public Comments as of 1 pm 4/15/26

**d.** Speed Limits

**ORDINANCE 26-011 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, CHAPTER 66, TRAFFIC, ARTICLE III, SPEED LIMITS, DIVISION 1, GENERALLY, SECTION 66-121, THIRTY-FIVE MILE PER HOUR SPEED LIMIT, AND DELETING SECTION 66-122,**

**BRIDGE AT BUELL CREEK; SPEED LIMIT; TO ALLOW CITY COUNCIL TO ESTABLISH SPEED LIMITS WITHIN THE CITY VIA RESOLUTION; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

***Attachments:*** Agenda Memorandum
Ordinance 26-011

## 13. COUNCIL COMMENTS

## 14. OLD BUSINESS

**a.** 2025 On-island Water Quality Program Update

***Attachments:*** Agenda Memorandum
Presentation
2025 Sanibel Community Lakes Report
2025 Sanibel Clean Canals Report

**b.** Annual Shared Use Path (SUP) Count Report

***Attachments:*** Shared Use Path Study Results FINAL 2026

**c.** Discussion of reducing speed limits on Periwinkle Way, Rabbit Road, and a segment of Sanibel-Captiva Rd. between Rabbit Road and the western limit of the Sanibel School Speed Zone

***Attachments:*** Agenda Memorandum
DRAFT Resolution 26-012
PowerPoint
Sanibel Speed Study Passing Zone Analysis
Wildlife Mortality Monitoring and Reporting - 11-4-2026

**d.** Council Liaison Discussion and Appointments

***Attachments:*** Agenda Memorandum
Liaison List

## 15. NEW BUSINESS

**a.** Consideration of adding “miniature golf” to the Land Development Code as an allowable conditional use

***Attachments:*** Agenda Memorandum
Outline Mini Golf
PowerPoint Presentation

## 16. CONSENT AGENDA

*ANY PERSON MAY REQUEST THAT COUNCIL REMOVE AN ITEM FROM THE CONSENT AGENDA FOR DISCUSSION BY NOTIFYING THE CITY MANAGER, CITY CLERK, OR A COUNCIL MEMBER PRIOR TO OR AT THE MEETING.*

### CONSENT ITEMS PULLED FOR DISCUSSION

BUSINESS ITEMS

**a.** Adoption of Minutes

***Attachments:*** March 3, 2026 Minutes
March 17, 2026 Minutes

**b.** Annual Independence Day Parade Special Event Application and request for City co-sponsorship

***Attachments:*** Agenda Memorandum
SE Permit 26-090 Independence Day Parade 07.04.26

**c.** Approval of an agreement between Zambelli Fireworks Manufacturing Company and the City of Sanibel for the Independence Day fireworks display in the amount of $33,000 and authorize the City Manager to execute same

***Attachments:*** Agenda Memorandum
Zambelli Fireworks Agreement - 2026
Exhibit A Zambelli Proposal 2026
Exhibit B Zambelli Site Plan 2026

**d.** Fishing Pier Temporary Repairs Pending Full Replacement

***Attachments:*** Agenda Memorandum
Sanibel Fishing Pier Fund Agreement Signed 2026-04-08
Sanibel Fishing Pier Plans R1

## 17. INFORMATIONAL ITEMS

**a.** Tradewinds Update

***Attachments:*** Agenda Memorandum

**b.** Water Quality Report from Natural Resources Department

***Attachments:*** Agenda Memorandum
SCCF/NGO Letter to SFWMD/USACE

**c.** Advisory Committee Annual Reports
i. Historical Preservation Committee
ii. Parks & Recreation Advisory Committee

iii. Vegetation Committee

***Attachments:*** Parks and Recreation Advisory Committee Annual Report 2025
Historical Preservation 2025 Annual Report
Vegetation Committee 2025 Annual Report

## 18. GENERAL COUNCIL DISCUSSION

*(Including comments, future agenda items, and general discussion)*

**a.** Future Agenda Items Matrix

***Attachments:*** Future Agenda Items Matrix

## 19. CITY MANAGER'S REPORT

## 20. CITY ATTORNEY'S REPORT

## 21. PUBLIC COMMENT

## 22. ADJOURNMENT

IF A PERSON DECIDES, TO APPEAL A DECISION MADE BY THE COUNCIL ON ANY MATTER CONSIDERED AT THIS MEETING/HEARING, SUCH PERSON MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDINGS IS MADE, TO INCLUDE THE TESTIMONY AND EVIDENCE UPON WHICH ANY SUCH APPEAL IS TO BE BASED.

IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, PERSONS NEEDING A SPECIAL ACCOMMODATION TO PARTICIPATE IN THIS PROCEEDING, TO INCLUDE HEARING IMPAIRMENT, SHOULD CONTACT SCOTTY LYNN KELLY, CITY CLERK, NO LATER THAN ONE DAY PRIOR TO THE PROCEEDINGS AT (239) 472-3700. FOR ADDITIONAL ASSISTANCE IF HEARING IMPAIRED, TELEPHONE THE FLORIDA RELAY SERVICE AT 711.

Citizens may request to receive Sanibel City Council and Planning Commission meeting agenda directly via e-mail. Citizens wishing to receive a copy of the agenda via e-mail may do so by visiting the City's website at www.mysanibel.com. Additionally, citizens may register to receive City announcements such as press releases.

Prior to requesting the agendas, the website reminds citizens that all e-mail addresses and requests submitted to the City are public information and governed by the applicable Florida Statute.

## HORIZON – UPCOMING IMPORTANT DATES

Upcoming Important Dates

***Attachments:*** Horizon Schedule

## "RULES OF CIVILITY FOR PUBLIC PARTICIPATION"

**In recognition that public discourse is essential to the democratic system of government on April 16, 2002, Sanibel City Council adopted a Proclamation embracing civility in public deliberations. These rules were updated February 22, 2007.**

**Therefore, Sanibel City Council sanctioned these rules for public participation while conducting meetings and workshops:**

**1. Speakers are permitted to deliver his or her comments without interruption.**

**2. Speakers and debates should focus on issues, not on persons or personalities.**

**3. Persons are encouraged to participate in the governmental process.**

**4. To allow time to hear all points of view, speakers are allotted 3 minutes each time they are recognized.**

**5. Sidebar discussions while others are speaking are not permitted in Council Chambers. These discussions are to be removed from the chamber so as not to be disruptive to those conducting and following Council business.**

**6. Only the speaker recognized by the Chairperson has the floor. Speakers should raise their hand to be recognized. Speakers should identify themselves for the record. Speakers should utilize the microphone so that their comments can be recorded.**

**7. Anyone wishing to speak on an issue is given an opportunity to speak before speakers are recognized for an opportunity to speak a second time on an issue.**

**8. We seek to understand one another's points of view.**

**9. Anger, rudeness, ridicule, impatience and lack of respect for others are not acceptable behavior. Demonstrations in support or opposition to a speaker or idea such as clapping, cheering, booing or hissing or intimidating body language are not permitted in Council Chambers or workshop facilities.**

**10. We should all take initiative to make things better. Our goal is to foster an environment, which encourages a fair discussion and exchange of ideas without fear of personal attacks.**

# FISCAL YEAR 2026
# Employee of the 2nd Quarter

## Linda Garcia

Senior Administrative Assistant

Sanibel Police Department



# AGENDA MEMORANDUM

**City Council Meeting Date: April 21, 2026**

**To:** City Council

**From:** John Agnew, City Attorney

**Date:** April 13, 2026

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**SUBJECT:** Direction and recommended hearing procedures for the appeal of Planning Commission Resolution No. 26-10.

**BACKGROUND:**

At the April 21, 2026 City Council meeting, the City Council is scheduled to hear an appeal of the Planning Commission's approval of a revision to Subdivision Plat Application No. SPLT-2022-000074. The application, filed by Brian Smith, Ensite, Inc., on behalf of Buckingham 225 Development, Inc. (the "Appellee"), seeks approval to allow revision of an approved preliminary plat, to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" subdivision. The Planning Commission approved the application by a 7-0 vote. Gayle Denniger, a participant in the Planning Commission hearing below, timely filed his appeal through attorney Ralf Brookes, a copy of which is included in your agenda package. The purpose of this memorandum is to provide direction relevant to the appeal process, as well as a recommended procedure for the appeal hearing.

**STANDARD OF REVIEW:**

Section 82-98(d) of the Land Development Code sets forth the standard of review for the City Council in this type of appeal and provides as follows:

> The City Council's consideration on appeal shall be limited to whether the Planning Commission has properly interpreted and applied the provisions of this Land Development Code, based upon the application and evidence presented to the Planning Commission.

Thus, the City Council's appellate review of a Planning Commission decision is not a new hearing, in the sense that the City Council will not take new testimony or evidence regarding the application. Rather, the City Council will base its decision on the appellate record (the record established before the Planning Commission) and arguments of the parties to the

appeal regarding that appellate record. The City Council is not prohibited from independently weighing, interpreting, and applying that record evidence as it sees fit, without deference to the Planning Commission's weight, interpretation, and application of the evidence; however, only "competent, substantial evidence" should be relied upon in making a decision. Competent, substantial evidence is evidence that is sufficiently relevant and material that a reasonable mind would accept it as adequate to support the conclusion reached. In summary, the City Council is charged with determining whether the Planning Commission has properly interpreted and applied the provisions of the Land Development Code based upon the application submitted and the competent, substantial evidence presented to the Planning Commission.

**HEARING PROCEDURE:**

In terms of the appellate procedure at the City Council meeting, I recommend the following:

1. Since no new witnesses or new evidence can be entered into the record, there is no need for an oath to be administered to anyone, nor is it necessary or appropriate for speaker introductions for the respective parties to state information beyond their name and who they represent.

2. Each Councilmember will make *ex parte* disclosures, if any, in accordance with City Council Resolution 23-012 (attached).

3. I will provide an overview of this memo, so that all participants in the proceeding and those listening are informed on the record of the procedure.

4. Regarding appellate arguments, the Appellant will proceed first and present his appellate arguments.

5. Next, planning staff will have an opportunity to make an argument to the City Council in support of the Planning Commission approving the application, followed by the Appellee.

6. Thereafter, the Appellant will be provided an opportunity to briefly summarize his position and make any rebuttal arguments.

7. City staff and the Appellee then will be provided an opportunity to briefly respond to the rebuttal.

8. The City Council will then deliberate and consider the arguments that have been made by the parties, the original application and the record established by the Planning Commission, and the City Council will render its decision on the appeal. No party will be permitted to make further argument to the City Council unless it is in response to a question asked by a City Council member.

I suggest that the City Council establish maximum speaking times for each party, with the Appellant being allotted a total of 30 minutes, and City Staff and the Appellee being allotted a combined total of 30 minutes to be allocated between them how they see fit. Thus, the order of speakers would be as follows:

1. Appellant argument
2. Staff argument
3. Appellee argument
4. *Summary/rebuttal by Appellant
5. *Staff summary/response to rebuttal
6. *Appellee response to rebuttal

*Time allotments for 4, 5, and 6 above are only to the extent, if any, that some of the 30 minutes allotted per side has not been fully used.

If the Councilmembers question the parties during their arguments and significant time is spent answering those questions, the City Council should use its discretion in determining how much additional time, if any, will be provided to a party. Alternatively, City Council could elect to hold questions until the conclusion of all arguments.

**FINAL DECISION:**

Regarding the City Council's final decision on the appeal, Section 82-98(e) of the Land Development Code provides as follows:

> On any appeal, the City Council shall have authority to uphold, reverse or modify the Planning Commission's decision; or to remand the application to the Planning Commission for re-hearing, a new hearing, or for the consideration of additional evidence. In reversing or modifying the decision of the Planning Commission and approving an application, the City Council shall have the same authority as the Planning Commission to place conditions on such approval.

At the conclusion of the hearing, a motion will be in order to approve one of these options—upholding, reversing, modifying, or remanding. Because the decision of Council is limited to what is already in the record, the typical opportunity for public comment received between a motion and vote would not be proper in this instance. Once a deciding motion carries, the decision of City Council will be memorialized by Resolution passed at either the current meeting or a subsequent meeting.

If you have any questions on these considerations or proposed procedures, I am available to discuss at your convenience.

**CITY OF SANIBEL**
**RESOLUTION 23-012**

**RESOLUTION 23-012 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, RELATED TO QUASI-JUDICIAL PROCEEDINGS ON LOCAL LAND USE MATTERS; FORMALIZING A METHOD TO REMOVE THE PRESUMPTION OF PREJUDICE FROM EX PARTE COMMUNICATIONS; AND PROVIDING AN EFFECTIVE DATE**

**WHEREAS**, the City Council of the City of Sanibel, the Sanibel Planning Commission, and certain of the City's other boards and commissions have the authority to conduct quasi-judicial proceedings on local land use matters; and

**WHEREAS**, ex parte communications (i.e., communications involving board members about a matter coming before the board which occur outside the noticed public hearing on the matter) are highly discouraged, because the quasi-judicial decision before the board should be based solely upon evidence in the record, known to all interested parties; and

**WHEREAS**, ex parte communications create a presumption of prejudice to the quasi-judicial proceeding; however, Section 286.0115, Florida Statutes, provides an avenue to formalize a method to remove the presumption of prejudice from ex parte communications related to local land use matters; and

**WHEREAS**, the City Council desires to formalize such method, consistent with its current, informal practices.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Consistent with Section 286.0115, Florida Statutes, the following procedures are hereby adopted for all quasi-judicial proceedings on local land use matters:

1. The substance of any ex parte communication with a local public official which relates to quasi-judicial action pending before the official is not presumed prejudicial to the action if the subject of the communication and the identity of the person, group, or entity with whom the communication took place is disclosed and made a part of the record before final action on the matter.
2. A local public official may read a written communication from any person. However, a written communication that relates to quasi-judicial action pending before a local public official shall not be presumed prejudicial to the action, and such written communication shall be made a part of the record before final action on the matter.

3. Local public officials may conduct investigations and site visits and may receive expert opinions regarding quasi-judicial action pending before them. Such activities shall not be presumed prejudicial to the action if the existence of the investigation, site visit, or expert opinion is made a part of the record before final action on the matter.

4. Disclosure made pursuant to subparagraphs 1., 2., and 3. must be made before or during the public meeting at which a vote is taken on such matters, so that persons who have opinions contrary to those expressed in the ex parte communication are given a reasonable opportunity to refute or respond to the communication. This subsection does not subject local public officials to Part III of Chapter 112, Florida Statutes, for not complying with this paragraph.

**SECTION 3.** This Resolution shall be effective immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 7TH DAY OF FEBRUARY 2023.**

Attest:

Scotty Lynn Kelly, City Clerk

Holly D. Smith, Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: February 7, 2023

Vote of Council Members:

| | |
|---|---|
| Smith | Yea |
| Johnson | Yea |
| Crater | Yea |
| Henshaw | Yea |
| Miller | Yea |

CITY OF SANIBEL

REPORT OF EX-PARTE COMMUNICATION,
SITE VISIT, INVESTIGATION OR EXPERT OPINIONS

This form is to be filled out, signed and delivered to the recording secretary of the Council, board, commission or committee for disclosure on the record at the quasi-judicial hearing to which it applies.

Date of Communication: _____

Person or Group: _____

Quasi-judicial Action: _____

Type of Communication: Oral _____ Written _____ Site Visit _____

Investigation _____ Expert Opinion _____

Substance of communication (If written, attach copy; otherwise describe):

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Signature of Public Official: _____

Date: _____

Note: The completed form should be attached to the meeting minutes and filed in the record file.

**CITY OF SANIBEL**
**RESOLUTION 26-016**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, [UPHOLDING/REVERSING/MODIFYING/REMANDING] THE PLANNING COMMISSION'S DECISION DETAILED IN SANIBEL PLANNING COMMISSION RESOLUTION 26-10, REGARDING PERMIT SUBDIVISION PLAT APPLICATION NO. SPLT-2022-000074 DATED MARCH 24, 2026, TO ALLOW REVISION OF AN APPROVED PRELIMINARY PLAT, TO AMEND ALLOCATED IMPERMEABLE COVERAGE FOR LOTS 1 THROUGH 6 AT A UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) DEVELOPMENT KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), LOCATED AT 5325 AND 5301 SANIBEL CAPTIVA ROAD, PARCEL NOS. 13-46-21-T2-00002.4000 AND 13-46-21-T2-00002.2000, RESPECTIVELY; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** on March 24, 2026, the Sanibel Planning Commission conducted a quasi-judicial hearing for consideration of Permit Application No. (the "Application"); and

**WHEREAS,** the Application, filed by Brian Smith, Ensite, Inc., who was authorized by Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner (the "Applicant"), to act as applicant and file the petition to seek approval to allow revision of an approved preliminary plat, to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" subdivision; and

**WHEREAS,** Land Development Code Sections 82-2421(1) and 82-422 detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 provides for requirements and procedures for preliminary plats; and

**WHEREAS,** at the conclusion of its March 24, 2026, hearing, the Planning Commission, by a 7-0 vote, closed the public hearing, approved the Application via Planning Commission Resolution 26-10 (attached hereto as Exhibit A), with authorization for the Chair to execute the Resolution; and

**WHEREAS,** a Notice of Appeal of Planning Commission Resolution 26-10 was timely filed on April 8, 2026, by Gayle Dendinger (the "Appellant"), opposing the approval of the Application with the 24 conditions, as approved; and

**WHEREAS,** pursuant to Land Development Code Section 82-98(d), the City Council's consideration on appeal is limited to whether the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Application and evidence presented to the Planning Commission; and

**WHEREAS,** the City Council conducted a duly noticed hearing on appeal on April 21, 2026, for which the City Council reviewed and considered the record before the Planning Commission, the approved Planning Commission Resolution 26-10, minutes of the Planning Commission, and the written and oral arguments presented by or on behalf of the Appellant, the Applicant, and Planning Staff.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OFSANIBEL, FLORIDA:**

**SECTION 1.** The above "whereas" recitals are hereby found correct and are incorporated herein as part of this Resolution.

**SECTION 2.** The City Council makes the following findings:

(a) The Appellant has standing to appeal and did timely file his appeal to City

Council; and

(b) The Appellant, the Applicant, and City planning staff had notice and opportunity to be heard in the appeal; and

(c) No objections were raised to form or procedure of the appeal; and

(d) The Planning Commission **DID/DID NOT** properly interpret and apply the applicable provisions of the Land Development Code.

**SECTION 3.** The Planning Commission's approval of the Applications is hereby **[UPHELD/REVERSED/MODIFIED/REMANDED]**.

**SECTION 4.** This resolution shall take effect immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 21ST DAY OF APRIL 2026.**

Attest:

_____ _____

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

_____

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

DeBruce _____
Henshaw _____
Johnson _____
Miller _____
Smith _____

Sec. 82-98. - Appeals.

(a) The following persons shall have the right to appeal a final decision of the planning commission adverse to their interests:

(1) The applicant.

(2) The owner of the property proposed for development.

(3) The developer of the property proposed for development.

(4) Any other person residing upon, or owning property within the city, or owning or operating a business within the city, who participated by written comment before or at the planning commission hearing or who participated in person or through an authorized agent at the planning commission hearing.

(b) The appeal shall be filed within 15 days after the date that the planning commission decision was filed. The appeal shall be filed with the city manager, and the filing fee shall be paid as a prerequisite to filing.

(c) The city manager shall schedule the appeal on the agenda of a city council meeting occurring within 30 days after the appeal has been filed, unless this time limit is waived by the applicant, and the appellant. The city council, in its discretion, may continue or reschedule the hearing until such later date as is reasonable under the circumstances.

(d) The city council's consideration on appeal shall be limited to whether the planning commission has properly interpreted and applied the provisions of this Land Development Code, based upon the application and evidence presented to the planning commission.

(e) On any appeal, the city council shall have authority to uphold, reverse or modify the planning commission's decision; or to remand the application to the planning commission for rehearing, a new hearing, or for the consideration of additional evidence. In reversing or modifying the decision of the planning commission and approving an application, the city council shall have the same authority as the planning commission to place conditions on such approval.

(f) In the case of an appeal of a planning commission decision approving an application with conditions unacceptable to the applicant, the city council's authority to review the decision of the planning commission extends to the entire application, not just to the condition unacceptable to the applicant.

(g) If, in considering an appeal, any claim is made that the action taken by the planning commission is or would be in violation of a vested right, is prohibited due to an estoppel, constitutes a taking or is otherwise unlawful, and evidence has not been presented on the subject at the planning commission hearing, the city council may conduct an evidentiary hearing on that claim or may remand the application to the planning commission for an evidentiary hearing on that claim.

(Ord. No. 85-26, § 1(III.A.3), 11-27-1985; Ord. No. 92-14, § 2, 9-1-1992; Ord. No. 97-17, § 1, 11-4-1997)

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-10**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RELATING TO PERMIT APPLICATION NO. SPLT-2022-000074 FILED PURSUANT TO SECTIONS 82-421(1), 82-422, AND 114-106 OF THE LAND DEVELOPMENT CODE FOR REVISION OF AN APPROVED PRELIMINARY PLAT, TO AMEND ALLOCATED IMPERMEABLE COVERAGE FOR LOTS 1 THROUGH 6 AT A UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) DEVELOPMENT KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5325 AND 5301 SANIBEL CAPTIVA ROAD, PARCEL NOS. 13-46-21-T2-00002.4000 AND 13-46-21-T2-00002.2000, RESPECTIVELY, MORE FULLY DESCRIBED HEREIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** Sections 82-421 and 82-422 of the Land Development Code detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 of the Land Development Code provides for requirements and procedures for preliminary plats; and

**WHEREAS,** Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner of the property located at 5325 and 5301 Sanibel Captiva Road has authorized Brain Smith, Ensite, Inc., to submit Subdivision Plat Application No. SPLT-2022-000074 to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" Subdivision; and

**WHEREAS**, the application seeks to amend the preliminary plat of the Coastal Creek Subdivision, previously approved by the Planning Commission Resolution 23-24, so that the preliminary plat accurately reflects the maximum allowable impermeable coverage on lots 1 through 6 within the subdivision; and

**WHEREAS,** a duly noticed public hearing of the subject applications, seeking revision of the previously-approved preliminarily plat, was held before the Planning Commission on March 24, 2026; and

**WHEREAS,** after providing the applicant, staff, and the public an opportunity to present testimony and evidence, and having reviewed the record, and all applicable sections of the Land Development Code, the Planning Commission finds that the criteria for granting the application have been / have not been met and that the application should therefore be approved/denied.

**NOW, THEREFORE, BE IT RESOLVED, THE PLANNING COMMISSION OF THE CITY OF SANIBEL** finds that Subdivision Plat Application No. SPLT-2022-000074 to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" Subdivision, on property owned by Buckingham 225 Development, Inc. (Daniel W. Dodrill), and located at 5325 and 5301 Sanibel Captiva Road, and more fully identified as Parcel Nos. 13-46-21-T2-00002.4000 and 13-46-21-T2-00002.2000, respectively, is hereby approved.

Any approval of this Permit Application is pursuant to the application and attachments included with these items, and subject to the following condition(s) contained in the March 24, 2026, staff report:

All 24 conditions of the preliminary plat approval found in Planning Commission Resolution 23-24 (attached hereto as Exhibit A) and upheld by City Council Resolution 23-049 (attached hereto as

Exhibit B) remain in full force and effect, with the exception that the originally approved preliminary plat is hereby replaced with the amended preliminary plat (attached hereto as Exhibit C).

**EXPIRATION OF PLANNING COMMISSION ACTION;** In accordance with Land Development Code Section 82-424(f), when a development order is approved with conditions imposed thereon, such conditions shall be satisfied within the time limit specified in the development order issued by the Planning Commission. When such conditions specify requirements to be completed before a development permit is issued, and no particular time limit is specified for satisfaction of the conditions, such conditions must be satisfied within six months after issuance of the development order. Failure to satisfy a condition imposed upon the approval of a development permit, within the time limit specified therefor, or such extended time period as the Planning Commission may approve upon timely application of the permittee, shall cause the development order approving the development permit to be null and void and of no further force or effect.

**EFFECTIVE DATE OF PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-97, all actions of the Planning Commission, including those which constitute final decisions, shall be effective upon the date of filing of the adopted Resolution with the City Manager, or at a later date if provided in the Resolution. However, permits authorized by final decisions shall not be issued until one of the following has occurred: 1) The time for filing an appeal to City Council has elapsed; 2) The applicant and all other persons having appeal rights have filed a written waiver of appeal rights; 3) If an appeal has been timely filed, the City Council has finally disposed of the matter.

**RIGHT TO APPEAL PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-98. Appeals. The applicant is hereby advised that the following persons have the right to appeal a final decision of the Planning Commission adverse to their interests: 1) The applicant; 2) The owner of the property proposed for development; 3) The developer of the property proposed for development; and 4) Any other person residing upon, or owning property within the City, or owning or operating a business within the City, who participated by written comment before or at the Planning Commission hearing or who participated in person or through an authorized agent at the Planning Commission hearing. The appeal shall be filed within 15 days after the date that the Planning Commission decision was filed. The appeal shall be filed with the City manager, and the filing fee shall be paid as a prerequisite to filing.

**DISCLAIMER & PERMIT CONDITION (APPLICABLE ONLY IF FEDERAL OR STATE PERMITS ARE REQUIRED):** Issuance of a development permit by the City does not create any right to obtain a permit from a State or Federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a State or Federal agency or undertakes actions that result in a violation of State or Federal law. If applicable, all other State or Federal permits must be obtained before commencement of the project.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Aye |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

## EXHIBIT A OF RESOLUTION

**Agenda Item 7.b.**
**Meeting of July 25, 2023**

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 23-24**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL; RELATING TO A DEVELOPMENT PERMIT (APPLICATION NO. SPLT-2022-000074 AND DP-2021-001803) FILED PURSUANT TO SECTIONS 82-421(1), 82-422, AND 114-106 OF THE LAND DEVELOPMENT CODE FOR PRELIMINARY PLAT, TO ALLOW A UNIFIED RESIDENTAIL HOUSING (CLUSTER HOUSING) DEVELOPMENT INCLUDING SIX PARCELS FOR SINGLE-FAMILY RESIDENTIAL USE AND ASSOCIATED IMPROVEMENTS, KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5301-5326 SANIBEL CAPTIVA ROAD, PARCEL NO. 13-46-21-T2-00002.2000 AND 13-46-21-T2-00002-4000, MORE FULLY DESCRIBED HEREIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** Sections 82-421(1) and 82-422 of the Land Development Code detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 of the Land Development Code provides for requirements and procedures for preliminary plats; and

**WHEREAS,** Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner of the property located at 5301-5326 Sanibel Captiva Road, has authorized Brian Smith, Ensite, Inc., to submit Development Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 (the "subject applications") to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision; and

**WHEREAS,** the subject applications were initially approved by Sanibel Planning Commission Resolution 23-001; however, a timely appeal of Planning Commission Resolution 23-001 was filed pursuant to Land Development Code Section 82-98 – Appeals; and City Council, after consideration of the appeal, remanded the subject applications back to Planning Commission for a new hearing by Sanibel City Council Resolution 23-024; and

**WHEREAS,** the applicant has reiterated its requests for approval of the subject applications; and

**WHEREAS,** a duly noticed public hearing of the subject applications was held before the Planning Commission on July 25, 2023; and

**WHEREAS,** after providing the applicant, staff, and the public an opportunity to present testimony and evidence, and having reviewed the record, and all applicable sections of the Land Development Code including Section 86-40(b), the Planning Commission finds that the criteria for granting the applications have been met and that the application should therefore be approved.

**NOW, THEREFORE, BE IT RESOLVED, THE PLANNING COMMISSION OF THE CITY OF SANIBEL** finds that Development Permit Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision on property owned by Buckingham 225 Development, Inc. (Daniel W. Dodrill), and located at 5301-5326 Sanibel Captiva Road, and more fully identified as Tax Parcel No. 13-46-21-T2-00002.2000 and 13-46-21-T2-00002.4000, is approved.

Any approval of this Development Permit Application is pursuant to the application and attachments included with these items, and subject to the following condition(s) contained in the July 25, 2023, staff report:

1. A copy of the approved preliminary plat is attached to this resolution as Exhibit "A". Preliminary plat approval shall be effective and valid for a period of three years. The planning commission may, however, extend this effective period for an additional two years, provided that, at the time such extension is granted, the preliminary plat continues in compliance with all requirements of this Land Development Code and the Sanibel Plan. If all requirements for approval of a final subdivision plat, and the recording of such plat, are not completed within the time period for which preliminary approval is valid and effective, such preliminary approval and all rights conferred thereby shall be terminated and expire.
2. Preliminary plat approval may be extended by city council for an additional period of time beyond the three-year effective time period and the two-year extension that may be approved by the planning commission due to the necessity of achieving compliance with federal, state or local regulations pertaining to endangered or protected species and respective habitat or due to other unforeseen environmental conditions.
3. The applicant shall submit for final approval, a final subdivision plat in accordance with the requirements of *Land Development Code Section 114-89 -- Final plat review and approval.*
4. A copy of the approved Coastal Creek Site Development Plans is attached to this resolution as Exhibit "B".
5. All future land use and development shall comply with Exhibit "A" and "B", and all associated requirements of the Land Development Code including, but not limited to:
    a. Single-family residential and associated accessory uses
    b. Lot sizes
    c. Setbacks
    d. Limitations on vegetation removal and developed area
    e. Limitation on coverage with impermeable surfaces
    f. Minimum distance between buildings
    g. Environmental performance standards
6. The applicant shall execute, and record in the public records of Lee County, a declaration that the residential density allocation for the property has been fully utilized. If the development is to be phased and only a portion of the residential density allocated to the property is to be utilized, then the declaration shall reflect that portion so utilized. The declaration shall be prepared, executed and recorded in accordance with the formalities required under state law for the conveyance of real property, for which the developer shall be responsible. Completion permits shall not be issued for any dwelling units in the development and the subdivision shall not be final until such time as the developer shows compliance with this section.
7. The applicant shall establish a legal entity (a property owner's association) with responsibility for complying with the requirements of this development permit and maintaining the private road, drainage system, utilities, landscape buffers, and wetland preservation. Restrictive covenants for the subdivision are to include the following provisions:
    a. A provision that requires compliance with the conditions of development permit DP-2021-1803;
    b. A provision that prohibits any dwelling unit in the subdivision from use as resort housing;
    c. A provision requiring the Association to maintain the private street, stormwater management system, utilities, landscape buffers, and wetland preservation as conditions of approval for the preliminary plat and construction plans. The Association shall have the authority to make assessments and enforce liens to

cover the costs and assessments;

d. A provision giving the City of Sanibel the right to enforce the Associations obligations to maintain the private street, the stormwater management system, utilities, landscape buffers, and wetland preservation required as conditions of approval for the preliminary plat and construction plans;

e. A provision authorizing the City of Sanibel to make repairs and perform maintenance on required facilities, if not done by the Association, and giving the City the right to make assessments and enforce liens for costs of repairs and maintenance;

f. A provision providing a notice to lot purchasers that the street within the subdivision is not a public street, is to be maintained by the owners at their expense and is intended to remain a private street in perpetuity;

g. A provision that specifies as to each lot how many dwelling units are permitted thereon, including the amount of developed area and coverage assigned to each single-family lot;

h. A provision requiring the applicant to provide each property purchase/owner with information about the common open space and preservation areas, including Tracts B, C, D-1, and D-2; and

i. A provision in the amendment section of the documents prohibiting amendments to the preceding provisions without the written jointer or consent of the City of Sanibel.

8. Preliminary plat approval shall not relieve the applicant from the requirement of obtaining permits from and complying with lawful requirements imposed by the Florida Department of Environmental Protection, South Florida Water Management District, and any other applicable local, State and Federal law.
9. The applicant shall install all monuments as required by Chapter 177, Florida Statutes, and construct all streets, street signs, drainage facilities, sewage treatment facilities, and other improvements as are necessary to bring the proposed subdivision in full compliance with the following requirements of the Land Development Code:
    a. All streets and other improvements in proposed subdivisions shall be constructed in accordance with all specifications as provided in this chapter and as may be adopted by the city council by resolution as "Subdivision Improvement Construction Requirements;"
    b. All necessary street signs shall be installed by the applicant in accordance with the prevailing scheme of identifying public and private streets in the city; and
    c. All necessary drainage facilities shall be constructed as required and approved by the city manager so as to meet the minimum requirements of this Land Development Code and as to accomplish the intent and purpose of this Land Development Code.
10. The applicant shall obtain formal approval of the proposed subdivision and street names from the City in accordance with Ordinance No. 86-27 and City Council Resolution No. 86-67 prior to final plat approval.
11. The applicant may not begin construction of required improvement until construction plans are approved by the City Manager and a construction bond with good and sufficient surety, an irrevocable letter of credit, or equivalent security is provided to the City in an amount equal to the cost of all required improvements, and in a form approved by the City Attorney, conditioned upon satisfactory completion of required improvements in accordance with he approved construction plans during the effective period of the preliminary plat approval.
12. No facility installed underground may be covered over until the facility has been inspected by the City Manager. Other periodic inspections may be required. Construction of required improvements shall not be complete unless and until all the improvements have been finally inspected and approved by the City Manager.
13. Prior to the commencement of development activity, the applicant shall obtain a

vegetation permit to approve revisions of the vegetation plan.

14. A native vegetation buffer shall be installed along the north property line, pursuant to LDC Chapter 122, Article II, Division 3 – Residential Development Along Arterial and Collector Roads.
15. The proposed native plant buffer along the western boundary shall be permitted to mature to the natural height and growth pattern of the plants and maintained in perpetuity to prevent encroachment into the adjacent city-owned preserve.
16. Pursuant to Sec. 122-169(3) and Sec. 122-191, all City-listed and Florida Invasive Species Council (formerly FLEPPC) listed plant species shall be removed from the site and maintained free in perpetuity.
17. The applicant shall submit a copy of the SFWMD preserve management plan annual monitoring reports to the City.
18. The trimming of mangroves or other vegetation within Tract C and Tract D-2 is strictly prohibited, except to access utilities. The Coastal Creek subdivision does not abut the Heron's Landing Lake; property owners do not have riparian rights and are not entitled to a view of the waterbody.
19. All landscaping within the Coastal Creek subdivision shall be 100% native except the six platted lots which are required to be at least 75% native; the use of sod is prohibited.
20. The use of fertilizer containing nitrogen and phosphorus is prohibited within the Coastal Creek subdivision.
21. All new vegetation within stormwater retention areas, including lands between designated home sites, shall comply with Sec. 118-286 – Planting. A revised vegetation plan shall be submitted detailing the native plants installed to vegetate the common area tracts to ensure compliance with this condition.
22. All soil excavated from the site shall be disposed of properly at an off-island location.
23. The applicant shall comply with all provisions of Chapter 86 – Site Preparation, including but not limited to:
    a. Development activities shall be designed to minimize the amount of fill used in preparation of the site. Soil and other materials shall not be temporarily nor permanently stored in locations which would result in the unnecessary destruction of vegetation. Excess soil, or other material, including dredged spoil, to be disposed of off-site, shall be deposited at specified locations in a manner causing minimal environmental damage.
    b. Erosion and sediment control measures shall be coordinated with the sequence of grading, development, and construction operations; and shall be maintained for the duration of construction until final landscaping has been installed.
    c. Removal of vegetation shall be limited to the minimum necessary to carry out development activity, except as required by other provisions of the Land Development Code. The removal of vegetation, by any means other than the use of hand-held tools, shall not occur prior to issuance of a development permit.
    d. Permanent vegetation shall be installed on the construction site as soon as utilities are in place and final grades are completed. This permanent vegetation must be cared for and maintained in a healthy condition.
    e. All on-site facilities shall be properly maintained by the owner so that they do not become nuisances. Nuisance conditions shall include but not be limited to:
        1. Improper storage resulting in uncontrolled runoff and overflow;
        2. Stagnant water with concomitant algae growth, insect breeding and odors;
        3. Discarded debris;
        4. Unnecessary noise; and
        5. Safety hazards created by the facility's operations.
    f. The design, location and construction and the maintenance of all development shall be in a manner that minimizes environmental damage. The developer shall completely restore any environmentally sensitive area or wetland area damaged

during construction. Complete restoration means that the damaged area shall, within two years, be operating as effectively as the natural system did before being destroyed or altered. In designing the site for its ultimate end use, the site shall be graded in such a manner, and development and use shall take place in such a manner, so that there are no point discharges into coastal waters resulting from stormwater runoff and/or from wastewater effluent.

24. Planning Commission recommends that "Tract C", as shown and described by Exhibit "A", approved as conservation use for the protection of wetlands, is designated for inclusion within the Environmentally Sensitive Lands Conservation District and map upon City Council consideration of an amendment to the Sanibel Plan.

**EXPIRATION OF PLANNING COMMISSION ACTION;** In accordance with Land Development Code Section 82-424(f), when a development order is approved with conditions imposed thereon, such conditions shall be satisfied within the time limit specified in the development order issued by the Planning Commission. When such conditions specify requirements to be completed before a development permit is issued, and no particular time limit is specified for satisfaction of the conditions, such conditions must be satisfied within six months after issuance of the development order. Failure to satisfy a condition imposed upon the approval of a development permit, within the time limit specified therefor, or such extended time period as the Planning Commission may approve upon timely application of the permittee, shall cause the development order approving the development permit to be null and void and of no further force or effect.

**EFFECTIVE DATE OF PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-97, all actions of the Planning Commission, including those which constitute final decisions, shall be effective upon the date of filing of the adopted Resolution with the City Manager, or at a later date if provided in the Resolution. However, permits authorized by final decisions shall not be issued until one of the following has occurred: 1) The time for filing an appeal to City Council has elapsed; 2) The applicant and all other persons having appeal rights have filed a written waiver of appeal rights; 3) If an appeal has been timely filed, the City Council has finally disposed of the matter.

**RIGHT TO APPEAL PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-98. Appeals. The applicant is hereby advised that the following persons have the right to appeal a final decision of the Planning Commission adverse to their interests: 1) The applicant; 2) The owner of the property proposed for development; 3) The developer of the property proposed for development; and 4) Any other person residing upon, or owning property within the City, or owning or operating a business within the City, who participated by written comment before or at the Planning Commission hearing or who participated in person or through an authorized agent at the Planning Commission hearing. The appeal shall be filed within 15 days after the date that the Planning Commission decision was filed. The appeal shall be filed with the City manager, and the filing fee shall be paid as a prerequisite to filing.

**DISCLAIMER & PERMIT CONDITION (APPLICABLE ONLY IF FEDERAL OR STATE PERMITS ARE REQUIRED):** Issuance of a development permit by the City does not create any right to obtain a permit from a State or Federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a State or Federal agency or undertakes actions that result in a violation of State or Federal law. If applicable, all other State or Federal permits must be obtained before commencement of the project.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 25TH DAY OF JULY 2023.**

Attest:

Scott Lyon Kelly, City Clerk
Anna M. Hicks, Clerk

Roger Grogman, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: 7/25/23

Vote of Commission Members:

| | |
|---|---|
| Grogman | Aye |
| Pfeifer | Aye |
| DeBruce | Excused |
| Colter | Aye |
| Nichols | Aye |
| Welch | Excused |
| Symroski | Nay |

## EXHIBIT B OF RESOLUTION

**Agenda Item 17**
**Meeting of 10/3/23**

**CITY OF SANIBEL**
**RESOLUTION 23-049**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, UPHOLDING IN ALL RESPECTS THE PLANNING COMMISSION'S DECISION DETAILED IN SANIBEL PLANNING COMMISSION RESOLUTION 23-024 EXCEPT TO MODIFY CONDITION 22, REGARDING DEVELOPMENT PERMIT APPLICATION NO. DP-2021-001803 AND MAJOR SUBDIVISION APPLICATION NO. SPLT 2022-000074 DATED JULY 25, 2023, FOR THE PROJECT KNOWN AS COASTAL CREEK SUBDIVISION AND LOCATED AT 5301-5325 SANIBEL CAPTIVA ROAD; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, on July 25, 2023, the Sanibel Planning Commission conducted a quasi-judicial hearing for consideration of Development Permit Application No. DP-2021-001803 and Major Subdivision Application No. SPLT 2022-00007 (the "Applications"); and

**WHEREAS,** the Applications, filed by Brian Smith with Ensite, Inc. on behalf of owner Buckingham 225 Development, Inc. (the "Applicant"), seek approval to allow for a unified residential housing (cluster housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision, located at 5301-5325 Sanibel Captiva Road, Sanibel; and

**WHEREAS**, Land Development Code Sections 82-421(8) and 82-422 detail the application and notice requirements for development permit consideration by the Planning Commission; and Land Development Code Section 114-106 provides the requirements and procedures for preliminary plats; and

**WHEREAS**, at the conclusion of its July 25, 2023 hearing, the Planning Commission, by a 4-1 vote, approved the Applications together with 24 conditions; and

**WHEREAS**, a Notice of Appeal of Planning Commission Resolution 23-024 was timely filed on August 8, 2023, by Ralph Brookes, Esq., on behalf of the Heron's Landing Homeowners Association of Sanibel, Inc. and six Sanibel residents (the "Appellants"), opposing the approval of the applications with the 24 conditions, as approved; and

**WHEREAS**, pursuant to Land Development Code Section 82-98(d), the City Council's consideration on appeal is limited to whether the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

**WHEREAS**, on appeal, the Appellants argue, among other things, that the Coastal Creek site should have certain additional testing and site remediation performed before the site is developed, as approved; and

**WHEREAS**, the City Council conducted a duly noticed hearing on appeal on September 11, 2023, for which the City Council reviewed and considered the record before the Planning Commission, Planning Commission Resolution 23-024, minutes of the Planning Commission, and the written and oral arguments presented by or on behalf of the Appellants, the Applicant, and Planning Staff; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The above "whereas" recitals are hereby found to be correct and are incorporated herein as part of this Resolution.

**SECTION 2.** The City Council makes the following findings:

(a) The Appellants have standing to appeal and timely filed their appeal to City Council; and

(b) All parties had notice and opportunity to be heard in the appeal; and

(c) No objections were raised to form or procedure of the appeal; and

(d) In approving the Applications, the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

(e) Condition 22 of Planning Commission Resolution 23-024 should be modified to clarify the definition of "excavated soil."

**SECTION 3.** Planning Commission Resolution 23-024 is hereby **UPHELD** in all respects, except Condition 22 is **MODIFIED** to read as follows:

> 22. All excavated soil from the site shall be disposed of properly at an off-island location. For this project, "excavated soil" shall include all soil dug up or scraped from predevelopment grade, other than *de minimus* removal of soil for the planting of vegetation or other, similar minor soil disturbances.

**SECTION 4.** This resolution shall take effect immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 3RD DAY OF OCTOBER 2023.**

Attest:

Scotty Lynn Kelly, CMC
Scotty Lynn Kelly, City Clerk

Richard Johnson
Richard Johnson, Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: October 3, 2023

Vote of Council Members:

| | |
|---|---|
| Johnson | Aye |
| Miller | Aye |
| Crater | Nay |
| Henshaw | Aye |
| Smith | Aye |

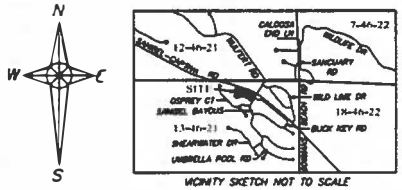
THIS INSTRUMENT PREPARED BY
HARRIS JORGENSEN, LLC
PHILLIP M. MCNULTY LS6915
CERTIFICATE OF AUTHORIZATION No. 6921
3046 DEL PRADO BLVD. S. SUITE 100
CAPE CORAL, FLORIDA 33904
(239) 257-2626

INSTRUMENT NUMBER:

SHEET 1 OF 2

# COASTAL CREEK

*A SUBDIVISION LYING IN*
*SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,*
*CITY OF SANIBEL, LEE COUNTY, FLORIDA*



VICINITY SKETCH NOT TO SCALE

## DEDICATION:

KNOW ALL MEN BY THESE PRESENTS THAT (GENERIC) ZOS DEVELOPMENT, INC. HAVE CAUSED THIS PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, TO BE MADE AND DOES HEREBY MAKE THE FOLLOWING DEDICATION:

A. TO THE COASTAL CREEK PROPERTY OWNERS ASSOCIATION, INC.:

1. TRACT "A" AS DEPICTED ON THE PLAT IS DEDICATED FOR PRIVATE ROADWAY ACCESS EASEMENT (A.E.), DRAINAGE (D.E.), AND UTILITY PURPOSES (P.U.E.) WITH MAINTENANCE RESPONSIBILITIES.

2. ALL DRAINAGE EASEMENTS (D.E.) AS DEPICTED ON THE PLAT, WITH MAINTENANCE RESPONSIBILITIES.

3. NON-EXCLUSIVE USE OF A SIX (6') FOOT PUBLIC UTILITY EASEMENT (P.U.E.) ADJACENT TO TRACT "A" AS SHOWN ON THE PLAT, FOR THE PURPOSE OF PLACEMENT OF UTILITIES AND MAINTENANCE THEREOF.

B. TRACT "B" AS DEPICTED ON THE PLAT IS DEDICATED FOR LANDSCAPE BUFFER WITH MAINTENANCE RESPONSIBILITIES.

C. TRACT "C" AS DEPICTED ON THE PLAT IS DEDICATED AS WETLAND WITH MAINTENANCE RESPONSIBILITIES.

D. TRACTS "D-1" AND "D-2" AS DEPICTED ON THE PLAT IS DEDICATED AS DRAINAGE AND OPEN SPACE WITH MAINTENANCE RESPONSIBILITIES.

E. TO PUBLIC AND PRIVATE UTILITY COMPANIES

THE EASEMENTS DESCRIBED BELOW ARE HEREBY DEDICATED TO PUBLIC AND PRIVATE UTILITY COMPANIES, INCLUDING, BUT NOT LIMITED TO, LEE COUNTY ELECTRIC CO-OP, INTERNET, CABLE T.V., AND PHONE SERVICES, FOR THE PURPOSE OF CONSTRUCTION, INSTALLATION, MAINTENANCE AND OPERATION OF THEIR FACILITIES, INCLUDING, BUT NOT LIMITED TO PROVIDING CABLE TELEVISION SERVICES, TELEPHONE, DATA, ELECTRIC OR OTHER PUBLIC AND PRIVATE UTILITY SERVICES. PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF ANOTHER PUBLIC OR PRIVATE UTILITY. IN THE EVENT ANYONE DAMAGES THE FACILITIES OF A PUBLIC OR PRIVATE UTILITY, THE PARTY CAUSING THE DAMAGE WILL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

1. NON-EXCLUSIVE USE OF A SIX (6') FOOT PUBLIC UTILITY EASEMENT (P.U.E.) ADJACENT TO TRACT "A" AS SHOWN ON THE PLAT.

2. EASEMENTS CREATED BY THIS PLAT THAT ARE CO-LOCATED WITHIN PLATTED UTILITY EASEMENTS SHALL BE SUBORDINATE TO THE PUBLIC UTILITY EASEMENT.

IN WITNESS WHEREOF, _____ HAS EXECUTED AND CAUSED THIS DEDICATION TO BE MADE AND SIGNED THIS ____ DAY OF _____, 2026.

_____ BY: _____

WITNESS
PRINT NAME _____

_____

WITNESS
PRINT NAME _____

## ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF LEE

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY MEANS OF ___ PHYSICAL PRESENCE OR ___ ONLINE NOTARIZATION ON THIS ____ DAY OF _____, 2026, BY _____ AS (CORPORATION) ____ WHO IS PERSONALLY KNOWN TO ME OR HAS (AS) PRODUCED _____ AS IDENTIFICATION.

(AFFIX NOTARY SEAL)

NOTARY PUBLIC SIGNATURE ABOVE
PRINT NAME _____
EXPIRATION DATE _____
COMMISSION EXP. DATE _____

## SURVEYORS CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND COMPLIES WITH ALL OF THE SURVEY REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES. I FURTHER CERTIFY THAT THE REQUIRED REFERENCE MONUMENTS (P.R.M.'S) HAVE BEEN PLACED AT THE LOCATIONS SHOWN ON THE PLAT.

DONE THIS ____ DAY OF _____, 2026

_____
PHILLIP M. MCNULTY, PSM 6915
PROFESSIONAL LAND SURVEYOR AND MAPPER
HARRIS JORGENSEN, LLC
CERTIFICATE NUMBER LB 6921
3046 DEL PRADO BOULEVARD S. #100
CAPE CORAL, FLORIDA 33904

SURVEYOR SEAL

## DESCRIPTION:

A PARCEL OF LAND LYING IN GOVERNMENT LOT 1, SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID GOVERNMENT LOT 1; THENCE RUN S.89°23'59"E. ALONG THE NORTH LINE OF SAID SECTION FOR A DISTANCE OF 208.69 FEET; THENCE RUN S.39°09'07"W. FOR A DISTANCE 806.79 FEET TO AN INTERSECTION WITH THE CENTERLINE OF SANIBEL-CAPTIVA ROAD (66 FEET WIDE) BEING A POINT OF CUSP OF CURVATURE; THENCE RUN NORTHWESTERLY ALONG SAID CENTERLINE AND ALONG THE ARC OF A CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 1777.62 FEET (CHORD BEARING N.39°09'07"W.) FOR A DISTANCE OF 1778.15 FEET TO A POINT OF TANGENCY; THENCE RUN S.17°09'14"W. FOR A DISTANCE OF 33.00 FEET TO AN INTERSECTION WITH THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF SAID SANIBEL-CAPTIVA ROAD, BEING A POINT OF CUSP OF CURVATURE AND THE POINT OF BEGINNING.

FROM SAID POINT OF BEGINNING RUN SOUTHEASTERLY ALONG SAID SOUTHWESTERLY RIGHT-OF-WAY LINE AND ALONG THE ARC OF A CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 1838.12 FEET (CHORD BEARING S.65°39'48"E.) FOR A DISTANCE OF 304.13 FEET TO A POINT OF COMPOUND CURVATURE; THENCE RUN SOUTHEASTERLY AND SOUTHERLY ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 25.00 FEET (CHORD BEARING S.07°39'23"E.) FOR A DISTANCE OF 40.67 FEET TO A POINT OF TANGENCY; THENCE RUN S.31°00'00"W. FOR A DISTANCE OF 210.12 FEET; THENCE RUN S.59°00'00"E. FOR A DISTANCE OF 49.01 FEET; THENCE RUN NORTHEASTERLY ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS 25.00 FEET (CHORD BEARING N.24°44'47"E.) FOR A DISTANCE OF 8.43 FEET; THENCE RUN N.55°23'46"E. FOR A DISTANCE OF 300.55 FEET; THENCE RUN N.89°49'18"E. FOR A DISTANCE OF 38.57 FEET; THENCE RUN S.79°20'09"E. FOR A DISTANCE OF 338.83 FEET; THENCE RUN N.80°22'46"E. FOR A DISTANCE OF 77.71 FEET; THENCE RUN N.08°01'14"E. FOR A DISTANCE OF 264.66 FEET TO A POINT ON THE AFORESAID SOUTHWESTERLY RIGHT-OF-WAY LINE; THENCE RUN S.72°16'50"E. ALONG SAID SOUTHWESTERLY RIGHT-OF-WAY LINE FOR A DISTANCE OF 256.87 FEET TO THE POINT OF BEGINNING.

BEARINGS ARE BASED ON THE NORTH LINE OF THE AFORESAID SECTION 13 AS BEING S.89°23'59"E.

SAID TRACT CONTAINS 140,008.437 SQUARE FEET OR 3.357 ACRES, MORE OR LESS.

## APPROVALS:

THIS PLAT IS ACCEPTED AND APPROVED BY THE CITY OF SANIBEL, LEE COUNTY, FLORIDA THIS ____ DAY OF _____, 2026.

_____
DANA SOUZA
CITY OF SANIBEL MANAGER

_____
DOROTHY LYNN KELLY

_____
JOHN D. AGNEW
CITY ATTORNEY

ON BEHALF OF THE CITY OF SANIBEL, I HAVE REVIEWED THE ATTACHED PLAT OF COASTAL CREEK SUBDIVISION, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, CITY OF SANIBEL, LEE COUNTY, FLORIDA AND FIND THAT IT COMPLIES WITH ALL OF THE REQUIREMENTS OF CHAPTER 177, PART 1, FLORIDA STATUTES.

_____
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. _____
PRINTED NAME: _____

## NOTICE:

"LANDS DESCRIBED IN THIS PLAT MAY BE SUBDIVIDED BY THE DEVELOPER WITHOUT THE ROADS, DRAINAGE, WATER AND SEWER FACILITIES BEING ACCEPTED FOR MAINTENANCE BY LEE COUNTY. ANY PURCHASER OF A LOT IN THIS SUBDIVISION IS ADVISED TO DETERMINE WHETHER THE LOT MAY BE SUBJECT TO ASSESSMENT OR CALLED UPON TO BEAR A PORTION OR ALL OF THE EXPENSE OF CONSTRUCTION, MAINTENANCE, OR IMPROVEMENT OF ROADS, DRAINAGE, WATER, AND SEWER FACILITIES."

## NOTICE:

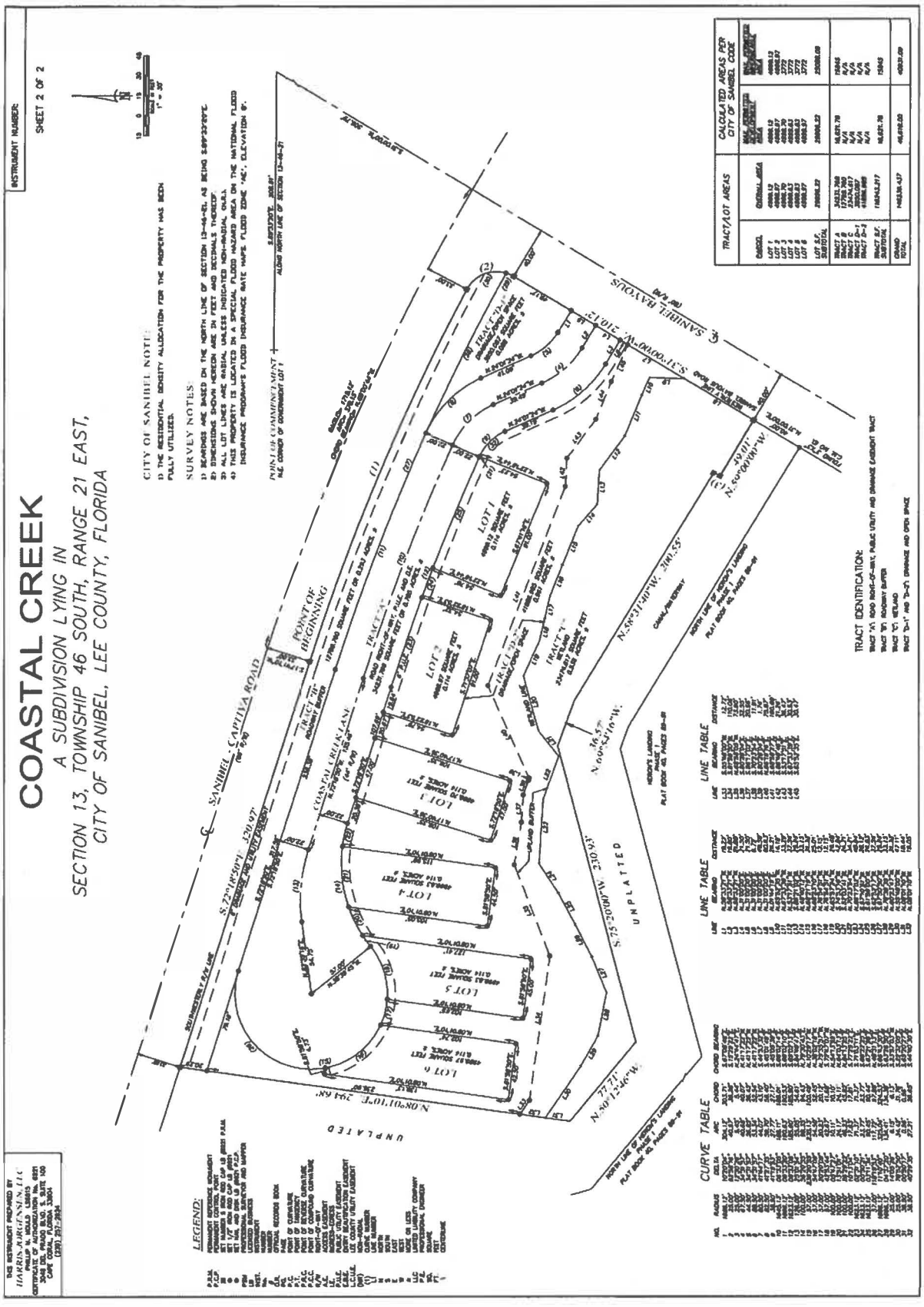
THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY AND/OR THE CITY OF SANIBEL.

## CLERK OF COURT CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, WAS FILED FOR RECORD AT _____M., THIS ____ DAY OF _____, 2026 AND DULY RECORDED AS INSTRUMENT NUMBER _____ IN THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

_____
KEVIN C. RAMSEY
LEE COUNTY CLERK OF COURT

CLERK SEAL


COASTAL CREEK
A SUBDIVISION LYING IN
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,
CITY OF SANIBEL, LEE COUNTY, FLORIDA
SHEET 2 OF 2
INSTRUMENT NUMBER:
CITY OF SANIBEL NOTE:
1) THE RESIDENTIAL DENSITY ALLOCATION FOR THE PROPERTY HAS BEEN FULLY UTILIZED.
SURVEY NOTES:
1) BEARINGS ARE BASED ON THE NORTH LINE OF SECTION 13-46-21, AS BEING S89°29'29"E.
2) DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
3) ALL LOT LINES ARE RADIAL UNLESS INDICATED NON-RADIAL (N.R.).
4) THIS PROPERTY IS LOCATED IN FLOOD ZONE AE AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM'S FLOOD INSURANCE RATE MAPS, FLOOD ZONE "AE", ELEVATION 9'.
POINT OF COMMENCEMENT
NE. CORNER OF GOVERNMENT LOT 1
ALONG NORTH LINE OF SECTION 13-46-21
POINT OF BEGINNING
SANIBEL-CAPTIVA ROAD
S.72°01'50"E. 230.93'
SANIBEL BAYOUS
S.31°00'00"W. 210.12'
N.58°31'40"W. 210.55'
N.00°52'16"W. 16.57'
N.00°52'16"W. 39.01'
S.75°20'00"W. 230.93'
N.40°12'46"W. 97.71'
N.08°10'10"E. 294.88'
UNPLATTED
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
TRACT "A"
TRACT "B"
TRACT "C"
TRACT "D-1"
TRACT "D-2"
COASTAL CRUISIAN
HERON'S LANDING PHASE I PLAT BOOK 45, PAGES 89-91
TRACT/LOT AREAS
CALCULATED AREAS PER CITY OF SANIBEL CODE
LEGEND:
CURVE TABLE
LINE TABLE
TRACT IDENTIFICATION:
TRACT "A": ROAD RIGHT-OF-WAY, PUBLIC UTILITY AND DRAINAGE EASEMENT TRACT
TRACT "B": ROADWAY BUFFER
TRACT "C": WETLAND
TRACT "D-1" AND "D-2": DRAINAGE AND OPEN SPACE

# R A L F  B R O O K E S,  A T T O R N E Y

*Board Certified in City, County and Local Government Law*

April 8, 2026

Re: Notice of Appeal of Planning Commission Resolution 26-10 dated March 24, 2026

Dear City of Sanibel, c/o City Manager

Pursuant to Section 82-98 of the Sanibel Land Development Code (LDC), the Appellant Gayle Dendinger hereby appeals the Sanibel Planning Commission Resolution 26-10 and files the attached appeal and pay the filing fee(s) for the appeal of **Planning Commission Resolution 26-10, approved March 24, 2026** approving **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2) and increases lot coverage by an additional **600 sq** of impervious surfaces on the additional four (4) lots (from ±3,200 to ±3,800 sq) in the new Coastal Creek development.

The appellant Gayle Dendinger resides upon or own property within Sanibel on Heron's Lake, which is owned jointly by the City of Sanibel and nine homeowners living on Osprey Court in Heron's Landing (the "Lake Homeowners"). The appellant participated by written comment or by appearance at the Planning Commission hearing and has legal standing under the LDC to file this appeal[1]. Enclosed are the Appeal with Appendix Volume 1-5. This appeal is timely filed with the City Manager, City Clerk and City Attorney[2] within 15 days of the hearing on Resolution 26-10 and the appeal fee of $1.245.20 will be paid to the City Clerk.

We ask that as courtesy, a mutually convenient date, and time, be scheduled for the hearing before City Council.

Sincerely,

Ralf Brookes Attorney
1217 E Cape Coral Parkway #107
Cape Coral, Fl 33904
Phone (239) 910-5464
RalfBrookes@gmail.com

[1] 82-98 (b) Any "person residing upon, or owning property within the city, or owning or operating a business within the city, *who participated by written comment before or at the planning commission hearing or who participated in person* or through an authorized agent at the planning commission hearing."

[2] 82-98 (b) "The appeal shall be filed within 15 days after the date that the planning commission decision *was filed*."

SANIBEL CITY COUNCIL
Gayle Dendinger Administrative Appeal

**ADMINISTRATIVE APPEAL OF**
**PLANNING COMMISION RESOLUTION 26-10**

Pursuant to Section 82-98 of the Sanibel Land Development Code (LDC), the Appellant Gayle Dendinger hereby appeals to the Sanibel City Council the March 24, 2026 decision of the Sanibel Planning Commission approving Resolution 26-10.

Resolution 26-10 proposes **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2) and increases lot coverage by an additional **600 sq** of impervious surfaces on the additional four (4) lots (from ±3,200 to ±3,800 sq) in the Coastal Creek development.

The appellant Gayle Dendinger resides upon or own property within Sanibel on Heron's Lake, which is owned jointly by the City of Sanibel and nine homeowners living on Osprey Court in Heron's Landing (the "Lake Homeowners"). The appellant Gayle Dendinger participated by written comment or by appearance at the Planning Commission hearing and has legal standing under the LDC to file this appeal[1]. This appeal is timely filed with the City Manager, City Clerk and City Attorney[2] within 15 days of the hearing on Resolution 26-10 with an appeal fee of $1.245.20 paid to the City Clerk.

This appeal and appeal appendix incorporate includes all evidence and testimony given in opposition to City of Sanibel Resolution 26-10 and includes references to the following documents that are provided in separate Appendix Volumes 1-5 with an Index Table of Contents:

- City of Sanibel Resolution 26-10
- City of Sanibel Resolution 25-058 (Plat Approval Authority)
- Application file and record for Development Permit (Application No. DP-2021-001803)
- Minor Subdivision (Application SPLT-2022-000074)
- City of Sanibel Resolution 23-049
- City of Sanibel Resolution 23-24

[1] 82-98 (b) Any "person residing upon, or owning property within the city, or owning or operating a business within the city, *who participated by written comment before or at the planning commission hearing or who participated in person* or through an authorized agent at the planning commission hearing."

[2] 82-98 (b) "The appeal shall be filed within 15 days after the date that the planning commission decision *was filed*."

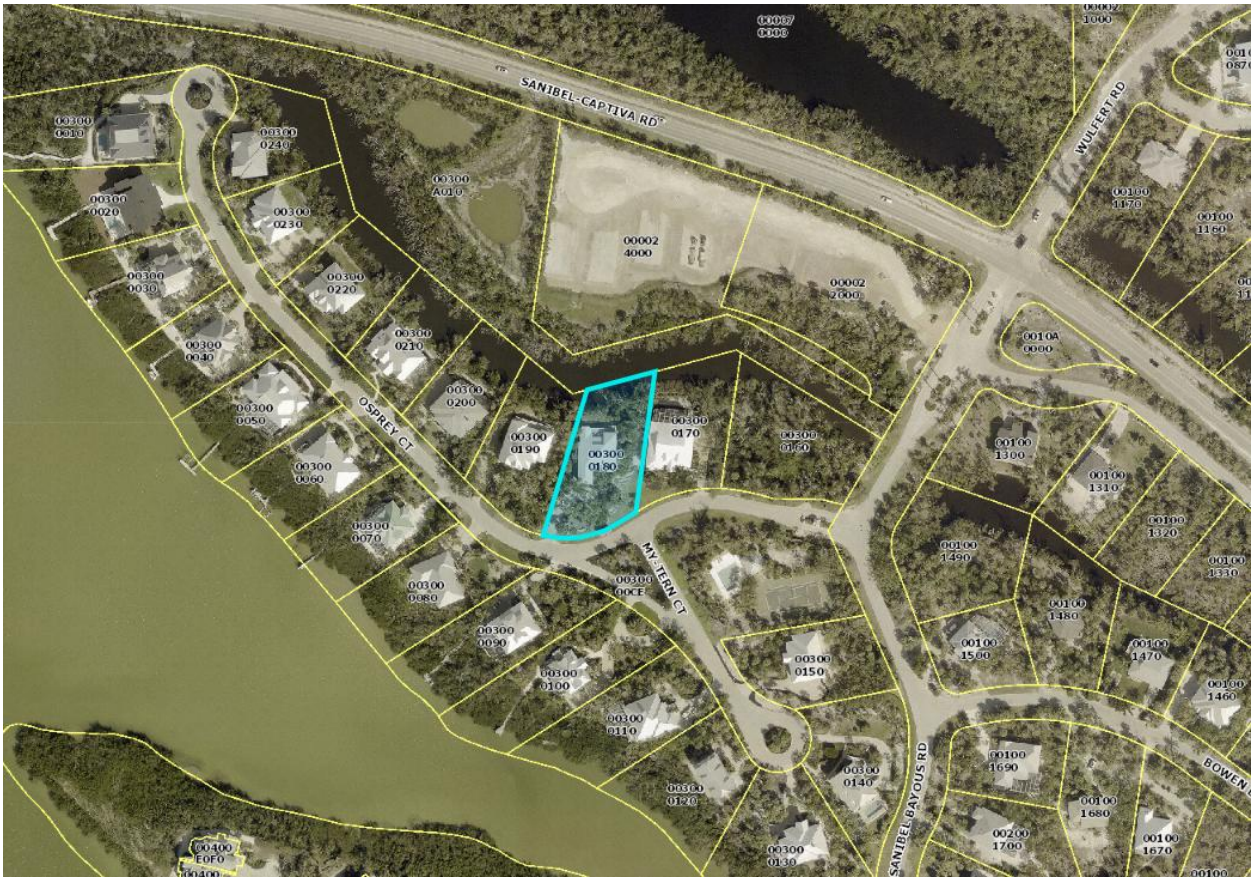
Appellant/Petitioner GAYLE DENDINGER of 5406 Osprey Court, Sanibel, FL 33957 appeals the March 24, 2026, quasi-judicial Planning Commission hearing and decision approving the **"REVISION OF AN APPROVED PRELIMINARY PLAT"** by City of Sanibel Planning Commission Resolution 26-10 for six (6) lots in the Coastal Creek subdivision development.

GAYLE DENDINGER appeared at the hearings on this development plat and invoked previous hearing testimony given in opposition to the subdivision development. GAYLE DENDINGER appeals this decision by City of Sanibel Planning Commission Resolution 26-10 approving six (6) lots in the Coastal Creek subdivision development with conditions and respectfully requests the appeal be heard by the Sanibel City Council.

Resolution 26-10 proposes **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2) and increases lot coverage by an additional **600 sq** of impervious surfaces on the additional four (4) lots (from ±3,200 to ±3,800 sq).

The six (6) lots subject to **"REVISION OF AN APPROVED PRELIMINARY PLAT"** have not been fully remediated and should be fully remediated or restored to prior natural background conditions prior to any further development. GAYLE DENDINGER respectfully alleges that the subdivision approval grants a development footprint exceeding what has previously been contested and approved and:

- Is inconsistent with the Sanibel Comprehensive Plan
- Is not in compliance with Land Development Code ("LDC"), and
- Fails to address the known "public nuisance" on the subject property site.



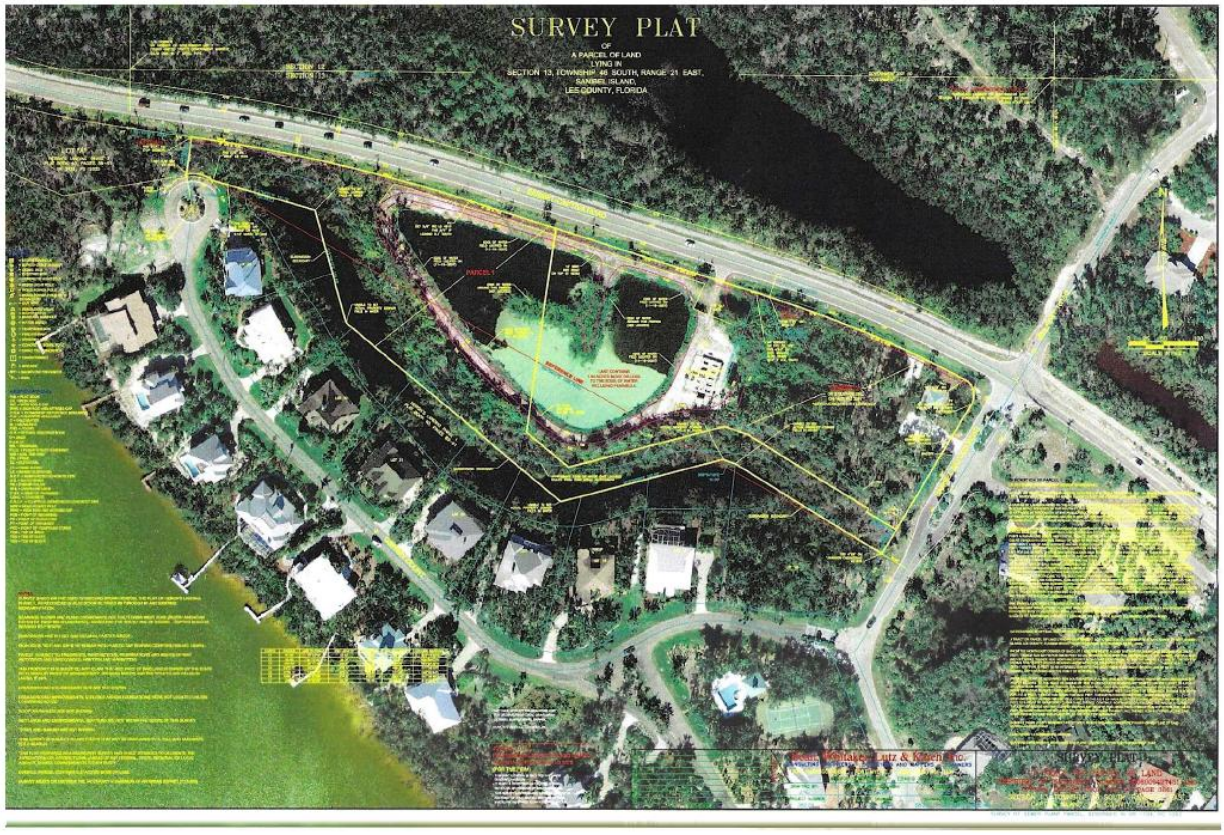

Aerial Map of Location of GAYLE DENDINGER's residence 5406 Osprey Court across the Heron's Lake from the cleared areas of "Coastal Creek" Subdivision Parcels

## STATEMENT OF FACTS & HISTORICAL BACKGROUND

The site is adjacent to Heron's Lake, one of Sanibel's Top 5 polluted lakes that is actually jointly owned by the City of Sanibel and nine homeowners living on Osprey Court in Heron's Landing (the "Lake Homeowners") including GAYLE DENDINGER of 5406 Osprey Court, shown in aerial above.

The Applicant proposes to build six homes with pools on top of land that contained a decommissioned private wastewater plant.

The City of Sanibel decommissioned the private Sanibel Bayous plant in 2008 after sewage leaching from the plant forced the closure of Bowman's Beach in 2007.




Sanibel Bayous Private Wastewater Plant (decommissioned 2008)

All six (6) of the homes are located on the former Sanibel Bayous Private Wastewater Plant parcels and four (4) of the new Coastal Creek lots upon which homes will be built are located on a former settlement pond of Sanibel Bayous Private Wastewater Plant.

Resolution 26-10 proposes **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2) and increases lot coverage by an additional **600 sq** of impervious surfaces on the additional four (4) lots (from ±3,200 to ±3,800 sq).

## WHAT IS PROPOSED?

Resolution 26-10 purports to approve an application to:

> **"AMEND ALLOCATED IMPERMEABLE COVERAGE** FOR LOTS 1 THROUGH 6 AT A UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) DEVELOPMENT KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5325 AND 5301 SANIBEL CAPTIVA ROAD, PARCEL NOS. 13-46-21-T2-00002.4000 AND 13-46-21-T2-00002.2000".

Resolution 26-10 goes seeks, at the behest of the Applicant per his application narrative to **maximize** increases to the amount of impervious surface lot coverage *beyond* what was approved by the Sanibel City Council during highly contested public hearings.

However, the Sanibel Plan and LDC emphasize natural, pervious design standards, not full-lot coverage by impervious surfaces (as associated with commercial parking lots) particularly in a residential setting on an already polluted lake, Heron's Lake.

Resolution 26-10 proposes **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2) and increases lot coverage by an additional **600 sq** of impervious surfaces on the additional four (4) lots (from ±3,200 to ±3,800 sq).

The increase in impervious surface will generate additional stormwater contaminants, including legacy wastewater plant contaminants present on the site. Petitioner DENDINGER lives across Heron's Landing Lake from the Coastal Creek Project and is close to Lots 1 and 2 for which Resolution 26-10 proposes **full-lot coverage** of **5,000 sq** (the entirety lot of Lots 1 and 2).

Granting full-lot impervious surface coverage on Lots 1 and 2 in this section of the "Coastal Creek" development not only impacts the restoration and replacement of natural vegetation in the proposed Coastal Creek development, but diminishes natural capacity to absorb stormwater run-off, storm surge and precipitation. This increase in impervious surfaces reasonably amplifies concerns for flooding, with increasing risks not fully captured in stormwater engineering particularly in Tropical Storms and Hurricane events. Full lot coverage by impervious surfaces denies Petitioner DENDINGER the approved capacity of natural function at this flood-prone site, and he and his neighbor's opportunity to be heard on the matter.

Appellant DENDINGER as an existing Sanibel resident has already experienced loss from the impacts of repetitive hurricanes, tropical storms and extreme precipitation events on his property at Osprey Cour. Appellant DENDINGER relies upon Heron's Lake and has reasonable concern for the Coastal Creek diminishing natural stormwater function impacts:

- that arise from <u>concentrating impervious surfaces</u> by increasing the impervious surface ratio to **full-lot coverage** of **5,000 sq on lots 1 and 2** and **increase in 600 sf on** the additional four (4) lots (i.e., from ±3,200 to ±3,800 sq).
- *further* alter the natural floodplain that was previously altered by 26,000 cubic yards brought onto the wastewater plant site to "encapsulate" legacy contaminants,
- increase run-off near potential "hot spots" of contaminants,
- ultimately outfall into ecologically failing and vulnerable Heron's Landing Lake,

- were proven to be interconnected by the contamination of Bowman's Beach (2007) leading to the decommission[3] of the sewage plant.

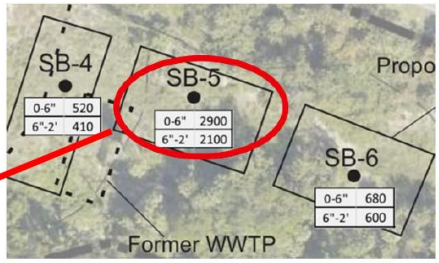
[3] The City of Sanibel decommissioned the plant in 2008 after sewage leaching from the plant forced the closure of Bowman's Beach in 2007. See, Testimony of Chandler, Staff Report.

## ADDITIONAL TESTING OF HERON'S LANDING LAKE

Recent 2024 testing of Heron's Landing Lake in 2024 revealed PFAS[4] commonly known a pollutant "forever chemical" levels in the water and cored sediment samples. This is indicative of the migration of persistent contaminants from the site of former sewage package plant, Sanibel Bayous, on which the Coastal Creek subdivision is located.




PFAS Sampling (July 17, 2024), EPA 1633 – Aqueous & Solid (units ng/l)




"Startling" Phosphorus 2900-2100 mg/kg (June 15, 2023)

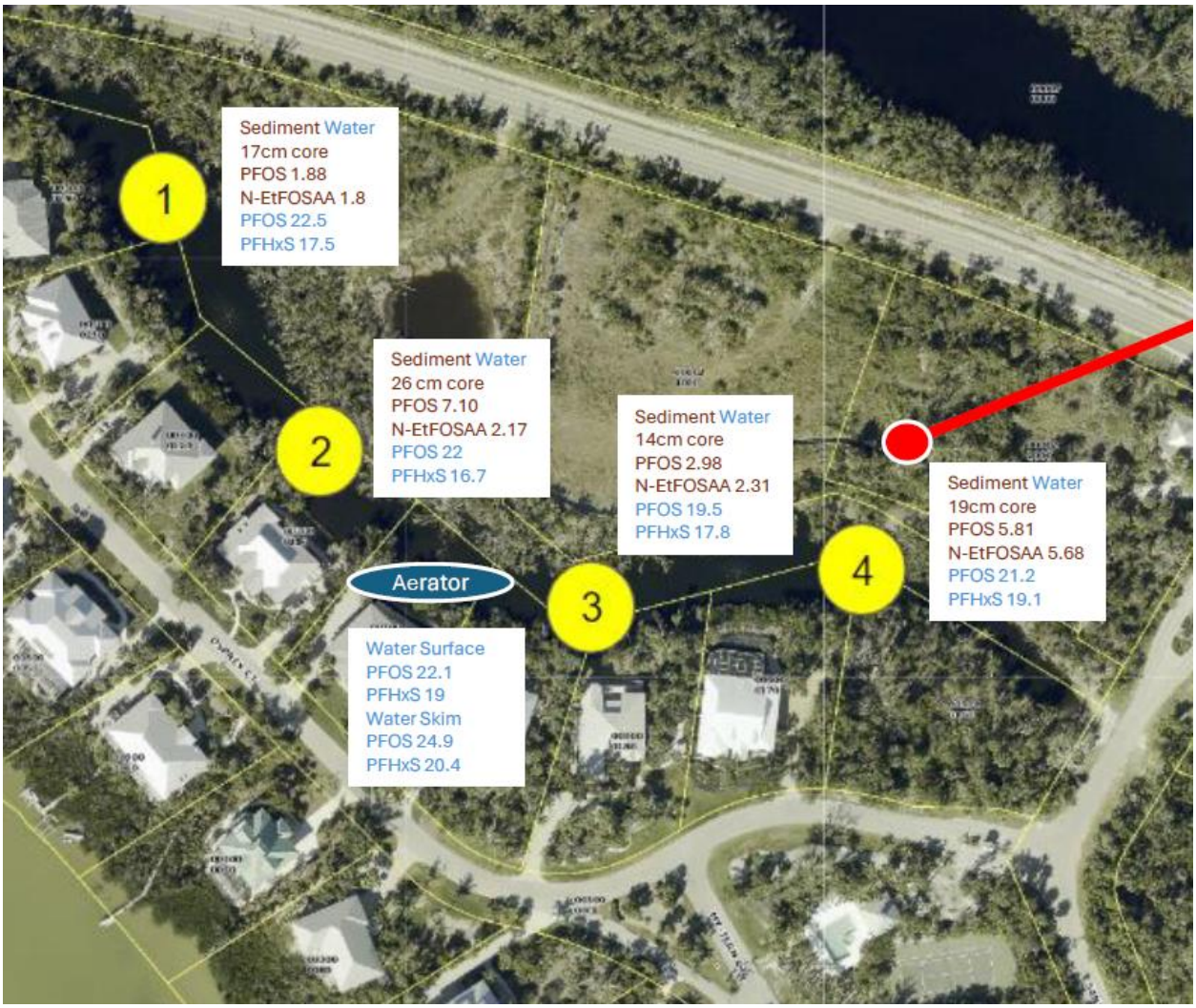


Photograph Heron's Landing Lake (June 28, 2023)

[4] Scientific studies have shown that exposure to some PFAS in the environment may be linked to harmful health effects in humans and animals:

https://www.epa.gov/pfas/pfas-explained

https://www.atsdr.cdc.gov/pfas/index.html




**PFAS Sampling (July 17, 2024), EPA 1633- Aqueous & Solid (units ng/l)**

The presence of PFAS raise new concerns for *additional* adverse impacts on the Heron's Landing lake health from the sewage package plant's legacy contaminants and call for excavation of the identified legacy contaminants "hot spots" in the locations of the former wastewater plant and the east of the former wastewater plant on proposed lots where contaminated soils were not previously excavated and removed, see Soil Boring Five (SB-5) below:

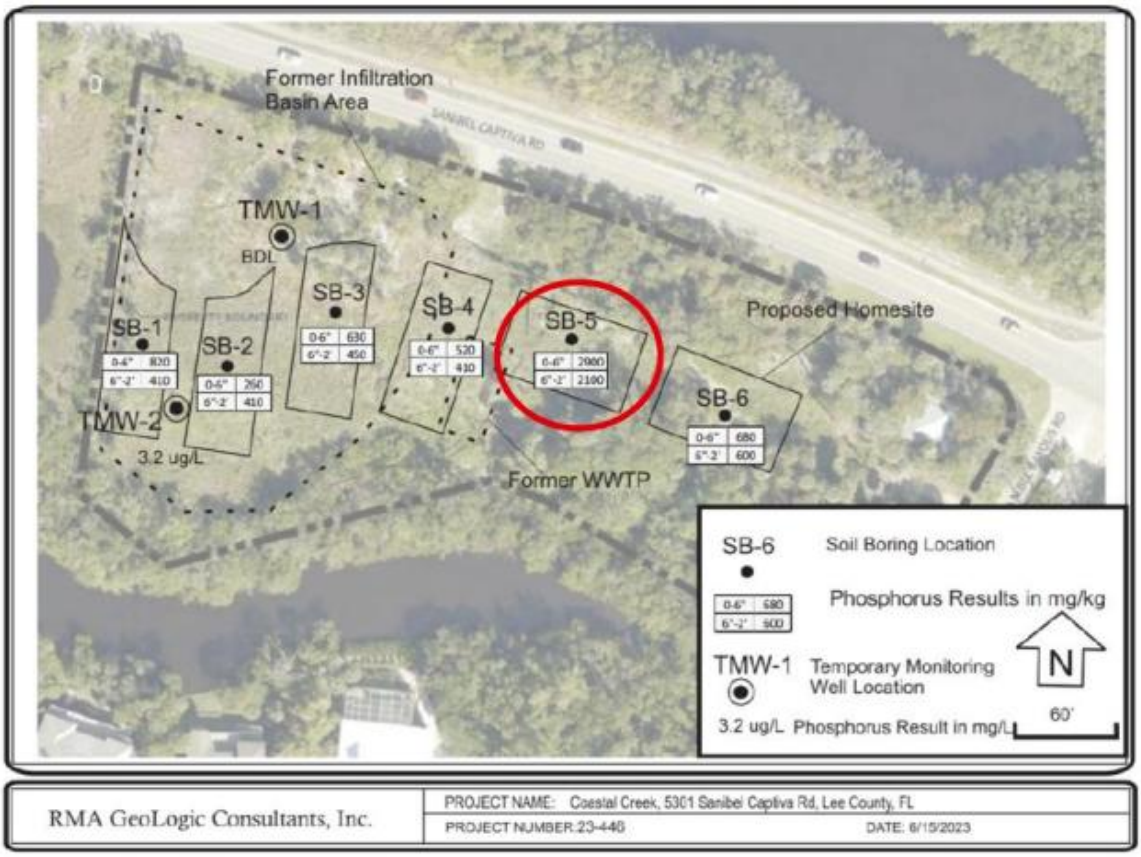



FIGURE 1 - Site Map Showing Former WWTP & Infiltration Basin, Soil and Groundwater Sample Locations, and Phosphorus Results

Previously, the City of Sanibel Resolution 23-049 approved a development permit and subdivision plat for six clustered homes with in-ground pools ("Coastal Creek") on the site a decommissioned former private wastewater treatment plant. WWTP operations is a commonly verified source of PFAS contamination.

This site also continues to leach nutrients (i.e., phosphorous and nitrogen) and other suspected contaminants through the groundwater from the subject site into Heron's Landing Lake. The failing lake health and resulting nuisance algae blooms, including harmful cyanobacteria ("Harmful Algae Blooms" or "HAB") are responsible for an array of nuisances including odors, and toxins that, along with PFAS have real adverse impacts to human and environmental health.

The **known** nuisances are easily viewed and smelled and constitute not only environmental but public health, safety and welfare "nuisances". These known nuisances are *further* exacerbated by the less visible but environmentally catastrophic magnitude of hazards and impacts from *other* sewage-related contaminants. PFAS that are correlated with sewage-related nutrient pollution have been found to

- easily migrate,
- persist indefinitely (lasting in the environment for 100 to 1,000 years),
- bioaccumulate across species,
- have been found in wastewater plant effluent and biosolids.

In this location PFAS has been sampled at 40-45 ng/l. [5]

Heron's Lake is owned jointly by the City of Sanibel and nine homeowners living on Osprey Court in the Heron's Landing community (the "Lake Homeowners"). Heron's Lake is the subject of a "Lake Agreement" to which the City and the Lake Homeowners (including the Petitioner) is a committed signatory. The Lake Agreement's purpose to achieve on-going nutrient reduction is handicapped by the "Coastal Creek" Project, despite overtures for collaboration, and **hampered** (emphasis added) by the continued migration of nutrients and contaminants from the Coastal Creek property into the ecologically degraded and vulnerable lake.

The presence of PFAS in the soils and lake necessitate further actions to actually reduce stormwater runoff and actions to remediate PFAS in Heron's Lake protect

- the estuary function of the lake,

[5] The PFAS levels at Heron's Lake are 10-15 times ABOVE reported levels in survey of PFAS in nearby surface waters at 4 ng/l. See Bowden Lab, Statewide surveillance and mapping of PFAS in Florida surface water

- wildlife utilizing the lake as habitat and food source,
- the community's human health, including food eaten as retained catch.

The Planning Commission has failed to properly interpret and apply Land Development Code (LDC) Sections and Comprehensive Plan policies set forth in the Sanibel Plan that:

- prohibit pollution;
- protect Sanibel Freshwater Lakes, including Heron's Lake and
- protect residents from hazardous conditions, including PFAS and Nutrient pollutants that are detrimental to the public health, welfare, and safety; and
- protect the peaceful use and enjoyment of adjoining lands.

**THE SANIBEL PLAN, COMPREHENSIVE PLAN**

Specifically, the Planning Commission has failed to properly interpret and apply the provisions of LDC and Comprehensive Plan that require the following:

**Conservation Goals, Objective 4,** the Planning Commission must "protect and conserve water resources and prevent impairment of the quality and quantity of surface and groundwater resources."

**Section 3.2.2. 4** of The Sanibel Plan states that it is "imperative" to protect "lakes and wetlands from any sewage pollution" and recommends studies and taking "appropriate remedial action."

The Sanibel Plan, Future Land Use Element requires the City to ensure that all new development will "promote the protection of natural, [and] environmental resources," and "promote the maintenance or enhancement of water quality."

**Policy B2.1** further requires the City to "protect national resources by application of best management practices."

## LAND DEVELOPMENT CODE

Sanibel Land Development Code **Section 86-40** requires the Planning Commission to consider how to minimize environmental damage caused by this development. Section 86-40(b) requires that:

> "The design, location and construction and the maintenance of all development shall be in a manner that minimizes environmental damage."

Sanibel Land Development Code **Section 14-244** defines land as "hazardous" when conditions on the land are:

> "dangerous to the health, welfare or safety of the public, the occupants of surrounding properties, or the occupants of such land;" or when "noxious odors" or "harmful particulates" emanate from the land.

Sanibel Land Development Code **Section 14-247** requires the landowner to assess, remediate the hazardous conditions, and restore the land

> "by the means .. least detrimental to the owner's property and to the public environment."

Sanibel Land Development Code **Section 78-15** addresses public nuisances,

> "The provisions of this Land Development Code are deemed to be necessary for the protection of the public health, safety and welfare and for the protection of the peaceful use and enjoyment of any lands by the owners thereof, and any violation of this Land Development Code is hereby declared by the city council to constitute a public nuisance."

## LAWFUL DISCLOSUE OF DEFECTS AND CONDITIONS

The City Commission should require a condition that the Applicants disclose to prospective purchasers that the site is a decommissioned wastewater plant, test results recorded in public record including PFAS test results in the lake and soils, and actions taken to remediate the site (or the lack thereof).

Applicable Florida law requires the full disclosure of the history and environmental problems of this site. The Florida Supreme Court's held in *Johnson v. Davis, 480 So.2d 625 (Fla. 1986)*, that a seller of residential real property has a common law duty to disclose any latent defects if he or she has knowledge of conditions materially affecting the value of the property that are not readily observable or known to the buyer.

There is increasing scrutiny of sewage associated contaminants applicable to this site and the negative impacts of PFAS on biological life, including human health and persistent environmental degradation.

The concerns for legacy contamination from the wastewater site on the subject property have escalated and will not abate without remediation. Disclosure of these unabated defects, including assuming their liability through property ownership, is lawfully required.

## REQUEST FOR RELIEF

Appellant GAYLE DENDINGER respectfully appeals the Planning Commission's approval of Resolution 26-10 and requests the Applicant remediate PFAS contamination on the site and Heron's Lake.

By granting maximum impervious coverage on a site known to harbor persistent chemical contaminants, the City is not simply adjusting numbers; it is actively diminishing the island's natural capacity to mitigate flood risk and contain legacy pollution. The evidence of PFAS "forever chemicals" and nutrient leaching into Heron's Landing Lake proves that the subject property remains a functional public nuisance that has yet to be properly remediated.

To allow **full-lot coverage** of **5,000** sf on these sensitive lots ignores the strict scrutiny required by the Sanibel Plan and the Land Development Code. Such a departure from established density and design standards creates an irreversible "parking lot aesthetic" that is incompatible with the surrounding neighborhood and ecologically dangerous to the shared waters of the Heron's Landing community.

Petitioner DENDINGER requests that the City Council:

1. **Deny** the requested revision of the preliminary plat under Resolution 26-10;
2. **Mandate** comprehensive environmental delineation and remediation of the legacy PFAS contaminants prior to any further development activity on the Coastal Creek site.
3. **Consider** purchasing and restoring the site to natural conditions.

/s/ Gayle Dendinger

/s/ Ralf Brookes Attorney

Attorney for Appellant Gayle Dendinger

1217 E Cape Coral Parkway #107

Cape Coral, Fl 33904

Phone (239) 910-5464

RalfBrookes@gmail.com

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**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 23-24**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL; RELATING TO A DEVELOPMENT PERMIT (APPLICATION NO. SPLT-2022-000074 AND DP-2021-001803) FILED PURSUANT TO SECTIONS 82-421(1), 82-422, AND 114-106 OF THE LAND DEVELOPMENT CODE FOR PRELIMINARY PLAT, TO ALLOW A UNIFIED RESIDENTAIL HOUSING (CLUSTER HOUSING) DEVELOPMENT INCLUDING SIX PARCELS FOR SINGLE-FAMILY RESIDENTIAL USE AND ASSOCIATED IMPROVEMENTS, KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5301-5326 SANIBEL CAPTIVA ROAD, PARCEL NO. 13-46-21-T2-00002.2000 AND 13-46-21-T2-00002-4000, MORE FULLY DESCRIBED HEREIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** Sections 82-421(1) and 82-422 of the Land Development Code detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 of the Land Development Code provides for requirements and procedures for preliminary plats; and

**WHEREAS,** Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner of the property located at 5301-5326 Sanibel Captiva Road, has authorized Brian Smith, Ensite, Inc., to submit Development Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 (the "subject applications") to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision; and

**WHEREAS**, the subject applications were initially approved by Sanibel Planning Commission Resolution 23-001; however, a timely appeal of Planning Commission Resolution 23-001 was filed pursuant to Land Development Code Section 82-98 – Appeals; and City Council, after consideration of the appeal, remanded the subject applications back to Planning Commission for a new hearing by Sanibel City Council Resolution 23-024; and

**WHEREAS**, the applicant has reiterated its requests for approval of the subject applications; and

**WHEREAS,** a duly noticed public hearing of the subject applications was held before the Planning Commission on July 25, 2023; and

**WHEREAS,** after providing the applicant, staff, and the public an opportunity to present testimony and evidence, and having reviewed the record, and all applicable sections of the Land Development Code including Section 86-40(b), the Planning Commission finds that the criteria for granting the applications have been met and that the application should therefore be approved.

**NOW, THEREFORE, BE IT RESOLVED, THE PLANNING COMMISSION OF THE CITY OF SANIBEL** finds that Development Permit Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision on property owned by Buckingham 225 Development, Inc. (Daniel W. Dodrill), and located at 5301-5326 Sanibel Captiva Road, and more fully identified as Tax Parcel No. 13-46-21-T2-00002.2000 and 13-46-21-T2-00002.4000, is approved.

Any approval of this Development Permit Application is pursuant to the application and attachments included with these items, and subject to the following condition(s) contained in the July 25, 2023, staff report:

1. A copy of the approved preliminary plat is attached to this resolution as Exhibit "A". Preliminary plat approval shall be effective and valid for a period of three years. The planning commission may, however, extend this effective period for an additional two years, provided that, at the time such extension is granted, the preliminary plat continues in compliance with all requirements of this Land Development Code and the Sanibel Plan. If all requirements for approval of a final subdivision plat, and the recording of such plat, are not completed within the time period for which preliminary approval is valid and effective, such preliminary approval and all rights conferred thereby shall be terminated and expire.
2. Preliminary plat approval may be extended by city council for an additional period of time beyond the three-year effective time period and the two-year extension that may be approved by the planning commission due to the necessity of achieving compliance with federal, state or local regulations pertaining to endangered or protected species and respective habitat or due to other unforeseen environmental conditions.
3. The applicant shall submit for final approval, a final subdivision plat in accordance with the requirements of *Land Development Code Section 114-89 – Final plat review and approval*.
4. A copy of the approved Coastal Creek Site Development Plans is attached to this resolution as Exhibit "B".
5. All future land use and development shall comply with Exhibit "A" and "B", and all associated requirements of the Land Development Code including, but not limited to:
    a. Single-family residential and associated accessory uses
    b. Lot sizes
    c. Setbacks
    d. Limitations on vegetation removal and developed area
    e. Limitation on coverage with impermeable surfaces
    f. Minimum distance between buildings
    g. Environmental performance standards
6. The applicant shall execute, and record in the public records of Lee County, a declaration that the residential density allocation for the property has been fully utilized. If the development is to be phased and only a portion of the residential density allocated to the property is to be utilized, then the declaration shall reflect that portion so utilized. The declaration shall be prepared, executed and recorded in accordance with the formalities required under state law for the conveyance of real property, for which the developer shall be responsible. Completion permits shall not be issued for any dwelling units in the development and the subdivision shall not be final until such time as the developer shows compliance with this section.
7. The applicant shall establish a legal entity (a property owner's association) with responsibility for complying with the requirements of this development permit and maintaining the private road, drainage system, utilities, landscape buffers, and wetland preservation. Restrictive covenants for the subdivision are to include the following provisions:
    a. A provision that requires compliance with the conditions of development permit DP-2021-1803;
    b. A provision that prohibits any dwelling unit in the subdivision from use as resort housing;
    c. A provision requiring the Association to maintain the private street, stormwater management system, utilities, landscape buffers, and wetland preservation as conditions of approval for the preliminary plat and construction plans. The Association shall have the authority to make assessments and enforce liens to

cover the costs and assessments;

d. A provision giving the City of Sanibel the right to enforce the Associations obligations to maintain the private street, the stormwater management system, utilities, landscape buffers, and wetland preservation required as conditions of approval for the preliminary plat and construction plans;

e. A provision authorizing the City of Sanibel to make repairs and perform maintenance on required facilities, if not done by the Association, and giving the City the right to make assessments and enforce liens for costs of repairs and maintenance;

f. A provision providing a notice to lot purchasers that the street within the subdivision is not a public street, is to be maintained by the owners at their expense and is intended to remain a private street in perpetuity;

g. A provision that specifies as to each lot how many dwelling units are permitted thereon, including the amount of developed area and coverage assigned to each single-family lot;

h. A provision requiring the applicant to provide each property purchase/owner with information about the common open space and preservation areas, including Tracts B, C, D-1, and D-2; and

i. A provision in the amendment section of the documents prohibiting amendments to the preceding provisions without the written jointer or consent of the City of Sanibel.

8. Preliminary plat approval shall not relieve the applicant from the requirement of obtaining permits from and complying with lawful requirements imposed by the Florida Department of Environmental Protection, South Florida Water Management District, and any other applicable local, State and Federal law.
9. The applicant shall install all monuments as required by Chapter 177, Florida Statutes, and construct all streets, street signs, drainage facilities, sewage treatment facilities, and other improvements as are necessary to bring the proposed subdivision in full compliance with the following requirements of the Land Development Code:
    a. All streets and other improvements in proposed subdivisions shall be constructed in accordance with all specifications as provided in this chapter and as may be adopted by the city council by resolution as "Subdivision Improvement Construction Requirements;"
    b. All necessary street signs shall be installed by the applicant in accordance with the prevailing scheme of identifying public and private streets in the city; and
    c. All necessary drainage facilities shall be constructed as required and approved by the city manager so as to meet the minimum requirements of this Land Development Code and as to accomplish the intent and purpose of this Land Development Code.
10. The applicant shall obtain formal approval of the proposed subdivision and street names from the City in accordance with Ordinance No. 86-27 and City Council Resolution No. 86-67 prior to final plat approval.
11. The applicant may not begin construction of required improvement until construction plans are approved by the City Manager and a construction bond with good and sufficient surety, an irrevocable letter of credit, or equivalent security is provided to the City in an amount equal to the cost of all required improvements, and in a form approved by the City Attorney, conditioned upon satisfactory completion of required improvements in accordance with he approved construction plans during the effective period of the preliminary plat approval.
12. No facility installed underground may be covered over until the facility has been inspected by the City Manager. Other periodic inspections may be required. Construction of required improvements shall not be complete unless and until all the improvements have been finally inspected and approved by the City Manager.
13. Prior to the commencement of development activity, the applicant shall obtain a

vegetation permit to approve revisions of the vegetation plan.

14. A native vegetation buffer shall be installed along the north property line, pursuant to LDC Chapter 122, Article II, Division 3 – Residential Development Along Arterial and Collector Roads.
15. The proposed native plant buffer along the western boundary shall be permitted to mature to the natural height and growth pattern of the plants and maintained in perpetuity to prevent encroachment into the adjacent city-owned preserve.
16. Pursuant to Sec. 122-169(3) and Sec. 122-191, all City-listed and Florida Invasive Species Council (formerly FLEPPC) listed plant species shall be removed from the site and maintained free in perpetuity.
17. The applicant shall submit a copy of the SFWMD preserve management plan annual monitoring reports to the City.
18. The trimming of mangroves or other vegetation within Tract C and Tract D-2 is strictly prohibited, except to access utilities. The Coastal Creek subdivision does not abut the Heron's Landing Lake; property owners do not have riparian rights and are not entitled to a view of the waterbody.
19. All landscaping within the Coastal Creek subdivision shall be 100% native except the six platted lots which are required to be at least 75% native; the use of sod is prohibited.
20. The use of fertilizer containing nitrogen and phosphorus is prohibited within the Coastal Creek subdivision.
21. All new vegetation within stormwater retention areas, including lands between designated home sites, shall comply with Sec. 118-286 – Planting. A revised vegetation plan shall be submitted detailing the native plants installed to vegetate the common area tracts to ensure compliance with this condition.
22. All soil excavated from the site shall be disposed of properly at an off-island location.
23. The applicant shall comply with all provisions of Chapter 86 – Site Preparation, including but not limited to:
    a. Development activities shall be designed to minimize the amount of fill used in preparation of the site. Soil and other materials shall not be temporarily nor permanently stored in locations which would result in the unnecessary destruction of vegetation. Excess soil, or other material, including dredged spoil, to be disposed of off-site, shall be deposited at specified locations in a manner causing minimal environmental damage.
    b. Erosion and sediment control measures shall be coordinated with the sequence of grading, development, and construction operations; and shall be maintained for the duration of construction until final landscaping has been installed.
    c. Removal of vegetation shall be limited to the minimum necessary to carry out development activity, except as required by other provisions of the Land Development Code. The removal of vegetation, by any means other than the use of hand-held tools, shall not occur prior to issuance of a development permit.
    d. Permanent vegetation shall be installed on the construction site as soon as utilities are in place and final grades are completed. This permanent vegetation must be cared for and maintained in a healthy condition.
    e. All on-site facilities shall be properly maintained by the owner so that they do not become nuisances. Nuisance conditions shall include but not be limited to:
        1. Improper storage resulting in uncontrolled runoff and overflow;
        2. Stagnant water with concomitant algae growth, insect breeding and odors;
        3. Discarded debris;
        4. Unnecessary noise; and
        5. Safety hazards created by the facility's operations.
    f. The design, location and construction and the maintenance of all development shall be in a manner that minimizes environmental damage. The developer shall completely restore any environmentally sensitive area or wetland area damaged

during construction. Complete restoration means that the damaged area shall, within two years, be operating as effectively as the natural system did before being destroyed or altered. In designing the site for its ultimate end use, the site shall be graded in such a manner, and development and use shall take place in such a manner, so that there are no point discharges into coastal waters resulting from stormwater runoff and/or from wastewater effluent.

24. Planning Commission recommends that "Tract C", as shown and described by Exhibit "A", approved as conservation use for the protection of wetlands, is designated for inclusion within the Environmentally Sensitive Lands Conservation District and map upon City Council consideration of an amendment to the Sanibel Plan.

**EXPIRATION OF PLANNING COMMISSION ACTION;** In accordance with Land Development Code Section 82-424(f), when a development order is approved with conditions imposed thereon, such conditions shall be satisfied within the time limit specified in the development order issued by the Planning Commission. When such conditions specify requirements to be completed before a development permit is issued, and no particular time limit is specified for satisfaction of the conditions, such conditions must be satisfied within six months after issuance of the development order. Failure to satisfy a condition imposed upon the approval of a development permit, within the time limit specified therefor, or such extended time period as the Planning Commission may approve upon timely application of the permittee, shall cause the development order approving the development permit to be null and void and of no further force or effect.

**EFFECTIVE DATE OF PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-97, all actions of the Planning Commission, including those which constitute final decisions, shall be effective upon the date of filing of the adopted Resolution with the City Manager, or at a later date if provided in the Resolution. However, permits authorized by final decisions shall not be issued until one of the following has occurred: 1) The time for filing an appeal to City Council has elapsed; 2) The applicant and all other persons having appeal rights have filed a written waiver of appeal rights; 3) If an appeal has been timely filed, the City Council has finally disposed of the matter.

**RIGHT TO APPEAL PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-98. Appeals. The applicant is hereby advised that the following persons have the right to appeal a final decision of the Planning Commission adverse to their interests: 1) The applicant; 2) The owner of the property proposed for development; 3) The developer of the property proposed for development; and 4) Any other person residing upon, or owning property within the City, or owning or operating a business within the City, who participated by written comment before or at the Planning Commission hearing or who participated in person or through an authorized agent at the Planning Commission hearing. The appeal shall be filed within 15 days after the date that the Planning Commission decision was filed. The appeal shall be filed with the City manager, and the filing fee shall be paid as a prerequisite to filing.

**DISCLAIMER & PERMIT CONDITION (APPLICABLE ONLY IF FEDERAL OR STATE PERMITS ARE REQUIRED):** Issuance of a development permit by the City does not create any right to obtain a permit from a State or Federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a State or Federal agency or undertakes actions that result in a violation of State or Federal law. If applicable, all other State or Federal permits must be obtained before commencement of the project.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 25TH DAY OF JULY 2023.**

Attest:

~~Scotty Lynn Kelly, City Clerk~~
Anna M. Hicks, Acting

Roger Grogman, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: 7/25/23

Vote of Commission Members:

| | |
|---|---|
| Grogman | Aye |
| Pfeifer | Aye |
| DeBruce | Excused |
| Colter | Aye |
| Nichols | Aye |
| Welch | Excused |
| Symroski | Nay |

**Agenda Item 17**
**Meeting of 10/3/23**

**CITY OF SANIBEL**
**RESOLUTION 23-049**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, UPHOLDING IN ALL RESPECTS THE PLANNING COMMISSION'S DECISION DETAILED IN SANIBEL PLANNING COMMISSION RESOLUTION 23-024 EXCEPT TO MODIFY CONDITION 22, REGARDING DEVELOPMENT PERMIT APPLICATION NO. DP-2021-001803 AND MAJOR SUBDIVISION APPLICATION NO. SPLT 2022-000074 DATED JULY 25, 2023, FOR THE PROJECT KNOWN AS COASTAL CREEK SUBDIVISION AND LOCATED AT 5301-5325 SANIBEL CAPTIVA ROAD; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, on July 25, 2023, the Sanibel Planning Commission conducted a quasi-judicial hearing for consideration of Development Permit Application No. DP-2021-001803 and Major Subdivision Application No. SPLT 2022-00007 (the "Applications"); and

**WHEREAS,** the Applications, filed by Brian Smith with Ensite, Inc. on behalf of owner Buckingham 225 Development, Inc. (the "Applicant"), seek approval to allow for a unified residential housing (cluster housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision, located at 5301-5325 Sanibel Captiva Road, Sanibel; and

**WHEREAS**, Land Development Code Sections 82-421(8) and 82-422 detail the application and notice requirements for development permit consideration by the Planning Commission; and Land Development Code Section 114-106 provides the requirements and procedures for preliminary plats; and

**WHEREAS**, at the conclusion of its July 25, 2023 hearing, the Planning Commission, by a 4-1 vote, approved the Applications together with 24 conditions; and

**WHEREAS**, a Notice of Appeal of Planning Commission Resolution 23-024 was timely filed on August 8, 2023, by Ralph Brookes, Esq., on behalf of the Heron's Landing Homeowners Association of Sanibel, Inc. and six Sanibel residents (the "Appellants"), opposing the approval of the applications with the 24 conditions, as approved; and

**WHEREAS**, pursuant to Land Development Code Section 82-98(d), the City Council's consideration on appeal is limited to whether the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

**WHEREAS**, on appeal, the Appellants argue, among other things, that the Coastal Creek site should have certain additional testing and site remediation performed before the site is developed, as approved; and

**WHEREAS**, the City Council conducted a duly noticed hearing on appeal on September 11, 2023, for which the City Council reviewed and considered the record before the Planning Commission, Planning Commission Resolution 23-024, minutes of the Planning Commission, and the written and oral arguments presented by or on behalf of the Appellants, the Applicant, and Planning Staff; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The above "whereas" recitals are hereby found to be correct and are incorporated herein as part of this Resolution.

**SECTION 2.** The City Council makes the following findings:

(a) The Appellants have standing to appeal and timely filed their appeal to City Council; and

(b) All parties had notice and opportunity to be heard in the appeal; and

(c) No objections were raised to form or procedure of the appeal; and

(d) In approving the Applications, the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

(e) Condition 22 of Planning Commission Resolution 23-024 should be modified to clarify the definition of "excavated soil."

**SECTION 3.** Planning Commission Resolution 23-024 is hereby **UPHELD** in all respects, except Condition 22 is **MODIFIED** to read as follows:

> 22. All excavated soil from the site shall be disposed of properly at an off-island location. For this project, "excavated soil" shall include all soil dug up or scraped from predevelopment grade, other than *de minimus* removal of soil for the planting of vegetation or other, similar minor soil disturbances.

**SECTION 4.** This resolution shall take effect immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 3RD DAY OF OCTOBER 2023.**

Attest:

Scotty Lynn Kelly, City Clerk

Richard Johnson, Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: October 3, 2023

Vote of Council Members:

| | |
|---|---|
| Johnson | Aye |
| Miller | Aye |
| Crater | Nay |
| Henshaw | Aye |
| Smith | Aye |

EPA Public Access
Author manuscript
*Environ Toxicol Chem*. Author manuscript; available in PMC 2022 September 01.
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# PFOS in U.S. Ambient Surface Waters: A Review of Occurrence in Aquatic Environments and Comparison to Global Concentrations

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**James R. Justice**,
**Michael C. Elias**,
**Brian Schnitker**,
**Kathryn Gallagher**
US Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Ecological Risk Assessment Branch, Washington, DC, USA

## Abstract

PFOS is one of the dominant PFAS detected in aquatic ecosystems. PFOS has been used in a wide range of industrial and consumer products for decades. The unique properties of PFOS, including its stability and resistance to degradation, have made it highly persistent in the aquatic environment. Due to its persistence, potential toxicity, and occurrence in aquatic ecosystems, interest in PFOS has increased in recent decades. Despite this interest, current information on the environmental distribution of PFOS in ambient surface waters of the United States (U.S) is fairly limited. This critical review summarizes currently available literature on PFOS occurrence in surface waters across the U.S. and highlights existing data gaps. Available data are largely from a handful of study areas with known PFAS manufacturing or industrial uses, with much of the data collected from freshwater systems in eastern states and the upper midwest. Measured PFOS concentrations in surface waters vary widely, over eight orders of magnitude, with the highest concentrations occurring downstream from manufacturing and industrial use plants, areas near aqueous film-forming foams (AFFF) use sites, and sites where PFOS precursors were used in textile treatment. Non-point source related occurrences are highest near urbanized areas with high population densities. Current data illustrates the occurrence of PFOS in surface waters across multiple U.S. states. Additional data are needed to better understand PFOS occurrence in U.S. aquatic ecosystems, particularly in estuarine and marine systems and where monitoring data are not available (e.g., southwestern, central, and western U.S.). Additional PFOS occurrence data would provide valuable information on potential spatial and temporal variability in surface waters, and possible risks posed to aquatic ecosystems.

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*Disclaimer*—The views expressed in this manuscript are those of the authors and do not necessarily represent the views or policies of the U.S. Environmental Protection Agency.

*Supplemental Data*—The Supplemental Data are available on the Wiley Online Library at DOI: 10.1002/etc.xxxx.

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**Keywords**

Perfluoroalkyl Substance (PFAS); Perfluorooctane Sulfonate (PFOS); Fate and Transport; Occurrence; Surface Waters

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## BACKGROUND

Perfluorooctane sulfonate (PFOS), and its salts, belong to the Per- and Polyfluoroalkyl Substances (PFAS) group of chemicals. PFAS are synthetic, organic compounds that consist of a carbon backbone and a unique functional group, such as sulfonate or carboxylic acid ($C_nF_{2n+1}$-R; Ahrens 2011; Buck et al. 2011; Lindstrom et al. 2011; Wang et al. 2017). Specifically, PFOS consists of an eight-carbon backbone and a sulfonate functional group (formula is $C_8F_{17}$ $SO_3^-$; CAS No. 45298–90-6 for anionic form). PFOS, and its salts, have been incorporated into a wide range of consumer and industrial products for decades (since the 1950s), including surface treatments for soil and stain resistance of textiles, paper, metals, pesticides, and are used in applications such as in aqueous film-forming foam (AFFF; Ahrens 2011; Buck et al. 2011; Lindstrom et al. 2011; Ahrens and Bundschuh 2014) and by 2002 the use of PFOS was phased with the exception of a few small applications (i.e., AFFF and hard chrome plating mist suppression) ( (Lindstrom et al. 2011; U.S. EPA 2000).

The manufacture of PFOS started in 1949 with the 3M Company (Paul et al 2009). Prior to 2000, the 3M Company was the major producer of perfluorooctanesulfonyl fluoride (PFOSF also known as POSF), the raw material that undergoes base-catalyzed hydrolysis in the Electrochemical Fluorination (ECF) process to make PFOS, with smaller producers in Europe and Asia (Paul et al. 2009; Lehmler 2005; Lindstrom et al. 2011). In 2000, the 3M Company manufactured approximately 78% of the estimated global PFOSF production (approximately 3,665 tons of 4,650 tons; OECD 2002). The estimated total cumulative production of PFOSF from the 3M Company and other western companies through 2002 is between 44,000 and 96,000 tons. Information on previous and current production of PFOSF from Asia and other production sources is limited (Prevedourous et al. 2006; Smithwick et al. 2006; Paul et al. 2009).

In May 2000, following negotiations between EPA and 3M, the 3M Company agreed to a voluntary phase out and to find substitutes for PFOS chemistry used to produce all but a few small applications (i.e., AFFF and hard chrome plating mist suppression) across their range of products by 2002 (Lindstrom et al. 2011; U.S. EPA 2000). Starting around the same time, a series of Significant New Use Rules (SNUR) were put into place by the EPA to restrict the production and use of chemicals that contain PFOS and its precursors in the U.S. (Lindstrom et al. 2011). Additionally, Canada phased out PFOS, its salts, and precursors (ECCC 2018). In 2009, PFOS and related compounds were listed under Annex B of the Stockholm Convention on Persistent Organic Pollutants; restricting global manufacturing and use of PFOS (OECD 2002; Ahrens 2011). Homologues, neutral precursor compounds, and new classes of PFAS continue to be produced; and therefore, are potential sources of PFOS (Ahrens 2011). The production of PFOS was estimated to be approximately 1,000

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tons from 2002 and onward (Paul et al. 2009). However, while industrialized countries, like the U.S., phased-out the use of PFOS and its precursors, producers in other countries, such as China and Brazil, have scaled up their production to fill remaining demand (Wang et al. 2013). Despite the wide use in an array of industrial and consumer products globally, information on the sources, volumes, and emission of PFOS and its precursors are and have been limited (Paul et al. 2009; Zhang et al. 2016; Ankley et al. 2020).

PFOS is resistant to hydrolysis, photolysis, microbial degradation, and metabolism, making it persistent in aquatic environments (OECD 2002; Ahrens et al. 2011; Buck et al. 2011; Lindstrom et al. 2011). PFOS has been detected in tissues of aquatic organisms and both field and laboratory data show a propensity of PFOS to bioaccumulate and move through aquatic food webs (Houde et al. 2006 and 2011; Giesy et al. 2010). Current toxicity literature reports that PFOS exposures can have adverse effects on a diversity of aquatic organisms (Beach et al. 2006; Giesy et al. 2010). Despite the persistence, toxicity, and potential bioaccumulation of PFOS in the aquatic environment, current information on the environmental distribution of PFOS in surface waters of the U.S. is relatively limited (Ankley et al. 2020).

## SOURCES OF PFOS TO AQUATIC ENVIRONMENTS

Aquatic environments and soil are thought to serve as a reservoir of PFOS, with 42,000 tons emitted to aquatic environments compared to 235 tons released globally into air between 1980 and 2002 (Paul et al. 2009; Rankin et al. 2016). Unlike other contaminants commonly found in aquatic ecosystems, such as metals, PFAS are synthetic compounds with no natural source. Thus, the occurrence of any PFAS compound in the environment is an indication of anthropogenic sources (Ahrens 2011). The occurrence of PFOS in aquatic environments can be attributed to both point and non-point sources, entering aquatic environments from industrial and consumer products during manufacturing, along supply chains, and during product use and/or disposal (Paul et al. 2009; Ahrens 2011; Kannan 2011; Ahrens and Bundschuh 2014). However, quantitative assessments of PFOS production, point and non-point source discharges, and environmental measurements are limited compared to other persistent bioaccumulative pollutants (Ahrens and Bundschuh 2014; Zhang et al. 2016)

Potential point sources of PFOS to the aquatic environment include both industrial facilities and municipal wastewater treatment plants (WWTPs). Additional point sources may include surface water runoff from industrial use sites such has metal plating facilities, areas that have received AFFF applications, landfills, and contaminated soils. Of these, industrial facilities, specifically those for fluorochemical manufacturing and other use facilities, are a primary source of PFOS to aquatic systems (Ahrens et al. 2011; Houtz et al. 2016; Sedlak et al. 2017). Estimated total global releases to water arising from discharge of PFOS during manufacturing from 1970 to 2002 ranged between 230 and 1,450 tons (Paul et al. 2009). Several studies have found increased concentrations of PFOS in municipal WWTP effluent compared to influent (Schultz et al. 2006; Sinclair and Kannan 2006). Schultz et al. (2006) observed an increase of PFOS concentrations following treatment of wastewater using standard technologies in a municipal WWTP. Similarly, Sinclair and Kannan (2006) observed a statistically significant increase (by 227 times ± 119%) of PFOS measured in

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effluent compared to influent from a municipal WWTP that received industrial inputs in New York. These studies indicate conventional municipal WWTP processes (i.e., primary and secondary treatment) may not be effective at removing PFOS and that the degradation of other PFAS may be contributing to the increased concentrations of PFOS in effluent (Schultz et al. 2006; Sinclair and Kannan 2006; Ahrens 2011).

Potential non-point PFOS sources to aquatic environments include: dry and wet atmospheric deposition, discharge of contaminated groundwater from manufacturing sites, runoff from impervious surfaces in urban environments, discharge of contaminated groundwater from use of AFFF, and land application of contaminated biosolids (OECD 2002; Paul et al. 2009; Ahrens et al. 2011; Kannan 2011). Identification of non-point PFOS sources and understanding their relative contribution to aquatic ecosystems can be difficult (Paul et al. 2009; Ahrens 2011). Overall, the presence of non-point PFOS sources and their relative contributions are dependent on the aquatic system, air, groundwater, and soil levels, and nearby land uses. For example, concentrations of PFAS, including PFOS, have been influenced by urban land use (Ahrens 2011; Zhang et al. 2016) and overall PFAS concentrations in the environment have been positively correlated with human population density. PFOS was detected in aquatic systems at elevated concentrations (ranging between 97 and 1,371 ng/L) in densely populated areas of the U.S. and Europe (Zhang et al. 2016 and Loos et al. 2009, respectively). Paul et al. (2009) estimated the total global PFOS emissions to air and water from 1970 to 2009 resulting from consumer use and disposal to be between 420 and 2,100 tons.

PFAS are still produced that can transform or degrade into compounds belonging to the perfluoroalkane sulfonic acids (PFSA) family of PFAS, including PFOS (Ahrens 2011). The metabolic transformation of PFAS precursors such as fluorotelomer sulfonates (FTSAs) and perfluoroalkyl sulfonamidoacetic acids (FASAAs), and the degradation of volatile PFAS such as perfluoroalkyl sulfonamidoethanols (FASEs), are known to degrade to PFOS. (Ahrens and Bundschuh 2014; Benskin et al. 2009; Boulanger et al. 2005; Buck et al. 2011; Lange 2000; Lui and Mejia Avendaño 2013; Plumlee et al. 2009; Rhoads et al. 2008; Wang et al. 2017). However, understanding of these transformation processes is limited, and additional work is needed to fully understand these processes and their role as a source of PFOS to aquatic environments (Lau et al. 2007; Buck et al. 2011; Lui and Mejia Avendaño 2013; Wang et al. 2017). The contribution of precursors to the presence of PFOS in the environment is unknown and difficult to quantify. However, these precursors can be a continuous source of PFOS. Particularly, the degradation of precursors may represent a potentially significant known source of PFOS to the aquatic environment, especially since PFOS production within the U.S. has not occurred since 2002 (Buck et al. 2011; Lui and Mejia Avendaño 2013). Nevertheless, PFOS-treated articles, such as fabrics, paper, and other treated materials, are still being imported in the U.S. and end up being released into the environment (Allred et al. 2015; Lang et al. 2016; Lui et al. 2014). The importation of PFOS treated articles is considered as production under the Toxic Substances Control Act (TSCA; U.S. EPA 2020).

PFOS can also be re-emitted to aquatic environments from PFOS sinks such as soil, groundwater, ice, and sediment. Sediment is an important sink of PFOS in the aquatic

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environment (Ahrens et al. 2011). Like other persistent organic pollutants, the movement of PFOS between groundwater, surface water, and sediment is complex and depends on the chemical properties of PFOS and site-specific physiochemical characteristics (including pH, temperature, organic carbon content, and salinity) of the aquatic environment. In general, PFOS may adsorb to sediments (with a $K_d$ greater than 1 mL/g; Giesy et al. 2010). However, this sorption to sediments is limited and PFOS has a $K_{OC}$ of 2.57 indicating that PFOS is relatively mobile in water and the physicochemical characteristics of the sediment ultimately influence the sorption of PFOS (Ahrens et al. 2011; Higgins and Luthy 2006). While the release of PFOS from the transformation of other PFAS and the historical products still in use (e.g., consumer goods manufactured, imported and/or obtained before the PFOS discontinuation and regulations) will continue into the future, the re-emissions of PFOS from existing sinks are assumed to be slowly decreasing since the restrictions and regulations of PFOS have gone into place (Paul et al. 2009; Ahrens 2011; Ahrens and Bundschuh 2014, Washington and Jenkins 2005; Washington et al. 2015).

## METHODS

An understanding of the occurrence of PFOS in ambient surface waters across the U.S. is needed to better identify the environmental relevance of concentrations reported in PFOS toxicity literature. In the present paper, PFOS occurrence data in U.S. ambient surface waters were obtained from publicly available literature, including peer-review journal articles, theses, and government and industry reports. Searches for such literature were conducted by developing a series of search terms related to the chemicals analyzed (e.g., perfluorooctane sulfonate or PFOS, and its salts), waterbody type sampled (e.g., ambient waterbodies such as rivers, streams, wetlands, or lakes), and location of sampled waterbody (which was specific to the U.S.). Databases searched were Science Direct, Google Scholar, and EPA's ECOTOX Database (which includes ambient water concentrations for calculation of bioconcentration and bioaccumulation factors such as those in Burkard (2021); https://cfpub.epa.gov/ecotox/). Additionally, it should be noted that many states in the U.S. have conducted monitoring of PFOS. However, most of the state monitoring data for PFOS are currently not publicly available. Thus, after extensive literature searches (including searches by individual states and on state monitoring databases/websites) and reaching out to individual states, the data presented in this manuscript appear to be inclusive of all publicly available relevant PFOS data.

The identified citations were reviewed for reported ambient surface water concentrations of PFOS, including relevant summary statistics (e.g., minimum, maximum, mean, and median concentrations) reported by the individual study authors. Citations without PFOS data and/or with only drinking or ground water data were not included. Measured PFOS concentrations in ambient surface waters from the identified citations with appropriate information were extracted into a database (Supplemental Data Table S2). For the purposes of this overview and comparison, all concentrations reported here are in nanograms per liter (ng/L). Additional data extracted from the identified citations included: the location of the waterbody sampled (as both the location by state, waterbody name, and GPS coordinates), specific site name or description (if provided in the paper), identification of possible previous exposure to PFOS (as stated by the study authors of the individual papers), the date

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the sample was collected, the number of samples collected and/or analyzed, and analytical methods used to measure PFOS (including reported limits of quantification and limits of detection). Beyond the extraction of the aforementioned data, the identified citations were not further evaluated for data quality. Instead, all relevant PFOS occurrence data for ambient surface waters in the U.S. were captured in this present paper to provide an overview of PFOS occurrence in ambient surface waters across the U.S.

The extracted PFOS occurrence data were included in understanding the current distribution, frequency of detection, and summary statistics (specifically both arithmetic and geometric means, median, and overall range) of reported PFOS concentrations in ambient surface waters across the U.S. The PFOS occurrence data were also evaluated for potential spatial and/or temporal variability of PFOS in ambient surface waters. And lastly, the occurrence and concentrations of PFOS in ambient surface waters across the U.S. were generally compared to those reported globally.

## RESULTS OF PFOS OCCURRENCE IN U.S. SURFACE WATERS

PFOS is one of the most commonly detected PFAS in aquatic ecosystems, along with PFOA (Ahrens 2011; Benskin et al. 2012; Zareitalabad et al. 2013; Dinglasan-Panlilio et al. 2014; Nakayama et al. 2017; Remucal 2019). Despite its wide use, and persistence in the aquatic environment, current information on the distribution of PFOS in ambient surface waters of the U.S. is relatively limited. Available data are largely collected from freshwater systems in eastern states, with most of the current, published PFOS occurrence data focused on a handful of study areas with known manufacturing or industrial uses of PFAS, such as the Mississippi River near a 3M facility, the Great Lakes, the Cape Fear Drainage Basin, and waterbodies near Decatur, Alabama and northern Georgia, along with areas of known AFFF use, such as fire-training areas on military bases (Anderson et al. 2016; Figure 1 and Table 1; Supplemental Data, Figure S1 and Table S1).

Concentrations of PFOS in surface waters vary widely, with observed concentrations ranging over eight orders of magnitude and detected generally between picogram and nanogram per liter. Some sites reported concentrations in the microgram and milligram per liter ranges. (Ahrens 2011; Zareitalabad et al. 2013). Measured surface water concentrations of PFOS in peer-reviewed journal articles and publicly available industry and government reports, range between 0.074 and 8,970,000 ng/L with an arithmetic mean concentration of 786.77 ng/L, a geometric mean concentration of 5.468 ng/L, and a median concentration of 3.6 ng/L. However, it should be noted that the mean and median concentrations reported here were calculated from the reported concentrations for individual samples. And therefore, these mean and median concentrations are not fully representative of all the measured PFOS concentrations in U.S. surface waters. In particular, should be noted that some of the papers (6 papers total without individual concentration data; see Supplemental Data Table S2) only reported summary information such as minimum and maximum concentrations and did not provide more detailed data (e.g., individual sample concentrations or sample site means) in the paper (Figure 2 and Table 1; Supplemental Data, Table S2).

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Consistent with the calculated median of 3.6 ng/L, a majority (90.99%) of measured PFOS concentrations in the current literature fall below 300 ng/L with fewer (9.01%) observed concentrations greater than 300 ng/L (Figure 3). As mentioned in the sources of PFOS section above, in contrast with other contaminants commonly found in aquatic ecosystems PFOS is a synthetic compound with no natural source. Thus, the occurrence of PFOS in surface water is an indication of anthropogenic sources, including consumer and industrial use, long-range transport, atmospheric deposition, surface water runoff, and general persistence in the environment (Ahrens 2011).The higher frequency of PFOS concentrations below 300 ng/L can likely be attributed to: (1) the increased tendency of study designs found in the current literature to include sites with no known previous exposures to PFAS in order to compare results to sites with known previous exposure to PFAS, which is depicted in Figure 4 and (2) it is likely that sites in which the study authors did not specify potential exposure to PFAS could be classified as relatively pristine sites with no known PFOS inputs since the reported measured concentrations indicate that the PFOS concentrations are generally similar to those observed in sites noted to have no known PFOS inputs (Table 2).

Numerous available studies report measured PFOS concentrations in surface waters across the U.S. (Figure 2 and Table 1), some of which are summarized below; however, more detailed information on PFOS occurrence in areas not previously sampled and spatial and temporal variability of PFOS remain limited. Prior to this review, there were few current analyses of spatial variability of PFOS concentrations in surface water across the U.S. (Remucal 2019). This review indicates that PFOS occurrence is widely reported in areas where sampling has been conducted. And that the presence and measured concentrations of PFOS in surface waters are similar between both lotic and lentic and freshwater and estuarine/marine systems, based on the limited data available (Supplemental Data Table S2). Higher PFOS concentrations in surface water tend to be dependent on the presence of a nearby source and generally increase with levels of urbanization. Across the Great Lakes region, PFOS concentrations were higher in the more southern lakes of Erie and Ontario compared to the upstream lakes of Superior, Michigan, and Huron (Table 1; Remucal 2019). Similarly, Zhang et al. (2016) observed that measured PFOS surface water concentrations in urban areas (with mean PFOS concentrations of 4.21 ng/L in urban sites within Rhode Island, New York, and New Jersey) were an order of magnitude higher than those at rural sites (with an mean PFOS concentration of 0.42 ng/L).

Currently, there are insufficient data to quantitatively evaluate temporal trends of PFOS in surface waters across the U.S. (Remucal 2019). However, recent studies have suggested that PFOS concentrations in surface waters with limited sampling sites in northeastern states appear to have generally decreased since the voluntary phase out of PFOS in 2002 (Zhang et al. 2016; Pan et al. 2018). While these more recent studies observed lower measured PFOS concentrations in surface waters compared to those reported in earlier reports (Hansen et al. 2002; Nakayama et al. 2007), few studies have measured PFOS concentrations from the same sampling locations over time. However, it appears that eight studies (six focused on the Great Lakes and two in New York on the Hudson River; Table 1) measured PFOS in the same waterbody over time (Supplemental Data, Table S2 and Figure S1). Thus, the observed lower concentrations reported in recent literature could be due to trends of

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PFOS concentrations decreasing since the 2002 PFOS phaseout, differences in sampling site locations, and/or advances in analytical methods for detecting PFOS that reduced detection limits. If the dataset is limited to Lake Ontario, which is one of the most well-studied waterbodies for PFOS occurrence in the U.S., data from 2002 to 2010 indicates an apparent decrease in PFOS concentrations over time. This and any future decreases would be likely due to the reduction in PFOS use in manufacturing. However, this downward trend of PFOS concentrations in Lake Ontario surface waters was not statistically significant ($p > 0.05$; Remucal 2019).

### PFOS occurrence and concentrations in the Great Lakes region

The Great Lakes are among the most widely studied waterbodies in the U.S. for PFOS occurrence. However, occurrence data are still relatively limited for this system and were largely collected between 2003 and 2010. Comparisons across the Great Lake system indicate PFOS concentrations are higher in Lakes Erie and Ontario, ranging between 2.8 and 38.5 ng/L and 2.9 and 85.5 ng/L, respectively (Figure 5; Sinclair et al. 2006; Boulanger et al. 2004; De Silva et al. 2011; and Furdui et al. 2009), compared to the more northern Great Lakes. These northern Great Lakes have a maximum reported concentration of 5.46 ng/L in Lake Huron. However, current measured PFOS concentrations in Lakes Huron, Michigan, and Superior were not from sampling sites around urbanized areas (such as Chicago and Detroit) and may not be representative of the potential sources of PFOS related to these areas. The measured concentrations of PFOS in the surface waters of Lakes Huron and Michigan, range between 0.24 and 5.46 ng/L (Table 1; Remucal 2019; Furdui et al. 2008; De Silva et al. 2011) and 0.93 and 3.13 ng/L (De Silva et al. 2011; Simcik and Dorweiler 2013), respectively. In contrast measured PFOS concentrations observed in Lake Superior were considerably lower and range between 0.074 and 0.996 ng/L (Scott et al. 2010; De Silva et al. 2011; Furdui et al. 2011). The higher PFOS concentrations in Lakes Erie and Ontario are likely due to higher levels of industrial activities and urbanization around these lakes (Boulanger et al. 2004; Remucal 2019), and could also be associated with the sampling locations. A mass balance constructed for Lake Ontario by Boulanger et al. (2004) indicated wastewater effluent was the major source of PFOS to the lake. In contrast, inputs from Canadian tributaries and atmospheric deposition of PFOS, and other PFAS that may be transformed into PFOS, were the major contributing sources of PFOS to Lake Superior. Inputs from Canadian tributaries and atmospheric deposition were estimated to contribute 57 and 32% of PFOS inputs into Lake Superior respectively (Scott et al. 2010).

### PFOS occurrence and concentrations in the southeastern U.S.

Measured PFOS concentrations in southeastern U.S. surface waters were similar to those measured in Lakes Erie and Ontario, with the exception of some of the highest concentrations detected in waterbodies near areas with PFOS manufacturing (Figure 6 and Table 1). In 1999, the 3M Company conducted a multi-city study measuring PFOS concentrations across waterbodies with known manufacturing and/or industrial uses of PFOS (3M Company 2001). In the 3M Company's 2001 report, PFOS concentrations from sites with known PFOS discharges were compared to PFOS concentrations measured in waterbodies with no known sources of any PFAS chemical (3M Company 2001). In this comparison study, cities with known PFOS exposure were Mobile and Decatur, Alabama;

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Columbus, Georgia; and Pensacola, Florida. Measured PFOS concentrations ranged from not detected (reported detection limit of 2.5 ng/L; 3M Company 2001) to 41.5 ng/L in the cities with known PFOS discharges (Table 1). These PFOS concentrations were compared to those measured in control cities. These study control cities were Cleveland, Tennessee and Port St. Lucie, Florida and PFOS concentrations ranged from not detected to 137.5 ng/L (3M Company 2001). The PFOS concentrations measured in Cleveland, Tennessee were below the limit of detection (2.5 ng/L[1]) and were lower than the PFOS concentrations observed in the cities with known PFOS exposure, as was expected in the report for the control cities. However, PFOS concentrations around Port St. Lucie, Florida, the other control city, were unexpectedly similar to and at times higher than the waterbodies with known PFOS discharges. The sources of PFOS near Port St. Lucie, Florida remain unknown; however, observed PFOS concentrations suggest the presence of a potential manufacturing/industrial source or the use of AFFF in this area (3M Company 2001).

Water samples were collected from ponds near all of the sampling sites except those in Cleveland, Tennesse. As reported in Table 1, PFOS concentrations in these additional pond sites were similar to those measured in Mobile, Alabama (ranging between 32 and 33 ng/L), lower than those observed in Columbus, Georgia (as PFOS was not detected with a detection limit of 2.5 ng/L), and higher than those measured in Decatur, Alabama (ranging between 108 and 111 ng/L) and in Port St. Lucie, Florida (ranging between 1,830 and 48,200 ng/L). Samples collected from the pond site near Port St. Lucie, Florida had some of the highest measured PFOS concentrations in publicly available literature with the maximum concentration of 48,200 ng/L. In the report, the 3M Company conducted additional sampling at the pond site in Port St. Lucie, Florida and determined that the measured PFOS concentrations at this site were more variable than the initial measurements alone indicated and were lower than the previous measurements, ranging between below detection (i.e., < 2.5 ng/L) and 2,340 ng/L. Aside from the samples collected in Port St. Lucie, Florida, this report demonstrated that measured PFOS concentrations in surface waters tend to be higher in areas with PFOS manufacturing and/or industrial use (3M Company 2001).

In separate studies, PFOS and PFOA concentrations were measured in surface waters by Hansen et al. (2002) near Decatur, Alabama and Konwick et al. (2008) in Georgia. Hansen et al. (2002) studied a stretch of the Tennessee River near Decatur, Alabama and Konwick et al. (2008) focused on the Conasauga River in Georgia, both areas with known PFOS discharge and use. In Hansen et al. (2002), discharge from a fluorochemical manufacturing facility entered the Tennessee River towards the middle of the study area. In contrast, Konwick et al. (2008) compared the PFOS concentrations measured in the Conasauga River with those from sites with no known exposure along the Altamaha River. In both studies, mean PFOS concentrations were higher in the study areas with PFOS sources. Specifically, Hansen et al. (2002) observed mean PFOS concentrations upstream of the fluorochemical manufacturing facility were 30.85 ng/L (ranging between 16.0 and 52.6 ng/L) and were 103.9 ng/L

[1]Limits of detection and quantification differ across the PFOS occurrence literature and is dependent on the specific lab and the analytical methods used in a particular study. Specific limits of detection and quantification provided in the subsequent text for each individual study.

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(ranging between 30.3 and 144 ng/L) downstream of the fluorochemical manufacturing facility. Similarly, Konwick et al. (2008) observed higher measured PFOS concentrations in the Conasauga River, which ranged from below limit of detection (with a limit of detection of 1.5 ng/L) to 321 ng/L, compared to those in the Altamaha River, ranging between 2.6 and 2.7 ng/L. Consistent with the report from the 3M Company summarized above, effluents from manufacturing facilities, WWTP, and carpet mill effluents were determined to be the source of increased PFOS concentrations in both the Tennessee and Conasauga Rivers (Hansen et al. 2002 and Konwick et al. 2008, respectively). These PFOS concentrations are relatively consistent with those measured in Alabama and Georgia as reported by the 3M Company (3M Company 2001).

Nakayama et al. (2007) and Cochran (2015) measured PFAS, including PFOS, in the Cape Fear Drainage Basin in North Carolina and waterbodies on Barksdale Air Force Base in Bossier City, Louisiana, respectively. PFOA and PFOS were found to be the dominant PFAS detected in both studies. Nakayama et al. (2007) detected PFOS in 97.5% of all samples above the limit of quantification of 1 ng/L. PFOS concentrations in the Cape Fear Drainage Basin ranged between < 1 (the lower limit of quantification) and 132 ng/L with a mean concentration of 31.2 ng/L. As in other studies summarized above, lower PFAS concentrations, including PFOS, were found in the upland tributaries and concentrations were highest in the middle reaches of the Cape Fear Drainage Basin, near expected sources. Municipal wastewater treatment plant effluents were identified as a source of PFAS to the study area. AFFF usage at the Department of Defense base in Fayetteville, North Carolina and the land application of biosolids likely contributed as well (Nakayama et al. 2007). Cochran (2015) detected PFOS in 79% of all water samples collected and concentrations ranged between below the limit of quantification (i.e., 10 ng/L) and 7,070 ng/L, with an average concentration of 776.7 ng/L. PFOS concentrations varied in samples collected in Barksdale Air Force Base based on proximity to fire training areas. Cochran (2015) attributed the evaluated PFOS concentrations to run off and ground infiltration of AFFF formally used on the base during firefighting and/or training.

### PFOS occurrence and concentrations in the midwestern U.S.

Similar PFOS concentrations were reported in the publicly available literature for waterbodies in urban areas across the midwestern U.S. Lower PFOS concentrations were reported in areas with no previous PFAS exposure (identified as remote areas by the individual study authors) in the same states (Simcik and Dorweiler 2005; Newsted et al. 2017). In Minnesota, Simcik and Dorweiler (2005) observed PFOS concentrations ranging between 2.4 and 50.4 ng/L in urban areas near Minneapolis and concentrations ranging between less than the limit of quantification of 0.29 ng/L and 1.2 ng/L were observed in remote areas in northern Minnesota (Table 1). Additionally, Newsted et al. (2017) reported an average PFOS concentration of 528.9 ng/L (ranging between below limit of quantification and 18,200 ng/L; limit of quantification not provided) in surface waters collected from the Upper Mississippi River near the Minneapolis/St. Paul, Minnesota metropolitan area with a maximum concentration of 18,200 ng/L. The occurrence of PFOS at these urban sites was attributed to the presence of manufacturing source, runoff, and wastewater discharge (Simcik and Dorweiler 2005 and Newsted et al. 2017).

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### PFOS occurrence and concentrations in the northeastern U.S.

Several studies measured PFOS concentrations in surface waters in the northeastern U.S that are comparable to those reported in Minnesota (Sinclair et al. 2006; NJ DEP 2019). Sinclair et al. (2006) measured PFOS in various waterbodies across New York state and observed a median concentration of 756 ng/L in surface waters collected from a Superfund site at Lake Onondaga (ranging between 198 and 1,090 ng/L; Table 1) and attributed these elevated concentrations to several industries located along Lake Onondaga. All other observed concentrations of PFOS in New York, including sites along the Niagara River, the Finger Lakes, Lakes Oneida and Champlain, the Erie Canal, and Hudson River, had lower median PFOS concentrations ranging between 0.8 and 13 ng/L (Table 1; Sinclair et al. 2006).

New Jersey Department of Environmental Protection (NJ DEP) measured PFOS in surface water samples collected from 14 different sites across New Jersey. PFOS concentrations ranged from below the detection limit of 1.0 ng/L to 102 ng/L (NJ DEP 2019). Individual samples collected along Pine, Little Pine, and Mirror Lakes had measured PFOS concentrations of 102, 100, and 72.9 ng/L, respectively. All other observed concentrations of PFOS in New Jersey freshwaters were below 15 ng/L (Table 1). NJ DEP attributed the elevated concentrations of PFOS observed at Pine, Little Pine, and Mirror Lakes to the use of AFFF in training and/or firefighting on the Department of Defense (DoD) Joint Base McGuire-Dix-Lakehurst (NJ DEP 2019).

### PFOS occurrence and concentrations in the western U.S.

PFOS concentrations in surface waters of western U.S. states are generally consistent with the lower-end concentrations (less than 100 ng/L) measured in eastern states; however, the monitoring data for PFOS was limited in the western U.S. Plumlee et al. (2008) measured PFOS and PFOA in Coyote Creek and a tributary of Upper Silver Creek in San Jose, California and determined PFOS concentrations in both Coyote and Upper Silver Creeks to be similar to those measured in eastern states, which are summarized above (Figure 6). Concentrations of PFOS in Coyote Creek ranged from 4.8 to 25 ng/L and concentrations in Upper Silver Creek ranged from 27 to 56 ng/L. The source of PFOS to these aquatic systems was unknown, however, Plumlee et al. (2008) stated that a combination of atmospheric deposition of volatile precursors and surface runoff were likely sources of PFOS to both Coyote and Upper Silver Creeks.

State level data are currently available for Colorado and New Mexico. In particular Colorado Department of Public Health and the Environment (2020) measured PFOS in surface water samples collected from 71 different sampling locations across Colorado. PFOS concentrations ranged from below the detection limit (which varied between 0.42 and 2.50 ng/L across sites) to 54 ng/L. New Mexico Environment Department (2021) also measured PFOS concentrations collected from 67 surface water sampling sites across the state. These PFOS concentrations ranged from below detection limit (which varied between 0.86 and 1.9 ng/L across sites with some limits not reported) to 5,900 ng/L. The elevated concentrations of PFOS were observed in sampling locations near Holloman Air Force Base (New Mexico Environment Department 2021).

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Lastly, Dinglasan-Panlilio et al. (2014) measured PFOS concentrations in surface waters along the Puget Sound in Washington, as well as Clayoquot and Barkley Sounds in British Columbia, Canada. PFOS concentrations measured by Dinglasan-Panlilio et al. (2014) were lower than those observed from sites in eastern states (such as those summarized above for Alabama, Florida, and North Carolina with known manufacturing and/or industrial use of PFOS (Table 1) Concentrations ranging from 0.2 to 5.9 ng/L in Puget Sound and 0.25 to 0.7 ng/L in Clayoquot and Barkley Sound, British Columbia. These concentrations are consistent with those reported in the publicly available literature for areas identified as remote by individual study authors, such as in Minnesota (Simcik and Dorweiler 2005) and in New York (Sinclair et al. 2006), as summarized above. The study authors indicated specific regional sources and atmospheric deposition were likely PFOS sources to these areas with no previous PFAS exposure (Dinglasan-Panlilio et al. 2014).

### Summary of PFOS occurrence and concentrations across the U.S.

Despite the wide use and persistence of PFOS in aquatic ecosystems and unlike the sampling of PFOS in drinking water sources[2], groundwater, and fish tissue monitoring[3], current information on the environmental distribution of PFOS in ambient surface waters across the U.S. remains very limited. Additionally, sampling efforts in other media corroborate that PFOS occurrence in aquatic ecosystems is relatively widespread, particularly in urban areas with detection frequencies of 73% in fish tissue samples from urban rivers and 100% in fish tissue samples from the Great Lakes (Stahl et al. 2014). Similar conclusions were reached in a sampling effort across Canada by Gewurtz et al. (2013), which demonstrated that distribution of PFOS detected in multiple media types (i.e., air, water, sediment, and fish and bird tissue) generally related to urbanization with PFOS concentrations reported in surface water for 23 out of 31 sampling locations.

Present surface water occurrence data are largely collected from freshwater systems in eastern states and in the upper midwest and focused on a handful of study areas with known manufacturing or industrial uses of PFAS or use of AFFF. Current data indicate that PFOS concentrations measured in U.S. surface waters vary widely, across eight orders of magnitude (Table 1). PFOS concentrations in areas with little to no PFAS manufacturing and/or industrial use) range between 0.074 to 23.23 ng/L (Figure 4 and Table 1). This contrasts with PFOS concentrations measured in areas with known PFAS manufacturing, industrial use, and/or application of AFFF, which vary widely and reach up the maximum observed concentration of 8,970,000 ng/L at a site impacted by AFFF (Figure 6 and Table 1). While current PFAS occurrence data illustrate the prevalence and quantify concentrations of PFOS in ambient surface waters across the U.S., additional data, particularly in central, southwestern, and western freshwaters as well as saltwater systems, is needed to better understand PFOS occurrence in aquatic ecosystems across the U.S.

[2]EPA's database for the Unregulated Contaminant Monitoring Rule (UCMR) that includes data for treated surface waters, (https://www.epa.gov/dwucmr)

[3]EPA's National Rivers and Streams Assessment (NRSA; https://www.epa.gov/national-aquatic-resourcesurveys/ncca) and the Great Lakes Human Health Fish Tissue Study component of the EPA National Coastal Condition Assessment (NCCA/GL)

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## COMPARISON OF PFOS OCCURRENCE IN THE U.S. TO GLOBAL AMBIENT SURFACE WATERS

Similar surface waters in the U.S., generally PFOS and PFOA were the most commonly detected PFAS in surface waters around the world (Ahrens 2011). However, it should be noted that the frequency of PFOS and PFOA detection may be an artifact resulting from regulations of these compounds and the lack of available standardized analytical methods for other PFAS. Generally, on a global scale PFOS concentrations in surface waters generally range between picogram/liter and nanogram/liter with some concentrations in the milligram/liter range. PFOS concentrations in the U.S. were comparable to those reported in studies with sampling sites in other countries. Global surface water PFOS concentrations reported in the public literature ranged between not detected and 2,100,000 ng/L. These global surface water concentrations are summarized below to provide a comparison with those observed in the U.S.

In Canada elevated PFOS concentrations in surface waters generally occurred in urbanized areas, suggesting urban areas with high population densities contributed to the elevated PFOS concentrations, similar to indications from U.S. data (Gewurtz et al. 2013; Scott et al. 2009). And PFOS was monitored and assessed for locations across Canada from 2006 through 2011, and it was concluded that PFOS posed a risk to the aquatic environment (ECCC 2018). PFOS concentrations measured by Gewurtz et al. (2013) ranged between not detected (with a detection limit of 2 ng/L) and 10 ng/L in surface waters across Canada. PFOS was rarely detected in surface water samples collected from non-urban areas (Gewurtz et al. 2013). In a systematic, cross-Canada study of PFAS in surface waters, Scott et al. (2009) observed PFOS and PFOA as the dominant PFAS detected and that generally PFOS concentrations were higher, overall ranging between < 0.02 and 34.6 ng/L, than PFOA concentrations, which ranged between 0.044 and 9.9 ng/L. These studies indicated PFOS concentrations in Canadian surface waters were lower than those in the U.S., Europe and Asia (Scott et al. 2009). However, PFOS ranged from not detected (with a detection limit of 4 ng/L) to 2,100,000 ng/L in Etobicoke Creek, a tributary to Lake Ontario, after an accidental spill of a fire-retardant foam containing perfluorinated surfactants was released at L.B. Pearson International Airport in Toronto, Ontario in June 2000 (Moody et al. 2002). The elevated concentrations of PFOS measured by Moody et al. (2002) were higher than those measured in U.S. surface waters and are consistent with the presence of elevated concentrations in surface waters near a source of PFOS (Ahrens 2011).

PFOS concentrations measured in surface waters across Europe were similar to those observed in the U.S. Specifically, in a European Union (EU)-wide study of polar organic persistent pollutants, Loos et al. (2009) observed a median PFOS concentration of 6 ng/L in surface waters sampled across a wide range of sampling sites (including contaminated and pristine rivers and streams of various sizes). However, relatively high median PFOS concentrations between 32 (from the Rhine River in Germany) and 1,371 ng/L (from Krka River in Slovenia) were also observed. Mean PFOS concentrations observed by Pan et al. (2018) were similar to those reported in Loos et al. (2009) and across the U.S., with mean surface water concentrations from waterbodies across western Europe, specifically the

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Thames River, Mälaren Lake, and Rhine River, ranging between 3.15 and 13.8 ng/L and a maximum concentration of 18.8 ng/L measured in the Thames River. Kwadijk et al. (2010) reported PFOS concentrations between 4.7 and 32 ng/L in surface water samples collected from 20 sampling locations across the Netherlands. Lastly, similar and some slightly higher PFOS concentrations, with averages ranging between 16 and 449 ng/L, were observed by Huset et al. (2008) in the Glatt Valley Watershed in Switzerland. Like in the U.S. and Canada, concentrations of PFOS in surface waters across Europe were higher in urbanized areas and sources have been attributed to municipal waste water treatment plant effluent, AFFF spills, and fluorochemical manufacturing facilities (Loos et al. 2007 and 2009; Huset et al. 2008; Kwadijk et al. 2010; Ahrens 2011; Pan et al. 2018).

Lastly, like PFOS concentrations observed in Canada and Europe, PFOS occurrence in surface waters across Asia were generally similar to those reported in the U.S., with lower reported maximum concentrations being observed in Asia compared to the U.S. (Xu et al. 2013). In Japan, Saito et al. (2003) observed PFOS concentrations ranging between 0.3 and 157 ng/L with a median of 1.68 ng/L in 142 surface water samples collected from various locations. Similarly, Nguyen et al. (2011) reported PFOS concentrations ranging between 1 and 156 ng/L collected from an urbanized section of the Marina catchment in Singapore. However, PFOS concentrations in more recently collected surface water samples reported by Pan et al. (2018) were lower than those previously reported in Asia from publicly available literature. Median surface water PFOS concentrations from samples collected from the Yangtze (sample size ($n$) = 35), Yellow ($n$ = 15), Pearl ($n$ = 13), Liao ($n$ = 6), Han ($n$ = 6), and Huai ($n$ = 9) Rivers and Chao ($n$ = 13) and Tai ($n$ = 15) Lakes ranged between 1.41 and 8.56 ng/L with the an overall maximum PFOS concentration of 29.7 ng/L in Choa Lake (Pan et al. 2018). Overall, the PFOS concentrations observed in Asia were similar to the lower end of those reported in the U.S.

Overall, these studies show the widespread distribution and variability of PFOS concentrations in surface waters around the world and demonstrate that surrounding land use has a large influence on PFOS concentrations in ambient surface waters. Urbanized areas with high population densities tended to have elevated PFOS concentrations in surface waters (Loos et al. 2007 and 2009; Scott et al. 2009; Ahrens 2011; Gewurts et al. 2013). Like in the U.S., PFOS concentrations in surface waters around the world vary widely and current information on the environmental distribution of PFOS in ambient surface waters around the world is relatively limited.

## CONCLUSIONS

Currently PFOS is one of the most commonly observed PFAS detected in surface waters (Ahrens 2011; Benskin et al. 2012; Zareitalabad et al. 2013; Dinglasan-Panlilio et al. 2014; Nakayama et al. 2017; Remucal 2019). As demonstrated in this review, PFOS has been detected in a number of ambient surface waters across the U.S. and concentrations of PFOS vary widely (over eight orders of magnitude). The occurrence of PFOS in surface waters indicates the presence of an anthropogenic source, such as consumer and/or industrial use and/or atmospheric deposition, surface water runoff or groundwater discharge, and results from the general persistence and mobility of these chemicals in the environment.(Ahrens

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2011). This review indicates that elevated PFOS concentrations are generally associated with a nearby source or urbanization (Table 2). PFOS concentrations measured in areas with known PFAS sources varied widely with a maximum observed concentration of 8,970,000 ng/L (Table 1 and Figure 6A) in comparison to detected PFOS concentrations measured in areas with little or no PFAS sources, which ranged between 0.074 and 23.23 ng/L (Figure 6B). Additionally, some ambient surface water concentrations in the U.S. are within the range of observed toxicity values reported in current literature (with effect concentrations ranging between 28 and 5000,000,000 ng/L; https://cfpub.epa.gov/ecotox/).

As restrictions of PFOS have gone into place, concentrations in ambient surface waters are expected to decrease. Several studies have suggested that PFOS concentrations in U.S. surface waters have decreased since 2002 (Zhang et al. 2016; Pan et al. 2018). Although these studies observed lower measured PFOS concentrations in surface waters compared to those reported in earlier literature (Hansen et al. 2002; Nakayama et al. 2007), to the authors' knowledge, there has not been a systematic sampling effort to measure PFOS concentrations in sites previously sampled or a comparison between analytical methods to confirm the decrease in PFOS concentrations. Recent studies have reported a shift in the PFAS compounds reported in the aquatic environment. Concentrations of shorter-chained PFAS, particularly PFSAs and perfluoroalkyl carboxylic acids (PFCAs), have increased compared to those of PFOS and PFOA (Möller et al. 2009; Pan et al. 2018) as use has switched to shorter chain PFAS. While the shift in PFAS use and manufacturing may result in a decrease in PFOS concentrations entering aquatic environments it will likely take decades or longer for existing sources of PFOS to be reduced to the point that they do not impact water quality in aquatic systems.

Despite the historical wide use, high persistence, and increased public interest in PFAS generally (including PFOS, which is one of the most commonly detected PFAS in surface waters) current information on the distribution of PFOS in aquatic environments across the U.S. is fairly limited and is largely based on studies that have targeted sites where PFAS were known to have been used. However, it should be noted that many states in the U.S. have conducted monitoring of PFOS and most of the state monitoring data for PFOS are currently not publicly available. Thus, the current dataset contains sampling location and study design bias (Figures 1, 3, and 4). Currently, PFOS occurrence data are limited in western states across the U.S., with the existing dataset only including data for California and Washington (Figure 1). Additionally, PFOS occurrence data are limited in marine and estuarine environments. Therefore, both of these areas continue to be PFOS occurrence data gaps in the U.S. Future PFOS sampling efforts should include consideration of filling these data gaps. Additionally, many of the current PFOS occurrence studies in the public literature include numerous sites with no known PFAS exposure in order to compare PFOS concentrations to exposed sites. This general study design may result in a higher frequency of measured PFOS concentrations below 300 ng/L compared to middle, high, and very high concentrations. This tendency may skew the median and mean concentrations of PFOS in ambient surface waters across the U.S. to the lower end of the concentrations. However, based on the great difference between the arithmetic mean concentration of 786.77 ng/L, a geometric mean concentration of 5.468 ng/L, and the median concentration of 3.6 ng/L for measured PFOS concentrations across the U.S. in the currently available public literature,

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the measured PFOS concentrations in ambient surface waters occur over a wide range. Also, the increased frequency of measured PFOS concentrations at sites with no known previous PFAS exposure or sites that were not identified by the individual study authors as either sites with or without previous exposure (Table 2 and Figure 4), may skew the measured PFOS concentrations in U.S. ambient surface waters toward the lower end of the wide range of measured concentrations. To better understand the occurrence of PFOS in ambient surface waters across the U.S, additional data from previously exposed sites and in urban areas, particularly those in areas where little or no data are available, are needed. Specifically, a systematic study focused on measuring PFAS (including PFOS, PFOA and their precursors and shorter chain PFAS) in ambient surface waters across the U.S. is needed to eliminate potential bias from differences in analytical methods, sample collection, and/or location, and to fill in existing data gaps. Filling these data gaps would provide a more robust understanding of the spatial and temporal variability of PFOS occurrence in U.S. ambient surface waters. Given the widespread use of PFAS and the persistence of PFOS in the aquatic environment, a thorough understanding of the total environmental distribution of PFAS in surface waters (particularly of PFOS itself and the volatile compounds that can transform PFSA) is needed to fully understand the occurrence of PFOS in the environment and any potential risks it may pose in aquatic ecosystems.

## Supplementary Material

Refer to Web version on PubMed Central for supplementary material.

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## Data availability statement—

Data, associated metadata, and calculation tools are available from the corresponding author (jarvis.amanda@epa.gov).

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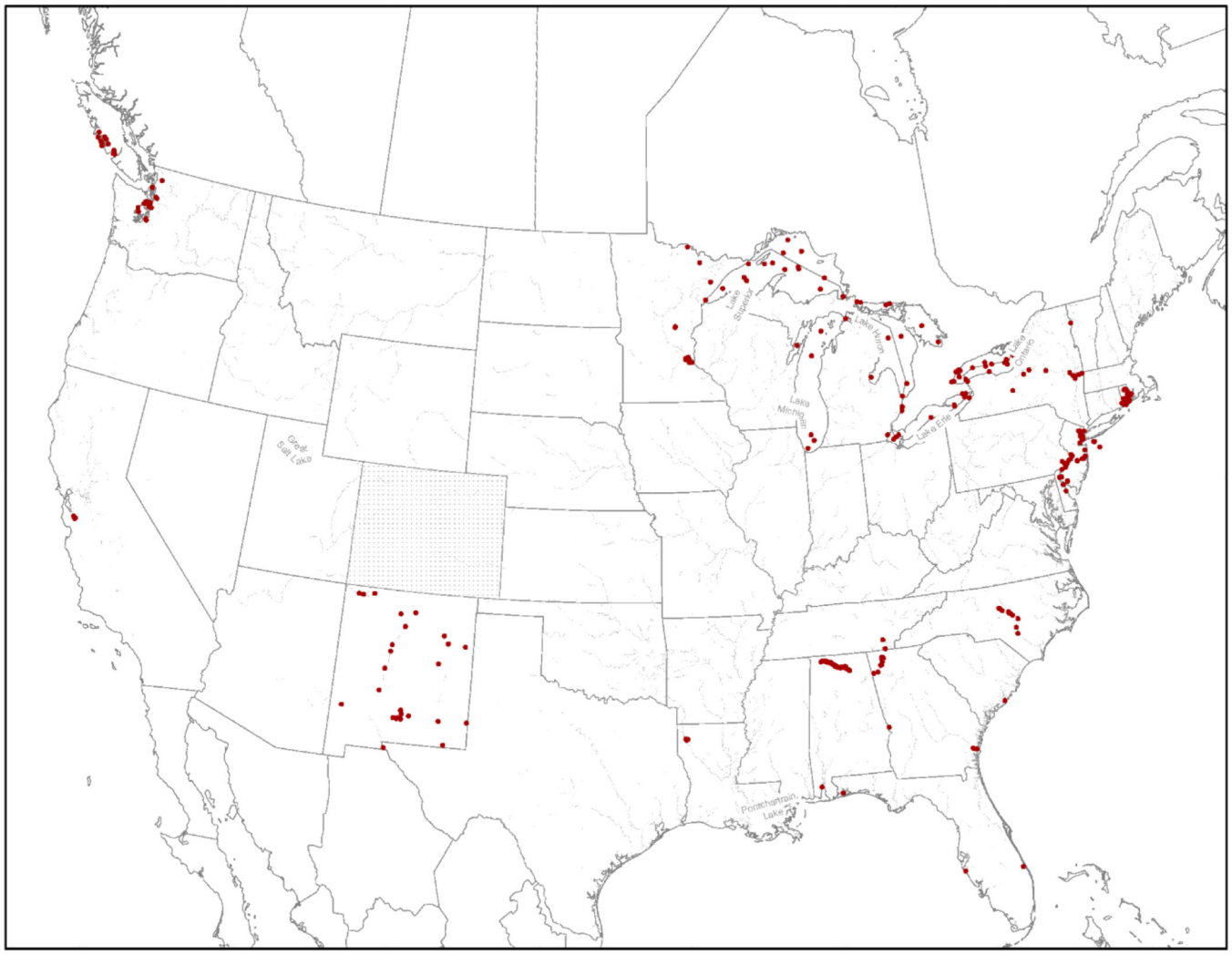



**Figure 1.**

Map indicating sampling locations for perfluorooctane sulfonate (PFOS) measured in surface waters across the United States (U.S.) based on data reported in the current, publicly available literature. Sampling locations for the Colorado data were not available and these data are represented by the dash marks to indicate measured PFOS surface water concentrations are available. Detailed information on sampling locations, including references, coordinates, and sampling site identification numbers and names, provided in Supplemental Data, Figure S1 and Table S1.

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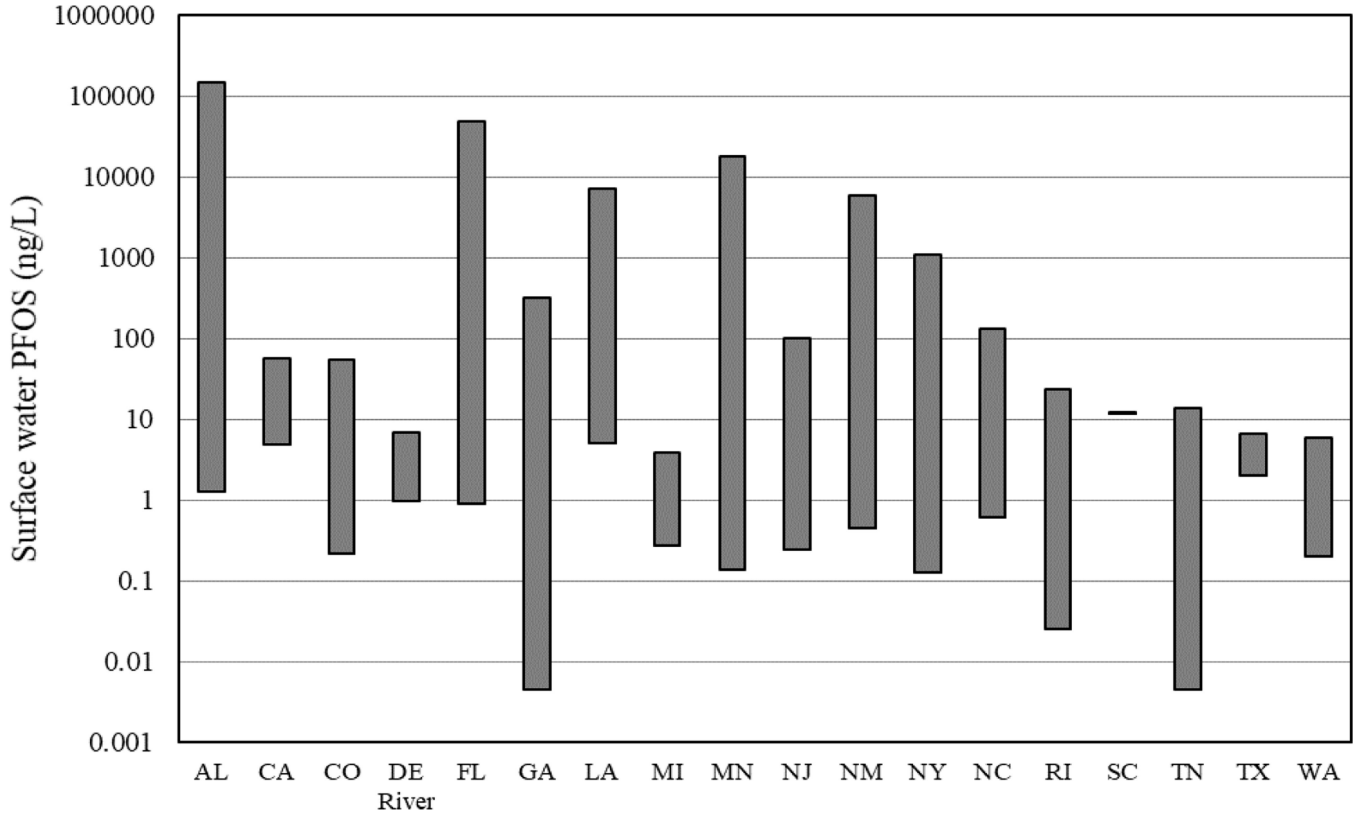



**Figure 2.**

Distribution of the minimum and maximum concentrations (ng/L) of perfluorooctane sulfonate (PFOS) measured in surface waters for each state or waterbody (excluding the Great Lakes) with reported data in the current, publicly available literature and is not necessarily comprehensive of PFOS concentrations in surface waters across each state. The distribution is arranged alphabetically by state and waterbody.

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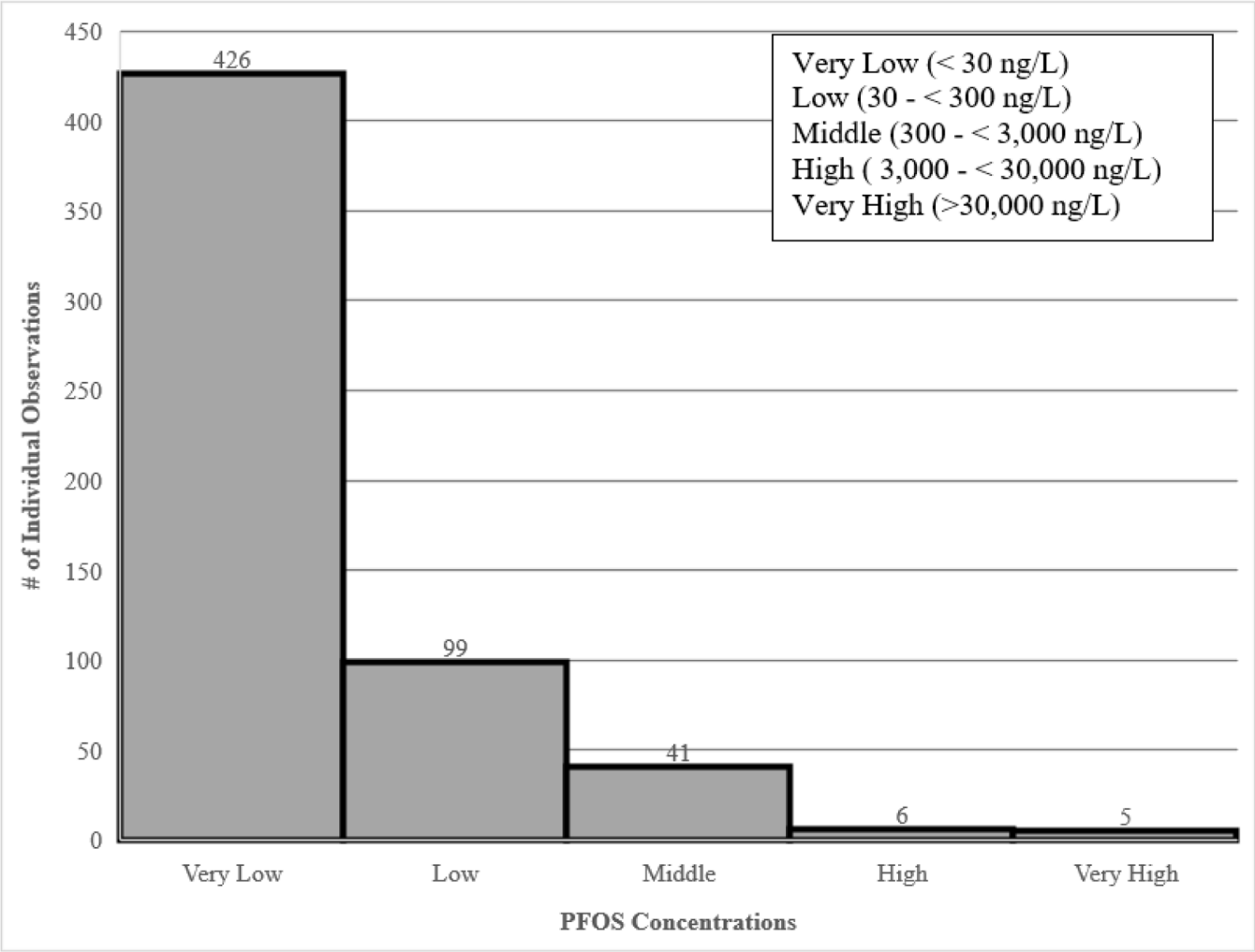



**Figure 3.**

Number of individual observations of measured perfluorooctane sulfonate (PFOS) concentrations that are very low (< 30 ng/L), low (30 – < 300 ng/L), middle (300 – < 3,000 ng/L), high (3,000 – < 30, 0000 ng/L), and very high (> 30,000 ng/L) in ambient surface waters across the United States. The bins of PFOS concentrations were determined from the currently available toxicity literature for PFOS.

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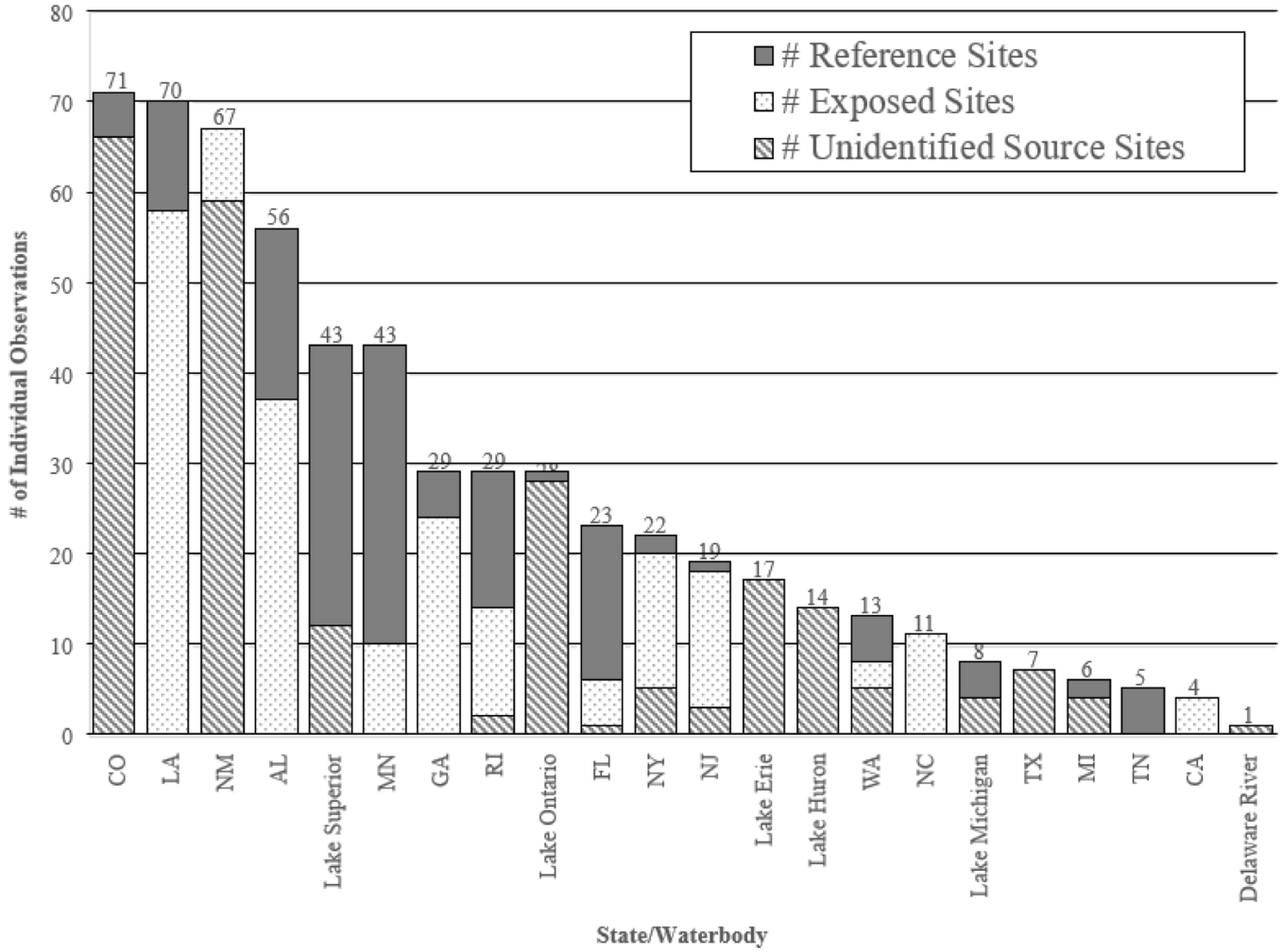



**Figure 4.**

Distribution of individual observations among sites with no known previous exposure to PFASs (identified as Reference Sites by individual study authors, Exposed (sites with known previous exposure to PFASs and also identified as such by individual study authors), and Unidentified (sites in which the study authors did not specify sites as reference or potential exposure to PFASs) ambient surface water sites in the current, publicly available for PFOS occurrence data and is not necessarily comprehensive of PFOS concentrations in surface waters across each state.. The distribution is arranged by highest to lowest number of individual observations and grouped by state or waterbody.

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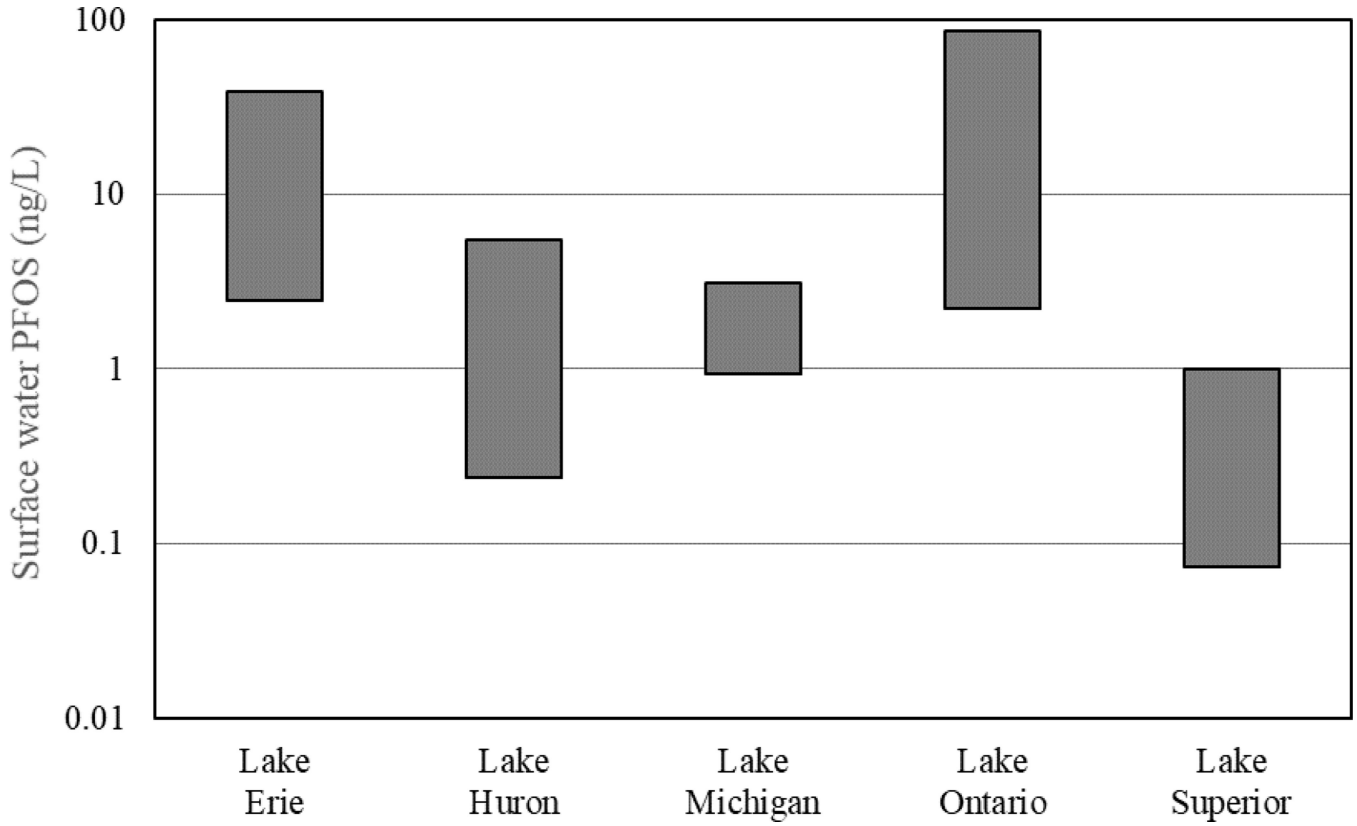



**Figure 5.**

Distribution of the minimum and maximum concentrations (ng/L) of perfluorooctane sulfonate (PFOS) measured in surface water samples collected from the Great Lakes as reported in the current, publicly available literature and is not necessarily comprehensive of PFOS concentrations in surface waters across each state.. This distribution is arranged alphabetically by waterbody.

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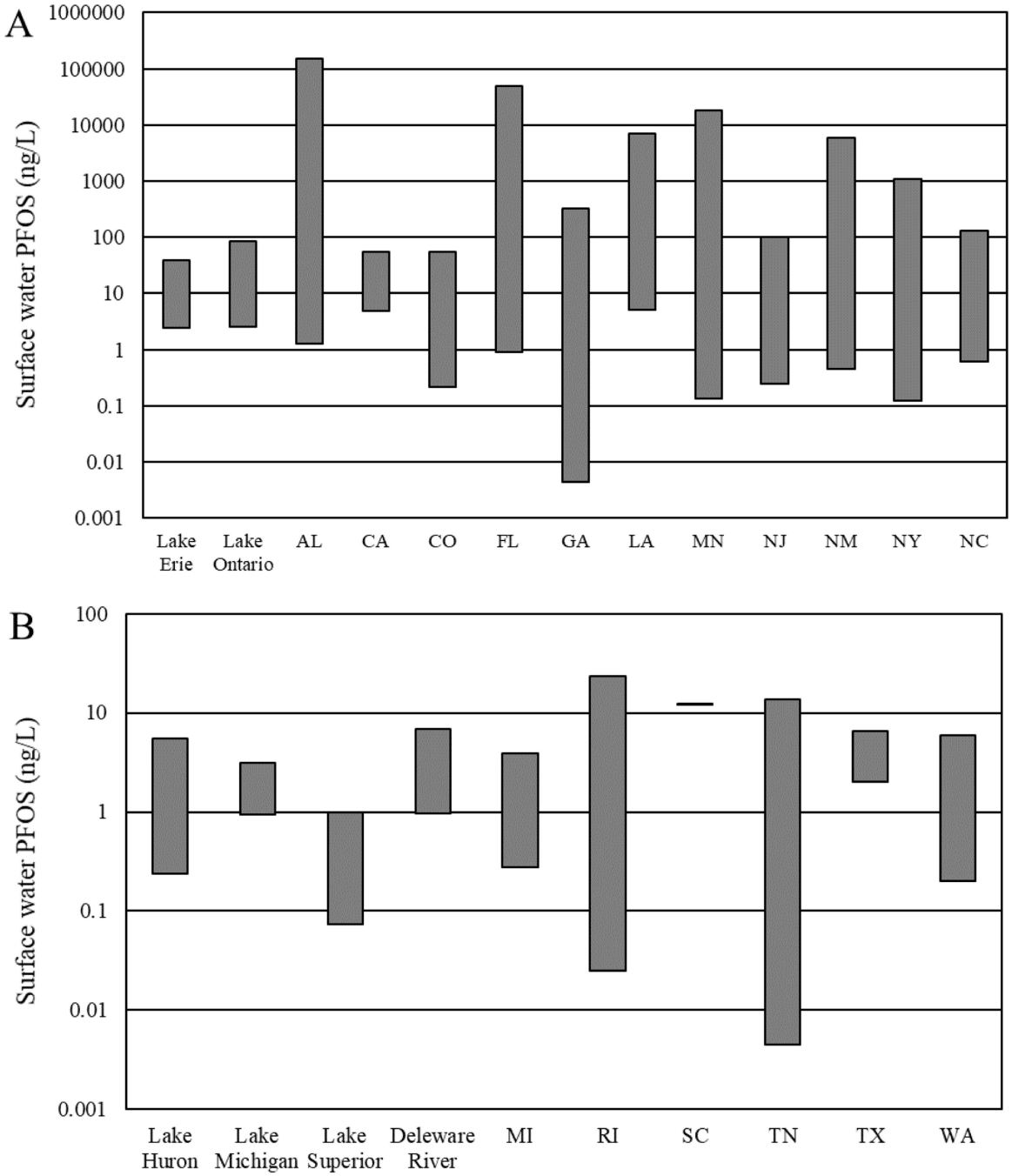



**Figure 6.**

Comparison of relatively high (A; greater than 30 ng/L) and low (B; less than 30 ng/L) maximum perfluorooctane sulfonate (PFOS) concentrations (ng/L) measured in surface water samples collected across the United States (U.S.) as reported in the current, publicly available literature and is not necessarily comprehensive of PFOS concentrations in surface waters across each state.. The relatively high PFOS concentrations were associated

with specific nearby consumer and/or industrial source. Both distributions are arranged alphabetically by waterbody or state.

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**Table 1.**

Current Publicly Available Measured Perfluorooctane Sulfonate (PFOS) Concentrations in Surface Waters Across the United States (U.S.). Additional details, including study specific sampling dates, number of measurements, and limits of detection and quantification, provided in Supplemental Data, Table S2.

| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| | Lake Erie | 3.77 | 3 | 2.8 – 5.5 | Sinclair et al. (2006) |
| | | 31.3 | 32.5 | 21.5 – 38.5 | Boulanger et al. (2004) |
| | | 2.84 | 2.63 | 2.49 – 3.41 | De Silva et al. (2011) |
| | Lake Huron | 4.5 | 4.2 | 4.0 – 5.3 | Furdui et al. (2008) |
| | | 2.25 | 1.96 | 0.239 – 5.46 | De Silva et al. (2011) |
| | | 1.73 | 1.5 | 1.2 – 2.7 | Furdui et al. (2007) |
| | Lake Michigan | 2.03 | 2.03 | 0.93 – 3.13 | Simcik and Dorweiler (2005) |
| | | 2.00 | 1.96 | 1.73 – 2.36 | De Silva et al. (2011) |
| | | not provided | 4.9 | 2.9 – 30 | (Sinclair et al.2006) |
| | Lake Ontario | 55.4 | 59.8 | 16.5 – 85.5 | Boulanger et al. (2004) |
| | | 5.96 | 5.63 | 2.60 – 9.48 | De Silva et al. (2011) |
| | | 8.69 | 6.6 | 3.6 – 37.6 | Furdui et al. (2008) |
| | | 2.20 | not provided | not provided | Houde et al. 2008 |
| | Lake Superior | 0.255 | 0.236 | 0.095 – 0.395 | De Silva et al. (2011) |
| | | 0.233 | 0.3 | 0.1 – 0.3 | Furdui et al. (2008) |
| | | 0.246 | 0.124 | 0.074 – 0.996 | Scott et al. (2010) |
| Alabama | Waterbody near Decatur | 58,016 | 41,027 | 9 – 150,000 | OECD (2002) |
| | Waterbody in Decatur | 2.5 < x < 25 | 2.5 < x < 25 | 2.5 < x < 25 | 3MCompan y (2001) |
| | Pond in Decatur | 111 | 111 | 111 | |
| | Waterbody in Mobile | 30.3 | 35.5 | < 25 – 41.5 | 3MCompan y (2001) |
| | Pond in Mobile | 32.5 | 32.5 | 32.5 | |
| | Tennessee River (upstream of Baker's Creek) | 30.85 | 29.80 | 16.0 – 52.6 | Hansen et al. (2002) |
| | Tennessee River (downstream of Baker's Creek) | 103.9 | 107.0 | 30.3 – 144 | Hansen et al. (2002) |
| California | Upper Silver Creek | not provided | not provided | 27 – 56 | Plumlee et al. (2008) |
| | Coyote Creek | not provided | not provided | 4.8 – 25 | |
| | Animas River | < 0.48 | < 0.48 | < 0.48 | |
| | Arkansas River | 1.96 | 0.62 | 0.23 – 5.00 | |

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| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| Colorado | Arvada Blunn Reservoir | 0.77 | 0.77 | 0.77 | Colorado Department of Public Health and the Environment 2020 |
| | Barker Reservoir | < 0.49 | < 0.49 | < 0.49 | |
| | Bessemer Ditch | 14.0 | 14.0 | 14.0 | |
| | Big Thompson River | 3.90 | 3.90 | 3.90 | |
| | Blue River | 1.20 | 1.20 | 1.20 | |
| | Boulder Feeder Canal | < 0.45 | < 0.45 | < 0.45 | |
| | Boyd Lake | 1.00 | 1.00 | 1.00 | |
| | Cache la Poudre River | 5.61 | 5.61 | < 0.45 – 11.0 | |
| | Clear Creek | 7.95 | 7.95 | 7.20 – 8.70 | |
| | Colorado River | 0.67 | 0.66 | 0.65 – 0.69 | |
| | Coon Creek | < 0.48 | < 0.48 | < 0.48 | |
| | Eagle River | 0.68 | 0.68 | 0.68 | |
| | East Plum Creek | < 0.43 | < 0.43 | < 0.43 | |
| | Erie Lake | 3.70 | 3.70 | 3.70 | |
| | Fairmount Reservoir | < 2.50 | < 2.50 | < 2.50 | |
| | Fountain Creek | 16.9 | 20.0 | 3.50 −24.0 | |
| | Fraser River | 1.00 | 1.00 | 1.00 | |
| | Gore Creek | 0.98 | 0.98 | 0.98 | |
| | Gunnison River | 0.71 | 0.71 | 0.71 | |
| | Horsetooth Reservoir | 0.51 | 0.51 | 0.51 | |
| | Jackson Creek | < 0.44 | < 0.44 | < 0.44 | |
| | Jerry Creek | < 0.485 | < 0.485 | < 0.48 - < 0.49 | |
| | Kannah Creek Flowline | < 0.49 | < 0.49 | < 0.49 | |
| | Lakewood Reservoir | < 0.45 | < 0.45 | < 0.45 | |
| | Little Fountain Creek | < 0.46 | < 0.46 | < 0.46 | |
| | Maple Grove Reservoir | 10.0 | 10.0 | 10.0 | |
| | Marstron Reservoir | 0.48 | 0.48 | 0.48 | |
| | McBroom Ditch | 4.90 | 4.90 | 4.90 | |
| | Mclellen Reservoir | 1.30 | 1.30 | 1.30 | |
| | Mesa Creek | < 0.49 | < 0.49 | < 0.49 | |
| | Michigan River | < 0.46 | < 0.46 | < 0.46 | |
| | Molina Power Plant Tail | < 0.50 | < 0.50 | < 0.50 | |
| | North Fork Gunnison River | < 0.47 | < 0.47 | < 0.47 | |
| | Purdy Mesa Flowline | < 0.49 | < 0.49 | < 0.49 | |
| | Purgatoire River | 0.47 | 0.47 | 0.47 | |
| | Ralston Reservoir | < 0.46 | < 0.46 | < 0.46 | |
| | Rio Grande | < 0.47 | < 0.47 | < 0.47 | |
| | Roaring Fork River | < 0.50 | < 0.50 | < 0.50 | |

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| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| | San Juan River | < 0.44 | < 0.44 | < 0.44 | |
| | Sand Creek | 30.3 | 30.3 | 6.50 – 54.0 | |
| | Severy Creek | < 0.47 | < 0.47 | < 0.47 | |
| | Somerville Flowline | < 0.48 | < 0.48 | < 0.48 | |
| | South Boulder Creek | 0.50 | 0.50 | 0.50 | |
| | South Platte River | 10.5 | 11.5 | 3.80 – 16.0 | |
| | St. Vrain River | 3.90 | 3.90 | 3.90 | |
| | Strontia Springs | < 0.51 | < 0.51 | < 0.51 | |
| | Taylor River | < 0.45 | < 0.45 | < 0.45 | |
| | Uncompahgr e River (delta) | 0.54 | 0.54 | 0.54 | |
| | Welton Reservoir | 2.60 | 2.60 | 2.60 | |
| | White River | < 0.46 | < 0.46 | < 0.46 | |
| | Yampa River | < 0.47 | < 0.47 | < 0.47 | |
| Delaware, New Jersey, Pennsylvania | Delaware River | 3.98 | 3.5 | 0.97 – 6.92 | Pan et al. (2018) |
| | Waterbody in Pensacola | 16.29 | 2.5 < x < 25 | <25 – 29 | |
| | Pond in Pensacola | 2.5 < x < 25 | 2.5 < x < 25 | 2.5 < x < 25 | |
| | Waterbody in Port St. | 50.83 | 2.5 < x < 25 | < 2.5 – 137.5 | 3MCompan y (2001) |
| Florida | Lucie Small pond in Port St. Lucie[3] | 9,784 | 1,945 | 1,830 – 48,200 | |
| | Sarasota Bay | 0.90 | not provided | not provided | Houde et al. 2006 |
| | Waterbody in Columbus | 59.9 | 55 | 44.6 – 80 | 3Mcompan y (2001) |
| | Pond in Columbus | < 2.5 | < 2.5 | < 2.5 | |
| | Conasauga River | 162.1 | 192 | < 1.5 – 321 | |
| | Altamaha River | 2.63 | 2.6 | 2.6 – 2.7 | Konwick et al. (2008) |
| Georgia | Streams and ponds in Dalton | 70.36 | 70.73 | 10.5–119.5 | |
| | Oostanaula River | 150.3 | 151 | 148 – 152 | Lasier et al. (2011) |
| Louisiana | Waterbodies (locations of concern) near Barksdale A.F.B. | 776.7 | 195.0 | < 10 – 7,070 | Cochran (2015); Lanza et al. (2017) |
| | Reference waterbodies near Barksdale A.F.B. | < 10 | < 10 | < 10 | |
| | Raisin River | 3.5 | 3.5 | 3.5 | Kannan et al. (2005) |
| Michigan | St Clair River | 2.6 | 2 | 1.9 – 3.9 | |
| | Siskiwit Lake | 0.283 | 0.283 | 0.277 – 0.289 | Scott et al. (2010) |
| | Upper Mississippi River | 528l.9 | < 2 | < 2 – 18,200 | Newsted et al. (2017) |
| | Lake of the Isles | 2.47 | 2.47 | 2.47 | |

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| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| Minnesota | Lake Calhoun | 50.4 | 50.4 | 50.4 | Simcik and Dorweiler (2005) |
| | Lake Harriet | 22.1 | 22.1 | 22.1 | |
| | Minnesota River | 9.21 | 9.21 | 9.21 | |
| | Lake Tettegouche | 0.23 | 0.23 | 0.23 | |
| | Lake Nipisiquit | < 0.27 | < 0.27 | < 0.27 | |
| | Lake Loiten | < 0.27 | < 0.27 | < 0.27 | |
| | Little Trout Lake | 1.2 | 1.2 | 1.2 | |
| | Echo Lake Reservoir | < 2 | < 2 | < 2 | |
| New Jersey | Passaic River | 13.1 | 13.1 | 13.0 – 13.2 | NJDEP (2019) |
| | Raritan River | 6.9 | 6.9 | 6.9 | Zhang et al. (2016) |
| | Metedeconk River | 1.65 | 1.65 | < 2 – 2.8 | |
| | Pine Lake | 102 | 102 | 102 | |
| | Horicon Lake | 10 | 10 | 10 | |
| | Little Pine Lake | 100 | 100 | 100 | |
| | Mirror Lake | 72.9 | 72.9 | 72.9 | |
| | Woodbury Creek | 6.4 | 6.4 | 6.4 | |
| | Fenwick Creek | 3.1 | 3.1 | 3.1 | |
| | Cohansey River | < 2 | < 2 | < 2 | |
| | Harbortown Road | 1.93 | 1.93 | 1.93 | |
| | Passaic River | 4.59 | 4.07 | 0.244 – 9.99 | |
| New Mexico | Alamogordo Domestic Water Sys. | < 1 | < 1 | < 1 | New Mexico Environment Department 2020–2021 |
| | Animas River | 0.799 | 0.625 | < 0.89 – 1.5 | |
| | Canadian River | 0.848 | 0.9 | < 0.89 – 1.2 | |
| | Cloud Country Estates WUA | < 0.93 | < 0.93 | < 0.93 | |
| | Gila River | < 0.93 | < 0.93 | < 0.93 | |
| | Holloman AFB Golf Course Pond 1 | 1,220 | 1,220 | 1,220 | |
| | Holloman AFB Golf Course Pond 2 | 878 | 878 | 878 | |
| | Holloman AFB Lagoon G | 310 | 310 | 310 | |
| | Holloman AFB Outfall | 951 | 951 | 951 | |
| | Holloman AFB Sewage Lagoon | 2,200 | 2,200 | 2,200 | |
| | Karr Canyon Estates | < 0.93 | < 0.93 | < 0.93 | |
| | La Luz MDWCA | < 1.3 | < 1.3 | < 1.3 | |
| | Lake Holloman | 4,033 | 4,500 | 1,700 – 5,900 | |
| | Mountain Orchard MDWCA | < 0.93 | < 0.93 | < 0.93 | |
| | Pecos River | 1.223 | 1.50 | <0.94 – 1.70 | |

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| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| New York | Rio Chama | < 0.98 | < 0.98 | < 0.96 – < 1 | Kim and Kannan (2007) |
| | Rio Grande | 1.052 | 0.474 | < 0.465 – 2.90 | |
| | Rio Puerco | 4.35 | 4.35 | 3.10 – 5.60 | |
| | San Juan River | < 1.15 | < 1.15 | < 1.06 – < 1.24 | |
| | Tularosa Water System | 0.723 | 0.723 | < 0.89 – 1.0 | |
| | Washington Park Lake | 1.67 | 1.77 | < 0.25 – 2.88 | |
| | Rensselaer Lake | 7.11 | 6.58 | 5.85 – 9.3 | |
| | Iroquois Lake | not provided | not provided | not provided | |
| | Unnamed lake 1 outside Albany, NY | not provided | not provided | not provided | |
| | Unnamed lake 2 outside Albany, NY | not provided | not provided | not provided | |
| | Niagara River | 5.17 | 5.5 | 3.3 – 6.7 | Sinclair et al. (2006) |
| | Finger Lakes | not provided | 1.6 | 1.3 – 2.6 | |
| | Lake Onondaga | 681 | 756 | 198 – 1,090 | |
| | Lake Oneida | 3.5 | 3.5 | 3.5 | |
| | Erie Canal | 8.37 | 6.4 | 5.7 – 13 | |
| | Hudson River | not provided | 1.7 | 1.5 – 3.4 | |
| | Lake Champlain | not provided | 2.7 | 0.8 – 7.7 | |
| | Lower NY Harbor | 0.755 | 0.755 | 0.755 | Zhang et al.(2016) |
| | Staten Island | 1.66 | 1.66 | 1.66 | |
| | Hudson River | 1.81 | 1.81 | 0.79 – 2.84 | |
| North Carolina | Cape Fear River | 31.2 | 28.9 | < 1 – 132 | Nakayama et al. (2007) |
| Rhode Island | Narragansett Bay | 2.2 | 2.2 | 2.2 | Benskin et al. (2012) |
| | Allen Cove Inflow | 1.20 | 1.20 | 1.20 | Zhang et al.(2016) |
| | Bristol Harbor | 0.508 | 0.46 | 0.437 – 0.626 | |
| | Brook at Mill Cove | 9.80 | 9.80 | 9.80 | |
| | Buckeye Brook | 4.13 | 4.13 | 4.13 | |
| | Chickasheen Brook | < 0.05 | < 0.05 | < 0.05 | |
| | EG Town Dock | 0.735 | 0.735 | 0.735 | |
| | Fall River | 0.238 | 0.238 | 0.238 | |
| | Green Falls River | 0.291 | 0.291 | 0.29 – 0.292 | |
| | Hunt River | 1.48 | 1.48 | 1.48 | |
| | Mill Brook | 3.94 | 3.94 | 3.94 | |
| | Narrow River | 0.298 | 0.264 | 0.176 – 0.488 | |
| | Pawcatuck River | 0.561 | 0.561 | 0.509 – 0.612 | |
| | Pawtuxet River | 2.19 | 2.19 | 2.19 | |
| | Queens River | 0.334 | 0.334 | 0.334 | |

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| State | Waterbody[1] | Arithmetic Mean PFOS Concentration (ng/L)[2] | Median PFOS Concentration (ng/L)[2] | Range of PFOS Concentration (ng/L) | Reference |
|---|---|---|---|---|---|
| | Sand Hill Brook | 1.82 | 1.82 | 1.82 | |
| | Secret Lake - Oak Hill Brook | < 0.05 | < 0.05 | < 0.05 | |
| | Slack's Tributary | 0.777 | 0.777 | 0.777 | |
| | South Ferry Road Pier | 0.161 | 0.161 | 0.161 | |
| | Southern Creek | 3.74 | 3.74 | 3.74 | |
| | Woonasquat ucket River | 14.6 | 14.6 | 5.87 – 23.2 | |
| South Carolina | Charleston Harbor | 12.0 | not provided | not provided | Houde et al. 2006 |
| Tennessee | Waterbody near Cleveland | 2.5 < x < 25 | 2.5 < x < 25 | < 2.5 – < 25 | 3MCompan y (2001) |
| | Conasauga River | <0.009[4] | <0.009[4] | <0.009[4] | Laiser et al.2011 |
| Texas | Rio Grande | 4.17 | 4.1 | 2.0 – 6.5 | New Mexico Environment Department 2020 |
| | Puget Sound | 2.3 | 1.45 | 0.2 – 5.9 | |
| Washington | Clayoquot Sound | 0.32 | 0.3 | 0.25 – 0.4 | Dinglasan- Panlilio et al. (2014) |
| | Barkley Sound | 0.7 | 0.7 | 0.7 | |
| Multiple States (10 Air Force Bases across the continental U.S.) | Surface waters impacted by aqueous film forming foam use | not provided | 2,170 | 8,970,000 (maximum) | Anderson et al. (2016) |

Less than (<) values based on study specific LOD and LOQ values that the study authors reported, LOD = limit of detection and LOQ = limit of quantitation

[1]Name of Waterbody Sampled for PFOS. Name or description of waterbody above is consistent with that provided in cited reference.

[2]Calculation of arithmetic mean and median includes lower of ½ LOD or ½ LOQ, depending on information provided. See full occurrence table in Appendix N for waterbody-specific details.

[3]. Study authors conducted additional sampling of this waterbody but were unable to detect the initial high PFOS concentrations in any of the additional samples.

[4]. Reported as ng/g by the study authors.

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**Table 2.**

Measured Perfluorooctane Sulfonate (PFOS) Concentrations in Reference, Exposed, and Unidentified Surface Waters Sites Across the United States (U.S.). Additional details, including site type based on classification provided in the individual paper, number of measurements, and limits of detection and quantification, provided in Supplemental Data, Table S2.

| Site Classification | Mean PFOS Concentration (ng/L) | Median PFOS Concentration (ng/L) | Range of PFOS Concentration (ng/L) |
|---|---|---|---|
| Exposed | 1,746 | 76 | < LOD – 8,970,000 |
| Reference | 776.94 (7.43)[1] | 1 | < LOD – 51,100 (< LOD – 138)[2] |
| Unidentified | 5.91 | 1.28 | < LOD – 121 |

LOD = limit of detection

[1]Mean including concentrations for pond in Port St. Lucie, Florida, which was classified as a reference site by the study authors. The mean concentration excluding these concentrations (total of 13 individual observations excluded) presented in parentheses.

[2]Range including concentrations for pond in Port St. Lucie, Florida, which as noted under footnote 1 above was classified as a reference site by the study authors. The range excluding these concentrations (total of 13 individual observations excluded presented in parentheses.

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Review

# Poly- and Perfluoroalkyl Substances in Municipal Wastewater Treatment Plants in the United States: Seasonal Patterns and Meta-Analysis of Long-Term Trends and Average Concentrations

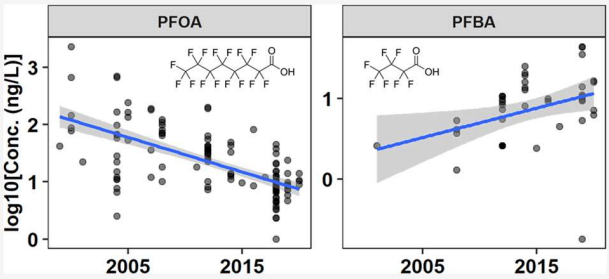
Kyle A. Thompson,* Soroosh Mortazavian, Dana J. Gonzalez, Charles Bott, Jennifer Hooper, Charles E. Schaefer, and Eric R. V. Dickenson*

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**ABSTRACT:** This paper presents an up-to-date meta-analysis assessing per- and polyfluoroalkyl substance (PFAS) concentrations at wastewater treatment plants (WWTPs) as well as changes over time. PFAS concentrations were compiled for WWTPs in the United States from peer-reviewed studies, technical reports, and original data. Perfluorooctanoic acid (PFOA) increased by an average of 6.0 ± 1.6 ng/L from the influents to the effluents of WWTPs, but perfluorosulfonic acid (PFOS) did not significantly change, indicating sorption to sludge is offset by biotransformation of precursor compounds. The occurrence of individual PFAS may vary temporally; for example, perfluoropentanoic acid correlated weakly with seasonal temperatures at a site in Virginia. Wastewater effluent PFOA concentrations decreased at a site in Nevada from 2012 to February 2020 but appeared to increase during the COVID-19 pandemic. Effluent PFOA also declined nationally from 1999 to 2020 by ∼13% per year. Nevertheless, the national mean PFOA concentration was 8.4 ± 0.4 ng/L in data collected from 2013 to 2020 with outliers omitted, indicating persisting low-level occurrence. This would equate to 383 ± 20 kg of PFOA per year continuing to enter the environment via WWTP effluents.




## 1. INTRODUCTION

Poly- and perfluoroalkyl substances (PFAS) are ubiquitous in municipal wastewater and biosolids. Major point sources include PFAS-producing or -using industrial sites, such as papermaking, textile mills, and electroplating.[1−4] However, PFAS have been detected in wastewater even without direct industrial sources, such as in septic tanks and office buildings.[5,6] Similarly, PFAS have been detected in the biosolids of small municipal wastewater treatment plants (WWTPs) without known direct industrial sources.[7] PFAS detected in wastewater and biosolids include not only the two most studied PFAS, perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA), but also short-chain PFAS and polyfluorinated compounds.[5,8−10] It is suspected that PFAS in non-industrial wastewater may occur in part due to environmental degradation of polyfluorinated microfibers released by water-resistant clothing during laundry.[11] Another plausible non-industrial source of PFAS in municipal wastewater is human excretion after oral exposure.[12,13] Often, a portion of the PFAS in wastewater effluent can be ascribed to PFAS in the community's tap water.[14,15]

Certain PFAS have been under increasing regulatory scrutiny due to their persistence, bioaccumulation, and toxicity. PFOA has probable links with several toxicological end points, including kidney cancer, testicular cancer, and high cholesterol.[16] PFOS has been linked with reproductive toxicity, immune effects, and kidney toxicity in laboratory animals.[17,18] Biomarker studies have indicated similar effects in humans.[18] PFOA and PFOS have been phased out in the United States under the 2010/2015 PFOA Environmental Protection Agency (EPA) Stewardship Program and replaced with short-chain PFAS, polyfluorinated compounds, and perfluoroethers.[19,20] Shorter-chain alternatives have been utilized due to their shorter half-lives in the human body [e.g., 2.9 years for PFOS but 0.12 year for perfluorobutanesulfonic acid (PFBS)].[21] Less is known about the toxicity of short-chain PFAS, but precaution is warranted on the basis of the similarity of their persistence to that of PFOA and PFOS.[19] PFAS in wastewater effluent may also pose a hazard to aquatic ecosystems. The Australian PFAS National Environmental Management Plan recommends a guideline of 0.23 ng/L PFOS for 99% species protection in aquatic ecosystems.[1022]

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PFAS are poorly removed by WWTPs and conventional drinking water treatment plants.[8,23] In many cases, the concentrations of perfluoroalkyl acids (PFAAs) increase due to the biotransformation or oxidation of polyfluoroalkyl precursor compounds.[23,24] Without appropriate mitigation methods, human exposure could occur from wastewater through de facto and planned potable reuse, or through bioaccumulation into food or leaching into groundwater from biosolid application sites.[2,25−28]

Many studies have quantified PFAS in wastewater effluent[8,23,29,30] or biosolids.[7,31,32] Venkatesan and Halden[9] measured PFAS in five composites of 110 biosolid samples collected from 94 WWTPs in the United States in 2001. However, because of the way the samples were composited, distributions could not be analyzed and sources could not be identified. Furthermore, the types of PFAS observed in biosolids have changed since 2001 due to shifts in manufacturing toward short-chain PFAS.

Armstrong et al.[31] found no significant decline in PFAAs in biosolids at a WWTP in the mid-Atlantic region of the United States from 2005 to 2013.[33] However, because PFOS and PFOA were gradually phased out by different producers from 2002 to 2015, these two studies may have occurred too soon to observe any resulting changes in PFAS in biosolids.[34,35] Houtz et al.[36] found two short-chain PFAS, perfluorobutanoic acid (PFBA) and perfluorohexanoic acid (PFHxA), increased in the effluent of WWTPs in the San Francisco Bay Area between 2009 and 2014, but the sample size was limited ($n$ = 6).[37] Arvaniti and Stasinakis[38] thoroughly reviewed occurrence studies for PFAS in wastewater and biosolids in 2015, but new data have emerged in the six years since.[1,25,39−48]

A comprehensive estimate of national average PFAS concentrations in WWTPs would have several uses and benefits. For one, WWTPs could compare their influent PFAS concentrations to the average to determine whether they are representative of baseline residential wastewater concentrations, or likely coming from an industrial source. PFAS WWTP effluent occurrence data could be compared with de facto reuse data to estimate PFAS exposure via drinking water due to PFAS in effluent.[49] PFAS biosolid concentrations could be used as inputs to models to estimate human exposure through agricultural products from land application sites.[50,51] The historical rate at which PFAS concentrations have changed at WWTPs should be quantified, so older PFAS data can be appropriately omitted or adjusted when conducting literature reviews or meta-analyses. Whether PFAS concentrations in wastewater effluent vary seasonally should also be investigated. This would inform the sample size and sampling frequency in future PFAS monitoring campaigns.

The goal of this meta-analysis was to generate an updated, comprehensive estimate of PFAS in U.S. WWTP influent, effluent, and biosolids. For effluent, which had the most data and over the widest time range, long-term trends were also examined. Seasonal patterns were also investigated at an individual WWTP with a relatively large sample size. To explore the impact of industrial wastewater on the overall average, outliers or WWTPs with stated industrial sources were sometimes omitted.

## 2. METHODS

**2.1. Long-Term Trends (a single WWTP).** Wastewater effluent concentrations of perfluoropentanoic acid (PFPeA), PFHxA, perfluoroheptanoic acid (PFHpA), PFOA, perfluorononanoic acid (PFNA), perfluorodecanoic acid (PFDA), perfluorohexanesulfonic acid (PFHxS), and PFOS were compiled from a WWTP in Nevada from 2012 to 2021 ($n$ = 36 total, $n$ = 22 from 2012 to February 2020). Details about the Nevada WWTP and its sample locations are provided in Text S1 and Figure S1. Some of the PFAS data evaluated for the Nevada site have been published previously,[1,52,53] while some have been collected for ongoing research projects using published methods.[54,55] Linear modeling was conducted in R with the lm() function. To investigate whether the PFOA phaseout was causing on overall trend toward shorter-chain PFAS in effluent, the average PFCA chain length was calculated as

$$L_{av} = \frac{5[PFPeA] + 6[PFHxA] + 7[PFHpA] + 8[PFOA] + 9[PFNA] + 10[PFDA]}{[PFPeA] + [PFHxA] + [PFHpA] + [PFOA] + [PFNA] + [PFDA]} \quad (1)$$

where square brackets denote concentrations in nanomolar.

**2.2. Seasonal Patterns.** Twenty-seven PFAS were monitored every 2 weeks from May 2019 to May 2020 in the secondary effluent of a WWTP in Virginia using published methods ($n$ = 24).[48,55] This WWTP has a design flow of 110000 $m^3$/day (30 MGD) with a five-stage Bardenpho process, and its sewershed has a landfill as a known PFAS source.

Certain PFAS such as PFPeA, PFHxA, PFHpA, and PFOA biotransform from polyfluorinated precursors, such as $n$:2 fluorotelomer alcohols and 6:2 fluorotelomer sulfonic acid (FTSA), which have been observed in wastewater.[39,48,56,57] 6:2 FTSA is known to biotransform from polyfluorinated substances in aqueous film forming foam (AFFF).[38,55,58] The Virginia WWTP has a zero discharge policy toward AFFF, and discharges of AFFF to sewers in general would be unlikely. Nevertheless, it was suspected that 6:2 FTSA might biodegrade from related higher-molecular weight polyfluorinated substances in wastewater. PFBA can also biotransform from the same polyfluorinated precursors as PFPeA and PFHxA[57] but was not evaluated due to the low detection frequency at the WWTP (12.5%). The impact of temperature on polyfluorinated precursor biotransformation rates has not been studied in controlled wastewater microcosms to the best of our knowledge. However, it is well-known that higher temperatures generally facilitate biological activity in WWTPs. Higher summer temperatures have been shown to increase the removal of acesulfame[59] and pharmaceuticals.[60] Tavasoli et al. found higher total measured PFAS concentrations in July than in March.[46]

Thus, it was hypothesized that these five PFAS would have a seasonal pattern caused by variables such as temperature accelerating biotransformation during certain times of year. Single-factor analysis of variance (ANOVA) was conducted with data points categorized into four seasons (winter, spring, summer, and fall). The normality of the PFAS concentrations at the Virginia WWTP was tested using normal probability plots, histograms, skewness, and kurtosis. Single and multiple



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Table 1. Slopes of PFAAs and Average PFCA Chain Lengths over Time (2012 to February 2020) in Wastewater Effluent at a WWTP in Nevada

| parameter | $n$ | predicted concentration in 2012 (ng/L) | slope (ng $L^{-1}$ $year^{-1}$) | SE[a] (ng $L^{-1}$ $year^{-1}$) | $R^2$ | $p$ value |
|---|---|---|---|---|---|---|
| PFPeA | 22 | 17 | 0.15 | 0.44 | 0.006 | 0.73 |
| PFHxA | 22 | 8.8 | 0.19 | 0.22 | 0.034 | 0.41 |
| PFHpA | 22 | 2.2 | −0.10 | 0.033 | 0.30 | 0.0084 |
| PFOA | 22 | 9.4 | −0.73 | 0.079 | 0.81 | $1.2 \times 10^{-8}$ |
| PFNA | 22 | 2.7 | −0.30 | 0.041 | 0.73 | $4.6 \times 10^{-7}$ |
| PFDA | 22 | 1.8 | −0.14 | 0.022 | 0.65 | $5.4 \times 10^{-6}$ |
| PFHxS | 22 | 1.5 | 0.033 | 0.13 | 0.0033 | 0.80 |
| PFOS | 22 | 5.4 | −0.52 | 0.37 | 0.088 | 0.18 |
| average PFCA length[b] | 22 | 6.2 | −0.064 | 0.0094 | 0.70 | $1.4 \times 10^{-6}$ |

[a]SE is the standard error of the slope. [b]The units for average PFCA length are numbers of carbons.

linear correlations between PFAS concentrations and temperature, aerobic solid retention time, and percentage of flow from landfill leachate were investigated in R with the lm() function.

**2.3. National Estimates.** PFAS wastewater influent, effluent, and biosolid data were compiled from peer-reviewed articles searched using Web of Science. Statistical analyses were limited to studies sampling WWTPs in the United States to control for different PFAS practices among countries and so the data could be used for national PFAS emission estimates. Analyses were also limited to studies that reported data for individual WWTPs. Otherwise, (1) WWTPs within studies that reported averages only would be underweighted and (2) the distribution of PFAS concentrations would appear to be narrower than the true distribution. Three studies for wastewater influent or effluent and one study for biosolids were omitted on the basis of this criterion.[5,61−63] If multiple stages of wastewater treatment were sampled, only the final, most treated sample (e.g., disinfected tertiary effluent but not the preceding secondary effluent) was included to avoid double-counting WWTPs.

Sludge, digested sludge, and biosolids were analyzed as a group due to the relatively small sample size and because studies indicate that current full-scale solid handling practices have little impact on PFAS concentrations except for dilution or incineration.[32,64] The protocols if multiple solid samples were collected from different locations in the same WWTP or if the same solid samples were analyzed in multiple studies are described in Text S2.[65−67]

On the basis of this scope, aqueous data were analyzed from 20 peer-reviewed articles,[7,8,25,30,39−41,43−48,68−74] one Water Research Foundation (WRF) technical report,[1] one 3M report,[75] and one state government report.[42] Original data were also included for six WWTPs managed by a single utility in Virginia. The data for biosolids were analyzed from 10 peer-reviewed articles and one 3M report. The combined data set is provided in the second Supporting Information file. Concentrations below the method detection limit (MDL) were assumed to be half of the MDL. Alternatively, concentrations were assumed to be half of the method reporting limit (MRL) or limit of quantitation (LOQ) if the MDL was not reported. The half-MDL approach is considered adequate for summary statistics with <70% censoring and group comparisons with <25% censoring.[76,77] Statistical analyses were conducted for each PFAS for which the sample size was ≥30 and the detection frequency was ≥30% under each set of assumptions. Results for PFOA are shown in the text, and results for other PFAS with sufficient sample size are shown in the Supporting Information. Total U.S. wastewater flow was assumed to be 4.6 $\times 10^{13}$ L/year.[78] The total mass of biosolids was assumed to be $6.51 \times 10^{9}$ kg/year, of which approximately 55% is land applied for agriculture.[79]

Juxtaposing the mean PFAS concentrations with and without major point sources would indicate the relative importance of such sources. This would in turn reveal the limit to which industrial source control could reduce PFAS in wastewater effluent. PFAS concentrations in WWTPs without major point sources were investigated through two approaches. First, WWTPs that were clearly and specifically stated in the cited studies to have industrial PFAS sources were omitted. Due to the limited information available about WWTPs' sewersheds in published studies, industrial PFAS sources were not strictly defined on the basis of industrial categories or confirmed PFAS usage. Rather, the cited references' criteria for defining and reporting industrial PFAS sources to the WWTPs were taken at face value. However, studies might not consistently and clearly report on point sources to the WWTPs, and point sources might be highly dilute or emit PFAS other than the analyte in question. Therefore, a second, data-driven approach was also explored for omitting WWTPs with major industrial point sources. Using Tukey's outlier test (values greater than the 75th percentile plus 1.5 times the interquartile range), the highest outlier was iteratively omitted and the percentiles were recalculated until no high outliers remained.[80−82]

The simplest approach for estimating the mean of concentrations in wastewater or biosolids would be to treat all of the literature data as a simple random sample (SRS). The mean and standard error of the sample would then be treated as a direct estimate of the likely range of the mean of the population (i.e., all U.S. WWTPs). However, this approach would ignore the possibility that certain subpopulations of WWTPs—most critically, those with or without major PFAS point sources—might be over- or underrepresented in the literature data.

Stratified sampling is a statistical method for correcting for differences between the sample and the population in terms of the relative frequency of key subpopulations. For stratified samples, the mean is calculated as

$$\bar{x}_{st} = \sum_{i=1}^{j} w_i \bar{x}_i \tag{2}$$

where $\bar{x}_{st}$ is the mean of the stratified sample, $\bar{x}_i$ is the mean within each stratum, $w_i$ is the weight of each stratum, $j$ is the number of strata, and $w_i$ is the weight assigned to each stratum.



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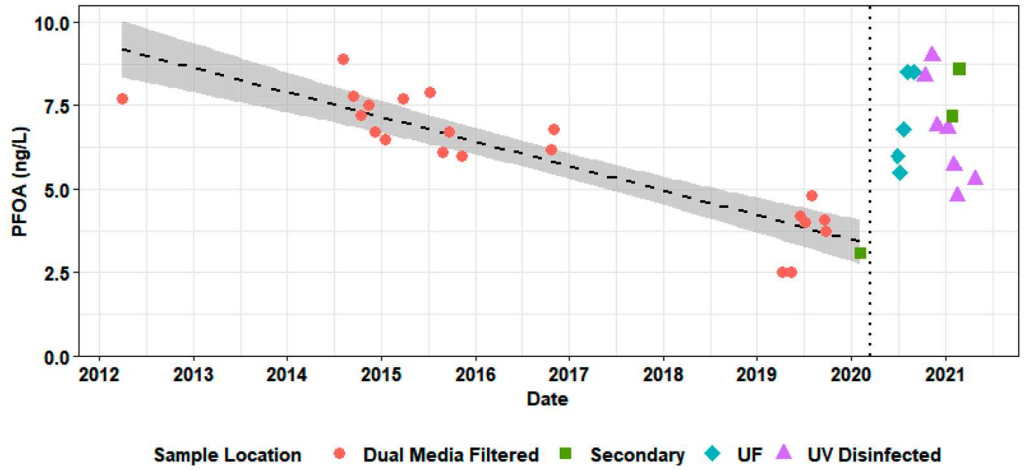



**Figure 1.** Concentrations of PFOA from 2012 to 2021 at the Nevada WWTP ($n$ =36). The dashed line represents the line of best fit of the correlation with time from 2012 to February 2020 ($n$ = 22). The shaded gray area is its 95% confidence band. The dotted vertical line indicates March 17th, 2020, the day closures of non-essential business went into effect in Nevada due to the COVID-19 pandemic. UF is ultrafiltration.

The standard error of the mean of stratified samples is calculated as

$$\mathrm{SE} = \left( \sum_{i=1}^{j} \frac{{w_i}^2 \times \mathrm{Var}_i}{n_i} \right)^{1/2} \quad (3)$$

where $\mathrm{Var}_i$ is the variance within each stratum.[83] However, a limitation of this approach is that it requires knowledge of the proportion of each subpopulation within both the sample and the population. Such information is not always consistently available when conducting meta-analyses.

## 3. RESULTS AND DISCUSSION

**3.1. Long-Term Trends (a single WWTP).** From 2012 to February 2020, PFOA concentrations in wastewater effluent at the Nevadan WWTP significantly declined at a rate of $-0.73 \pm 0.079$ ng $L^{-1}$ $year^{-1}$ ($n$ = 22; $p = 7.8 \times 10^{-8}$) (Table 1 and Figure 1). PFHpA, PFNA, and PFDA significantly declined, as well (Table 1 and Figure S2). The average PFCA chain length decreased by $-0.064 \pm 0.0094$ carbon/year ($n$ = 22; $p = 1.4 \times 10^{-6}$) (Figure S3). PFOS would have been significantly decreasing if not for a high outlier in late 2014 (Figure S4).

However, PFOA concentrations at this WWTP increased during 2020 and then returned closer to 2019 levels by early 2021. This spike in PFOA concentrations coincided with the early stages of the societal response to the COVID-19 pandemic in the United States. The maximum PFOA concentration, 9 ng/L, was measured in November 2020, more than double the expected value of ~4 ng/L based on the 2012−2019 trendline. PFOS (Figure S2) and PFDA (Figure S3) also approximately doubled in 2020 before returning to values similar to those of 2019 by 2021. Flow at this WWTP decreased by 17% in March 2020 due to reduced flow from the hospitality industry,[85] which would not be expected to contribute substantially to PFAS loads. Therefore, the 2-fold increase in long-chain PFAS could be explained partially, but not fully, by reduced dilution from that sector. Changes in consumer product use (e.g., more usage of home cookware, more take-out or drive-through instead of dine-in restaurant experiences, and more washing of informal clothing) may also have contributed to the divergence from the previous trend. Effluent at this WWTP was sampled at different locations within its tertiary treatment after 2019, which could appear to confound this observation. However, the processes between these sample points are known to have a negligible effect on PFAS based on studies at this WWTP (Text S1).[1]

**3.2. Seasonal Patterns (a single WWTP).** Visually, PFPeA had the most plausible seasonal pattern among the PFAS evaluated, with the highest concentrations in the summer (Figure S5). PFPeA correlated with raw influent temperature with a significant $p$ value of $7.97 \times 10^{-3}$ but a low $R^2$ of 0.28 (Figure 2 and Table S1). A single-factor ANOVA

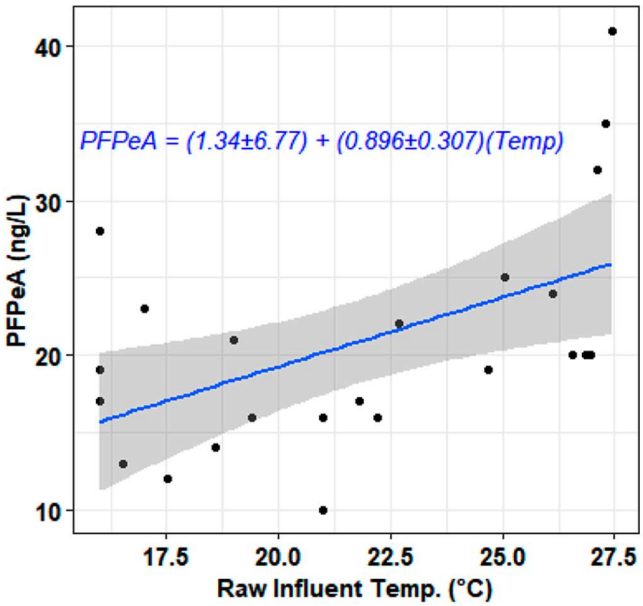



**Figure 2.** Correlation between effluent PFPeA concentration and raw influent temperature at the Virginia WWTP.

was conducted to test whether the mean PFPeA concentration likely differed among the seasons. However, the $p$ value of this ANOVA was not quite significant ($p$ = 0.0501). Histograms and normal probability plots indicated PFPeA concentrations were somewhat right-skewed (Figures S6 and S7). However, the kurtosis and skewness of PFPeA had absolute values of <2, indicating acceptable normality for ANOVA.[86] Further testing

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Table 2. Estimates of PFOA Concentrations and National Emissions in Wastewater Effluent[a]

| method | n | mean concentration (ng/L) | mean concentration SE (ng/L) | estimated emissions (kg/year) | estimated emissions SE (kg/year) |
|---|---|---|---|---|---|
| SRS, all studies | 129 | 68.9 | 19.7 | 3141 | 899 |
| SRS, no stated industrial source | 112 | 50.5 | 10.7 | 2303 | 486 |
| SRS, no outliers | 70 | 8.6 | 0.401 | 391 | 18.3 |
| SRS, 2013−2020 | 68 | 12.8 | 1.58 | 585 | 72.0 |
| SRS, 2013−2020, no outliers | 58 | 8.41 | 0.444 | 383 | 20.2 |
| stratified, 0.1% stated industrial source | 129 | 50.7 | 10.7 | 2309 | 486 |
| stratified, 20% stated industrial source | 129 | 78.4 | 27.7 | 3575 | 1263 |

[a]SE is the standard error. SRS is a simple random sample. See Tables S2−S14 for similar tables of other PFAS. The sample year range is 1998−2020 unless otherwise noted.

at monthly or greater frequencies at other WWTPs is needed to conclude whether the temperature correlation observed here is generalizable, not site-specific or coincidental.

**3.3. National Estimates.** *3.3.1. Wastewater Effluent. 3.3.1.1. All Data.* Considering all literature data, the mean PFOA concentration was 69 ± 20 ng/L (Table 2). This concentration corresponds to total emissions of 3141 ± 899 kg/year, which is within reason compared to the estimated range of 5000−40000 kg/year of total PFOA emissions to water in the United States, Japan, and western Europe prior to 2003 according to Wang et al.[89] However, the PFOA data were not normally distributed, with an extreme right skew and an outlier 165 times higher than the median (Figure S8A). This non-normality indicates a confidence interval might not reflect the true likely range of the mean concentration. Furthermore, the outliers are presumably from WWTPs with major industrial PFAS sources.

*3.3.1.2. Stated Industrial Point Sources Omitted.* Omitting WWTPs with stated industrial sources decreased the mean PFOA concentration to 51 ± 11 ng/L. However, the PFOA concentration distribution remained right skewed with multiple outliers (Figure S8B). This was at least partly because this data subset still contained some WWTPs with major industrial sources. For example, EGLE[42] stated six of 42 sampled WWTPs had industrial PFAS sources but did not state which six.

*3.3.1.3. Tukey Outliers Omitted.* After Tukey outliers had been omitted, the mean PFOA concentration was only 8.6 ± 0.4 ng/L, 6 times lower than the mean relying on references to state industrial influence accurately. Thus, it is apparent that industrially impacted WWTPs are not consistently identified in the literature. After outliers had been omitted, the remaining PFOA data appeared to be normally distributed (Figure S8C). However, this was not the case for PFBS, or PFDA, possibly due to a greater proportion of the data for these analytes being below their MDLs (Figure S11).

*3.3.1.4. Long-Term Trends and Recent Data.* When all WWTPs were included, the PFOA concentration significantly correlated with sample year with a slope of −14 ± 3 ng $L^{-1}$ $year^{-1}$ ($p = 1.2 \times 10^{-5}$) (Figure S14A). PFOS (−18 ± 6 ng $L^{-1}$ $year^{-1}$; $p = 0.0060$) and FOSA (−0.75 ± 0.30 ng $L^{-1}$ $year^{-1}$; $p = 0.016$) also showed significant negative trends (Figure S15). In contrast, PFBA, a short-chain PFAS, was significantly increasing at a rate of 0.98 ± 0.33 ng $L^{-1}$ $year^{-1}$. However, the true long-term trends could be confounded if industrially impacted WWTPs were more likely to be sampled in older or more recent years. When WWTPs with stated industrial sources were omitted, only PFOA had a significant downward trend, declining at a rate of −8.7 ± 1.7 ng $L^{-1}$ $year^{-1}$ ($p = 1.1 \times 10^{-6}$) (Figures S14C and S16). Data subsets with outliers omitted were not analyzed for long-term trends because a data point could plausibly be an outlier due to being relatively old rather than being industrially impacted.

Because the concentration of PFOA in U.S. wastewater effluent is decreasing over time, older studies may no longer be representative of current emissions. Considering the confidence band of the correlation between PFOA and sample year, 2013 was selected as the most distant past year in which mean PFOA concentrations would be expected to be like 2020 (Figure S14C). Therefore, "recent" studies were herein defined as those sampling wastewater effluent in 2013−2020. When the data set was restricted to only recent studies, the mean PFOA concentration was only 13 ± 2 ng/L (Table 2). PFOA and PFNA were significantly decreasing over this more limited time frame (Figure S17).

When Tukey outliers were omitted from the recent data, the mean PFOA concentration was 8.4 ± 0.4 ng/L, significantly lower than with outliers (Table 2). This indicates PFOA industrial sources were still important after 2013. The maximum PFOA concentration during 2013−2020 after omitting outliers was 15 ng/L. Therefore, PFOA concentrations above this level would be considered atypical for recent samples from WWTPs without major PFAS point sources.

Linear regression on log-transformed concentrations showed PFOA significantly declined at an annual rate of 13% (i.e., half-life of 5.0 years) when all data were analyzed and 12% (i.e., half-life of 5.3 years) when WWTPs with stated industrial sources were omitted (Figure S14B and Figure 3). Using the log-transformed correlation without stated industrial sources, the mean PFOA concentration would reach the Illinois drinking water health advisory level of 2 ng/L around 2030.[91]

*3.3.1.5. Stratified Analyses for Industrially Impacted WWTPs.* It would be useful to conduct a stratified analysis to correct for differences in the proportion of industrially impacted WWTPs between the sample and the true population. However, this would require knowledge of the percentage of WWTPs in the United States that are substantially impacted by PFAS-producing or -using industries. Unfortunately, this is difficult to estimate. EGLE[42] sampled PFAS at 42 WWTPs in Michigan, of which six (14%) were industrially impacted. However, that study took place in a relatively industrial state and intentionally focused on larger WWTPs that are simultaneously more likely to contain industrial point sources yet also have a high degree of dilution for any point sources. Hu et al.[2] identified 16 PFAS-producing



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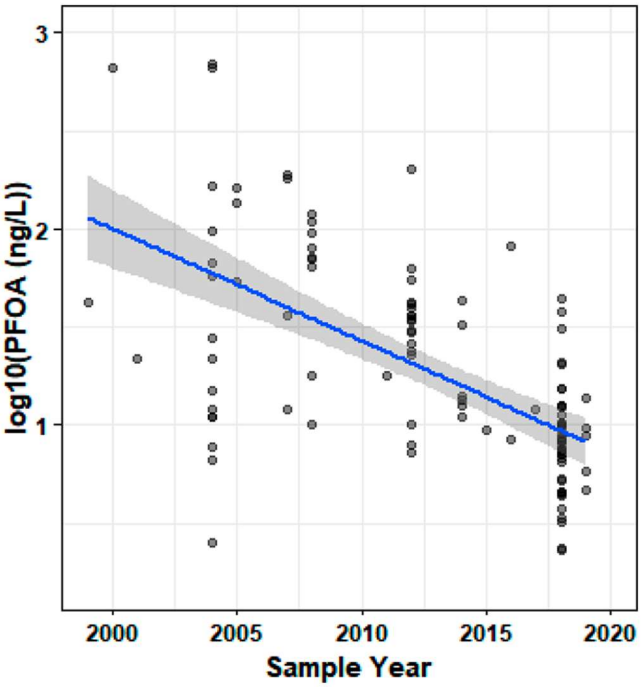



**Figure 3.** Correlations between log-transformed wastewater effluent PFOA concentration and sample year in the United States without stated industrial sources. The blue line represents the line of best fit, and the shaded gray area represents its 95% confidence band.

facilities in the United States, but it is unclear which, if any, of these facilities discharge PFAS to municipal sewers. Hu et al.[2] also identified 533 AFFF-certified airports, which may emit AFFF to the sewer intermittently if at all. The Environmental Working Group (EWG) identified 2444 facilities suspected of using PFAS based on their industrial categories.[92] However, this is likely an overestimate because, for example, not all textile-manufacturing facilities may produce water- or stain-resistant fabric. Furthermore, it is unclear how many of these industrial sites discharge to municipal sewers or directly to the aquatic environment, or how many clusters of sites discharge to the same few sewer systems. The U.S. EPA Chemical Data Reporting Rule lists 28 facilities known to produce or use large amounts of PFAS, but this may be an underestimate because it is based on voluntary reporting.[92]

There were at least 2600 active municipal landfills in the United States in 2020 according to the U.S. EPA.[93] With a few exceptions in arid regions, the leachate from these landfills is discharged to municipal sewers. The total PFOA emission from landfills in the United States in 2013 was estimated to be 52 kg/year.[94] This would be <2% compared to the wastewater effluent estimate using all data (3141 ± 899 kg/year) or <10% compared to the estimate for 2013−2020 (585 ± 72 kg/year) (Table 2). Estimated emissions of other PFAAs from landfills in the same study would also be ≤10% compared to estimated wastewater effluent emissions (Tables S2−S13). The measured PFAS with the highest landfill emission was the polyfluorinated compound 5:3 fluorotelomer carboxylic acid.[94] However, few data were available for this analyte in U.S. wastewater effluent. Thus, landfill leachate is likely a minor contributor to total, national wastewater PFAS emissions. Nonetheless, landfills could cause high PFAS concentrations in site-specific situations, particularly considering landfills may discharge to small WWTPs because they tend to be located outside city centers. An example of a small WWTP with PFAS concentrations meaningfully impacted by landfill leachate was documented by Tavasoli et al.[46]

On the basis of the considerations mentioned above, a sensitivity analysis was conducted assuming the true proportion of the 16000 WWTPs in the United States with substantial industrial impact was as low as 0.1% or as high as 20%. The literature data were treated as a stratified sample with two strata: stated industrial PFAS source(s) or no stated industrial PFAS source. WWTPs with industrial PFAS sources were defined as those clearly stated to be so in the references (i.e., the same assumption as the second row of Table 2). On the basis of these assumptions and weights, the mean PFOA concentration in wastewater effluent would be as low as 51 ± 11 ng/L or as high as 78 ± 28 ng/L (Table 2). These end cases are not put forth as best estimates of the true, current mean PFOA concentration in U.S. wastewater effluent, considering they incorporate data collected before 2013 and the true proportion of industrially impacted WWTPs is likely somewhere in the middle. Rather, these extreme possibilities demonstrated the necessity of better data on the use and disposal of PFAS by industries, such as including some PFAS in the federal Toxic Release Inventory.

*3.3.1.6. Relative Concentrations.* Which PFAA had the highest mean concentration depended on the set of assumptions. PFPeA was the highest including all data at 87 ± 51 ng/L (Table S3). PFOA was the highest omitting known industrial sources at 51 ± 11 ng/L (Table 2). PFHxA was the highest when omitting suspected industrial outliers at 23 ± 2 ng/L (Table S4). PFHxA was also highest when limiting to 2013−2020 data at 48 ± 11 ng/L.

Knowing the typical relative proportions of different PFAS analytes in effluent would have multiple benefits. For one, effluents that significantly deviate from these proportions could be identified as likely industrially impacted. For another, surface waters that match these proportions with equal or lower total concentrations could be identified as likely impacted by de facto reuse. To this end, data were filtered to only WWTPs at which all of the following common PFAAs were analyzed: PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFBS, PFHxS, and PFOS ($n$ = 23). Proportions were calculated on a molar basis and are shown in Figure 4. PFPeA, PFHxA, and PFOA each accounted for ∼25% of the commonly measured PFAAs in wastewater effluent without stated industrial sources.

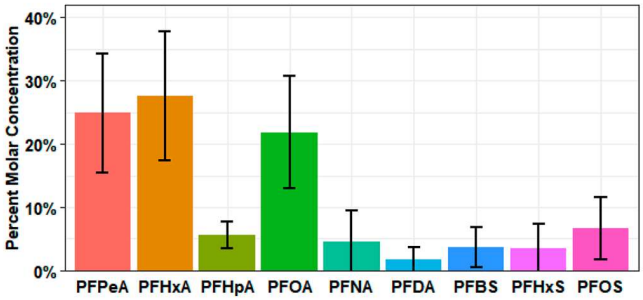



**Figure 4.** Mean molar proportions of PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFBS, PFHxS, and PFOS in wastewater effluents without stated industrial sources ($n$ = 23). Error bars are standard deviations.



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*3.3.1.7. Downstream Surface Water Implications.* For context, PFOA and PFOS concentrations were divided by their Michigan surface water standards, or water quality values (WQVs) (Table S14). Michigan has set lower WQVs for water bodies used for drinking water and higher WQVs for water bodies not used for drinking water. For PFOA, the drinking water and nondrinking water WQVs are 420 and 12000 ng/L, respectively. For PFOS, the drinking water and nondrinking water WQVs are 11 and 12 ng/L, respectively. Under none of the sets of assumptions explored in this study would the mean effluent PFOA concentration exceed its drinking water WQV (Figure 5 and Figure S18). In contrast, mean effluent PFOS would exceed its WQVs by a factor of ≥2 considering all data, data without stated industrial sources, and data for 2013−2020 (Figure 5 and Figure S18). Without Tukey outliers, mean PFOS is 10.0 ± 0.7 ng/L, indicating some non-industrially impacted WWTPs could have effluent PFOS above these WQVs. However, de facto reuse of >50% is rare in the United States.[49] Therefore, considering dilution, it is unlikely municipal wastewater effluent would cause an exceedance of these WQVs without an industrial source.

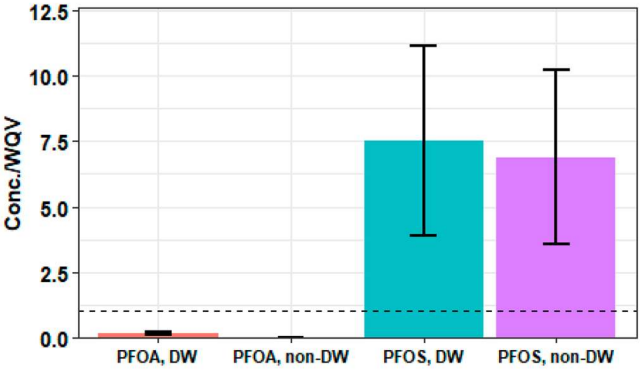



**Figure 5.** Mean concentration divided by Michigan water quality values (WQVs) for drinking water (DW) and nondrinking water (non-DW) water bodies considering all literature data. Error bars are standard errors of the mean. The dashed horizontal line represents 1 or a concentration equal to the WQV.

*3.3.2. Wastewater Influent.* A smaller sample size was available in the literature for PFAS in U.S. wastewater influent, with only PFOA and PFOS having $n \geq 30$ (Table S16). Furthermore, a majority of these PFOA and PFOS data were from a single study in Michigan, so it may not be nationally representative.[42] When all data were included, the mean PFOS influent concentration was 35 ± 14 ng/L, which corresponded to a loading of 1596 ± 638 kg/year ($n$ = 67). When all data were included, the mean PFOA influent concentration was 11 ± 2 ng/L, which corresponded to a loading of 495 ± 101 kg/year ($n$ = 62). This mean influent PFOA concentration was ∼7 times lower than the effluent concentration when all data were included.

The lower mean PFAS in influent may have been partly due to the influent data set having fewer industrially impacted WWTPs and a more recent average sampling year, but it could also be partly from PFOA precursor transformation. The increase in average PFOA in WWTPs with both influent and effluent data was 6.0 ± 1.6 ng/L ($n$ = 62). The increases in PFOA were not normally distributed (Figure S19A), but both a $t$ test ($p$ = 0.00019) and a Wilcoxon signed rank test ($p = 1.5 \times 10^{-7}$) indicated the mean difference was greater than zero. The true PFOA formation could be somewhat greater considering ∼14% of influent PFOA is expected to sorb to sludge.[98] In WWTPs with both influent and effluent data available, PFOS did not significantly increase or decrease from influent to effluent ($t$ test $p$ = 0.73, and Wilcoxon $p$ = 0.94). Considering ∼50% of influent PFOS would be expected to sorb to sludge,[98] it could be PFOS formation and sorption roughly offset each other. Alternatively, the true trend in PFOS concentrations changes through WWTPs may have been obscured by extreme outliers in both directions (Figure S19B).

*3.3.3. Biosolids and Sludge.* Within the scope of this meta-analysis, only PFOS ($n$ = 36) and PFOA ($n$ = 36) had $n \geq 30$ in sludge and biosolids. Due to this smaller sample size, data for solids were not subsetted by industrial impact or sample year like was done for WWTP effluent. However, data were stratified assuming 0.1% or 20% of the known industrial sources, as was done with influent and effluent. Assuming 20% of WWTPs nationwide were industrially impacted increased the estimated mean concentration in influent and effluent. However, for solids, this assumption resulted in a similar estimated mean concentration as treating the data as a simple random sample (Table 3). This was because samples of industrially impacted solids were overrepresented in the database at 22%.

*3.3.4. Limitations.* Differences in analytical methods among the cited studies may have contributed to uncertainty in the estimates of long-term trends and national averages. For example, most studies employed solid phase extraction[8,96] but some used direct injection.[30] Isotope dilution with internal mass-labeled standards is an effective method for correcting for extraction efficiency. One study used external calibration only;[96] some studies used mass-labeled internal standards for a subset of PFAS analyzed,[69] while others used mass-labeled standards for all PFAS.[8] Overall method recoveries varied among studies.[8,96] Generally, sources of imprecision like these would tend to obscure a true correlation rather cause a false positive.[97]

Studies differed in terms of whether they censored data based on MDL,[71] MRL,[8] or LOQ.[69] MRLs and LOQs also differed within and among studies.[8,44,69] Less than 1% of WWTP effluent samples included in this meta-analysis had PFOA below the censored level, so nondetections and different

**Table 3. Estimates of PFOA Concentrations and National Emissions in Biosolids and Sludge[a]**

| method | $n$ | mean concentration (ng/g) | mean concentration SE (ng/g) | estimated load (kg/year) | estimated load SE (kg/year) |
|---|---|---|---|---|---|
| SRS, all studies | 36 | 23.8 | 6.84 | 155 | 44.5 |
| stratified, 0.1% stated industrial source | 36 | 15.3 | 4.30 | 99.7 | 28.0 |
| stratified, 20% stated industrial source | 36 | 22.9 | 6.12 | 149 | 39.8 |

[a]SE is the standard error. SRS is the simple random sample. See Table S17 for a similar table of PFOS.



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censored levels would have little impact on the PFOA statistics discussed in the text. However, nondetections may have increased the uncertainty for other PFAS featured in the Supporting Information; e.g., 25% of PFNA data points were below their censored level.

Insufficient data were available for emerging PFAS [e.g., perfluoroethers and polyfluorinated substances except for *N*-ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA) or 6:2 FTSA] to make statistically sound inferences about long-term trends, seasonal patterns, or national average concentrations in the United States. Furthermore, none of the cited studies stated whether the sampled WWTPs had combined sewers or sanitary sewers only. Therefore, the impact of intentional urban runoff mixing on PFAS concentrations could not be investigated with the literature data.[84,87,88,90,95]

## 4. CONCLUSIONS

Concentrations of long-chain PFAS, particularly PFOA, declined over time in wastewater effluent. Concentrations of short-chain PFAAs, such as PFBA, may be increasing. The long-term trend for PFOA was observed both nationally and at a specific WWTP in Nevada with a relatively high sample size from 2012 to February 2020. However, the COVID-19 pandemic may have caused a divergence from the prior long-term trend at the Nevadan WWTP. Seasonal analysis of PFPeA at a WWTP in Virginia showed a weak correlation with temperature. Mean PFAS concentrations in the literature are dominated by industrially impacted outliers. Historically, industrial discharges to sewers likely caused the majority of the PFAS emissions from WWTPs; more recently, it appears PFAS from domestic wastewater accounts for most of the load. A precise, confident estimate of the total WWTP PFAS emissions, including industrial contributions, would require more information about the location, number, and emissions of PFAS users. PFOA and PFOS may be formed from transformation of precursors and partition to solids within WWTPs. For PFOS, these processes roughly offset each other, while PFOA had a mean net increase of 6.0 ± 1.6 ng/L.

## ■ ASSOCIATED CONTENT

### Supporting Information

The Supporting Information is available free of charge at https://pubs.acs.org/doi/10.1021/acsestwater.1c00377.

Additional meta-analysis methodological details as well as tables and figures particularly for PFAS other than PFOA (PDF)

Data for cited and original wastewater influent, effluent, and biosolids used for this meta-analysis (XLS)

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### Notes

The authors declare no competing financial interest.

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If the subject property has ever been a part or used for the following, there is a potential that significant PFAS contamination is present at the subject property. If your site meets any of the conditions below, then PFAS should be discussed in the Phase I Environmental Site Assessment (if a discussion of PFAS is approved by the client as a non-scope item).

## On-Site Sources

| | |
|---|---|
| **GOVERNMENT & MILITARY INSTALLATIONS USE OF PFAS** (High Risk) | |
| Government/military facilities that utilized AFFF for fire training | ☐ No ☐ Yes |
| Electroplating operations at federal facilities and government-owned, contractor-operated (GOCO) research and development plants | ☐ No ☐ Yes |
| Wastewater treatment plants (WWTP) at federal installations | ☐ No ☐ Yes |
| **COMMERCIAL & INDUSTRIAL USES OF PFAS** (High Risk) | |
| Electroplating<br>Note: Electroplating (specifically hard chromium plating) is an industrial activity where PFAS-containing mist suppressants may have been used | ☐ No ☐ Yes |
| Landfill operations, waste disposal areas, and wastewater treatment plants | ☐ No ☐ Yes |
| Open burning / open detonation of munitions | ☐ No ☐ Yes |
| Agricultural uses (1970s-present) that included application of biosolids/WWTP sludge (that potentially contained PFAS) on bare soils | ☐ No ☐ Yes |
| Refineries and petrochemical industries that utilized AFFF fire training areas (1960s-present) | ☐ No ☐ Yes |
| Public- and private-sector airports (any AFFF utilized on-site for fire training) (1960s-present) | ☐ No ☐ Yes |
| PFAS manufacturer or any chemical industry with a special focus on processing aids in the polymerization of fluoropolymers | ☐ No ☐ Yes |
| Any large past fire events, or any known or suspected use of AFFF on site (1960s-present) | ☐ No ☐ Yes |
| Was the property a fire station (with a fire training area) or have any fire training areas (1960s-present) | ☐ No ☐ Yes |
| Large industrial facility with an AFFF firefighting system that requires yearly testing and discharge of AFFF during testing (1960s-present) | ☐ No ☐ Yes |

| COMMERCIAL & INDUSTRIAL USES OF PFAS<br>High to Moderate Risk (if there are known exposure pathways) | |
|---|---|
| **Section A** | |
| Surface protection of textile, apparel, leather, carpets, and paper | ☐ No ☐ Yes |
| Electronics industry | ☐ No ☐ Yes |
| Plastics and rubber production | ☐ No ☐ Yes |
| Coatings, paints, and varnishes | ☐ No ☐ Yes |
| Munitions and explosives production | ☐ No ☐ Yes |
| Aircraft and heavy equipment manufacturing | ☐ No ☐ Yes |
| Carwash, Laundry, Dry cleaner | ☐ No ☐ Yes |
| Industry listed in the PFAS NAICS/SIC Code Reference Table below | ☐ No ☐ Yes |
| **Section B:** If "Yes" was checked for any of the items in Section A, were the following identified: | |
| Drains, sumps, pits, and/or subsurface conduits that potentially contained/discharged PFAS | ☐ No ☐ Yes |
| Large-scale operation | ☐ No ☐ Yes |
| Smokestacks or aerial dispersion that potentially contained/discharged PFAS | ☐ No ☐ Yes |
| Permitted (NPDES) and potentially unpermitted wastewater discharges that potentially contained/discharged PFAS (e.g. NPDES listing in the database for industrial waste water discharges) water discharges) | ☐ No ☐ Yes |
| Any large containers or drums containing of PFAS (raw or mixture) that may have potentially leaked or discharged to the subsurface | ☐ No ☐ Yes |
| Any known or suspected conditions that would result in a potential release of raw materials or wastes from the site operations | ☐ No ☐ Yes |

## Index Codes

This table provides the first three digits of industries that may have used compounds containing PFAS in their manufacturing or production processes.

To determine three digit code(s) associated with current/former on-site operations, review RCRA listing details in the regulatory database. Take the first three or four digits of the NAICS code(s) listed and look for them in the table below. For example:

**NAICS Code:** 331316 (Aluminum extruded product manufacturing)

**NAICS Code:** 332112 (Nonferrous forging)

Search 331 and 332 in the table below.

In this case, since both codes (331 & 332) are listed, it indicates the business may have used PFAS.

| Index Codes | | | | |
|---|---|---|---|---|
| **3&4-Digit** | **Industry** | | **6-digit** | **Sector** |
| 313 | Textiles | | | |
| 314 | Textile Product | | | |
| 315 | Apparel | | | |
| 316 | Leather | | | |
| 321 | Wood Products | | | |
| 322 | Paper | | | |
| 323 | Printing | | | |
| 324 | Petroleum | | | |
| 325 | Chemicals | | | |
| 326 | Plastics and Rubber | | | |
| 327 | Nonmetallic Mineral Product | | | |
| 331 | Primary Metals | | | |
| 332 | Fabricated Metals | | | |
| | | | 332992 | Small Arms Ammunition |
| | | | 332993 | Ammunition-except small arms |
| 333 | Machinery | | | |
| 334 | Computers/Electronic Products | | | |
| 335 | Electrical Equipment | | | |
| 336 | Transportation Equipment | | | |
| **3&4-Digit** | **Industry** | | **6-digit** | **Sector** |
| 337 | Furniture | | | |
| 339 | Miscellaneous Manufacturing | | | |
| 511 | Publishing | | | |
| 562 | Hazardous Waste | | | |
| | Other | | 111998 | All Other Miscellaneous Crop Farming |
| | Other | | 113310 | Logging |
| | Other | | 211112 | Natural Gas Liquid Extraction |
| | Other | | 212324 | Kaolin and Ball Clay Mining |
| | Other | | 212325 | Clay and Ceramic and Refractory Minerals Mining |
| | Other | | 212393 | Other Chemical and Fertilizer Mineral Mining |
| | Other | | 212399 | All Other Nonmetallic Mineral Mining |

| Index Codes | | | | |
|---|---|---|---|---|
| | Other | | 221330 | Steam and Air-Conditioning Supply |
| | Other | | 488390 | Other Support Activities for Water Transportation |
| | Other | | 512220 | Integrated Record Production/Distribution |
| | Other | | 541710 | R&D in the Physical, Engineering, and Life Sciences |
| | Other | | 541712 | R&D in the Physical, Engineering, and Life Sciences (except Biotechnology) |
| | Other | | 541713 | Research and Development in Nanotechnology |
| | Other | | 541715 | R&D in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology) |
| | Other | | 811490 | Other Personal and Household Goods Repair and Maintenance |
| 2121 | Coal Mining | | 212111 | Bituminous Coal and Lignite Surface Mining |
| 2121 | Coal Mining | | 212112 | Bituminous Coal Underground Mining |
| 2121 | Coal Mining | | 212113 | Anthracite Mining |
| 2122 | Metal Mining | | 212221 | Gold Ore Mining |
| 2122 | Metal Mining | | 212222 | Silver Ore Mining |
| 2122 | Metal Mining | | 212230 | Copper, Nickel, Lead and Zinc Mining |
| 2122 | Metal Mining | | 212231 | Lead Ore and Zinc Ore Mining |
| 2122 | Metal Mining | | 212234 | Copper Ore and Nickel Ore Mining |
| 2122 | Metal Mining | | 212299 | All Other Metal Ore Mining |
| 2211 | Electric Utilities | | 221111 | Hydroelectric Power Generation |
| 2211 | Electric Utilities | | 221112 | Fossil Fuel Electric Power Generation |
| 2211 | Electric Utilities | | 221113 | Nuclear Electric Power Generation |
| 2211 | Electric Utilities | | 221114 | Solar Electric Power Generation |
| 2211 | Electric Utilities | | 221115 | Wind Electric Power Generation |

| Index Codes | | | | |
|---|---|---|---|---|
| 2211 | Electric Utilities | | 221116 | Geothermal Electric Power Generation |
| 2211 | Electric Utilities | | 221117 | Biomass Electric Power Generation |
| 2211 | Electric Utilities | | 221118 | Other Electric Power Generation |
| 2211 | Electric Utilities | | 221119 | Other Electric Power Generation |
| 2211 | Electric Utilities | | 221122 | Electric Power Distribution Transmission and Control |
| 4246 | Chemical Wholesalers | | 424690 | Other Chemical and Allied Products Merchant Wholesalers |
| 4247 | Petroleum Bulk Terminals | | 424710 | Petroleum Bulk Stations and Terminals |

# POTENTIAL PFAS CONTAMINATION CHECKLIST

If you identify any of the following off-site conditions, there is potential for PFAS contamination. If any of the following are identified, then PFAS may need to be discussed in the Phase I Environmental Site Assessment (if a discussion of PFAS is approved by the client as a non-scope item).

## On-Site Sources

| | |
|---|---|
| **1 mile** | |
| DOD, FUDS, or Military Base (that would have utilized AFFF) within 1 mile of subject property (SP)? * | ☐ No ☐ Yes |
| **0.5 mile** | |
| Airport (large enough to have a fire training area) within 0.5 mile of SP? | ☐ No ☐ Yes |
| **1,000 feet** | |
| Large petroleum refinery (that would use AFFF) within 1,000 feet of SP? | ☐ No ☐ Yes |
| Landfill or WWTP within 500 feet of SP? | ☐ No ☐ Yes |

| | |
|---|---|
| **500 feet** | |
| Elevated PFAS detected in well (groundwater or drinking water**) within 500 feet of SP? | ☐ No ☐ Yes |
| Chromium plating facility within 500 feet of SP that has identified or potential contamination (i.e., release or VCP listings in the database report)? | ☐ No ☐ Yes |
| Large-scale industrial facility with large-scale wastewater discharges within 500 feet of SP that has identified or potential contamination (i.e., release or VCP listings in the database report)? | ☐ No ☐ Yes |
| Landfill or WWTP within 500 feet of SP? | ☐ No ☐ Yes |
| **Adjoining** | |
| High risk industrial operations adjoining SP that includes wastewater discharges (NPDES listings) or significant aerial dispersion (air permit listings)? | ☐ No ☐ Yes |

* Check the below link to determine if PFAS are under investigation:

Installations Where DOD is Performing Assessment of PFAS Use/Potential Release

If the site is listed, search online for any publicly available information (i.e., in states like CA, information will be on GeoTracker; in other states, information may not yet be available to the public.

**A drinking water sample may not be representative of groundwater conditions. If elevated drinking water is identified, you may need to confirm its source at the subject property (i.e., public drinking water supply or private drinking water well).

- If public drinking water is the source and it is verified to be from an off-site source, then it does not represent localized groundwater conditions.
- If a private drinking water well is the source, then it will represent groundwater conditions.

# NEXT STEPS

AEI's team of geologists and engineers are experienced in the investigation and remediation of PFAS contaminated properties. Every site will have its unique challenges.

Please visit **www.aeiconsultants.com** or contact your AEI representative for assistance. **1.800.801.3224** | **info@aeiconsultants.com**

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# ADDITIONAL RESOURCES

### Interactive Map of PFAS sites

www.ewg.org/interactive-maps/pfas_contamination/map/

### Military Installations were the DOD is assessing PFAS

media.defense.gov/2021/Mar/23/2002606229/-1/-1/0/INSTALLATIONS-BEING-ASSESSED-FOR-PFAS-USE-OR-POTENTIAL-RELEASE-AS-OF-DEC-31-2020.PDF/INSTALLATIONS-BEING-ASSESSED-FOR-PFAS-USE-OR-POTENTIAL-RELEASE-AS-OF-DEC-31-2020.PDF

https://partner-mco-archive.s3.amazonaws.com/client_files/1524589484.pdf

### AFF

www.michigan.gov/pfasresponse/investigations/firefighting-foam

### SDWIS Federal Reports Search

ordspub.epa.gov/ords/sfdw/sfdw/r/sdwis_fed_reports_public/200

### ITRC

pfas-1.itrcweb.org/
pfas-1.itrcweb.org/fact-sheets/

# ADDITIONAL RESOURCES

## Superfund/NPL

www.epw.senate.gov/public/index.cfm?p=Superfund-Sites-Identified-by-EPA-to-have-PFAS-Contamination

## EPA

www.epa.gov/system/files/documents/2021-10/pfas-roadmap_final-508.pdf
www.epa.gov/chemical-research/status-epa-research-and-development-pfas
www.epa.gov/sites/default/files/2016-05/documents/pfoa_health_advisory_final_508.pdf
www.federalregister.gov/documents/2020/03/10/2020-04145/announcement-of-preliminary-regulatory-determinations-for-contaminants-on-the-fourth-drinking-water
www.federalregister.gov/documents/2021/03/03/2021-04184/announcement-of-final-regulatory-determinations-for-contaminants-on-the-fourth-drinking-water
www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule
ordspub.epa.gov/ords/guideme_ext/f?p=104%3A41
enviro.epa.gov/
www.epa.gov/enviro/tri-search
www.epa.gov/research-states/pfas-science-webinars-epa-region-1-and-state-tribal-partners

## NAICS/SIC

www.census.gov/naics/?48967
www.osha.gov/data/sic-search
pubs.rsc.org/en/content/articlelanding/2020/em/d0em00291g
www.nj.gov/dep/srp/guidance/srra/pfas_handling_industry_sectors.pdf
www.pca.state.mn.us/sites/default/files/p-gen1-22b.pdf

## State regulations

www.saferstates.com/toxic-chemicals/pfas/

## Mass

www.mass.gov/doc/final-pfas-related-changes-to-the-mcp-2019-12-13/download
www.mass.gov/doc/pfas-mcl-revisions-to-310-cmr-2200-clean-version-9-16-2020/download

# Portland Water District Joins Wastewater Multidistrict Law Suit (MDL) Against PFAS Manufacturers

06.05.2024

The Portland Water District (PWD) filed a complaint in the U.S. District Court, against manufacturers of per- and polyfluoroalkyl substances (PFAS) chemicals, 3M, DuPont, and others. The suit seeks to recover costs associated with PFAS mitigation in wastewater treatment, including treatment byproducts, effluent, and biosolids.

Protecting public health, safety, and the environment is PWD's top priority. By taking legal action against manufacturers of PFAS, PWD is holding accountable those responsible for pollution," stated PWD's General Manager Seth Garrison.

PFAS are persistent, toxic, and bioaccumulative compounds that are found in numerous products. They have been found virtually everywhere in the environment. PFAS contamination impacts both surface water (lakes, rivers, oceans, etc.) and groundwater, as well as soils and living organisms. The widespread presence of PFAS in consumer and commercial products means PFAS is present in landfills and wastewater treatment systems.

Even though there is no measurable PFAS in Greater Portland's drinking water, it has been found in wastewater. PWD's four treatment facilities show 15-32 parts per trillion (ppt) of PFAS in the effluent.

In response to PFAS contamination, Maine became the first and only state in the nation to end the beneficial use (land application) of wastewater biosolids, which created a series of challenges for Maine's wastewater systems and produced landfill capacity problems. As a result, PWD has taken a proactive approach to finding solutions for biosolids management, including commissioning a Biosolids Master Plan to examine steps to manage PFAS-containing biosolids.

In collaboration with a team of law firms, SL Environmental Law Group is handling the Portland Water District's case along with several other wastewater systems across the country.

PWD is also a claimant in a federal multi-district case related to water utilities and PFAS contamination. Because PWD has no measurable PFAS in the drinking water, it is designated as a Class 2 claimant and reimbursement will be limited to covering the costs of the extra testing that has been required.

PWD is committed to protecting public health and supports keeping PFAS out of the environment. It supports efforts to reduce PFAS at its sources, including keeping them out of consumer products. PWD is proactively engaged at the local, state, and national levels, exploring solutions to combat the widespread PFAS problem.

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# PFAS Removal from Wastewater: Traditional vs Modern Treatment Methods

4.1.24

In the ongoing quest to combat water contamination, water and wastewater utilities face an evolving battlefield marked by pervasive pollutants like per- and poly-

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public health, the limitations of conventional wastewater treatment technologies become apparent. The 20th century's wastewater treatment processes, sufficient for the pollutants they target, fall short against a new generation of **contaminants like PFAS**. Proactively addressing modern water and wastewater pollution with more advanced technologies can help community leaders protect their water sources and be prepared for upcoming regulations.

In this article, we'll illuminate the differences between conventional and advanced treatment technologies and their abilities to remove PFAS from water to serve as a guide for the type of technologies wastewater treatment plants may need in the 21st century.

# Traditional Methods for Wastewater Treatment

Traditional treatment techniques have managed **wastewater pollution** in cities across the world for over a century. They've proven effective at removing organic matter, bacteria, and other household contaminants from sewage to maintain the health of water bodies that provide communities with drinking water and recreation. However, these established methods show significant treatment deficiencies when confronted with PFAS. Sometimes referred to as "forever chemicals," PFAS resist degradation and pass through the physical, chemical, and biological treatment processes that were designed for more organic pollutants. These treatment stages, effective

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**Sedimentation and Filtration**:

Physical treatments like sedimentation and filtration separate solids from wastewater. They act as filters that facilitate the efficacy of downstream treatment stages to ultimately comply with Clean Water Act standards. While physical treatment removes organic solids and nutrients, PFAS move onto subsequent treatment stages unabated due to their solubility in water, bypassing most physical barriers found at wastewater treatment plants. PFAS can be removed from wastewater via biosolids or filtered out by activated carbon and certain membrane filters common in water treatment. However, these processes do not destroy PFAS, leaving open the possibility for them to wind up elsewhere in the system.

**Coagulation and Flocculation**:

Chemistry plays an essential role in wastewater treatment. Chemical treatment processes like coagulation and flocculation facilitate physical and biological treatment methods, bringing certainty to a sensitive system. Coagulant is added to wastewater to bind naturally repelling organic materials to one another and stirred by "mixers" to form what are called "floc." These heavier, agglomerated particles weigh themselves down to precipitate in the sedimentation stage.

Coagulation and flocculation are proven methods in treating typical sewage. However, the unique properties of the many PFAS chemicals make them immune to the binding properties of coagulants and polymers. Unaffected by the chemical treatment process, many PFAS remain dissolved in wastewater, though organic solids often harbor PFAS and are found in the biosolids handling stage of wastewater treatment.

naturally occurring nitrogen cycle. These bacteria are fostered by aerobic and anaerobic zones that transform toxic substances like ammonia into nitrogen gas, which off-gasses into the atmosphere. While this process is routinely effective at removing ammonia, nitrogen compounds, and phosphorus from wastewater, it does not biodegrade PFAS compounds. PFAS' robustness means they can pass through the biological treatment phase untouched as other pollutants diminish.

These traditional treatment methods, while effective against their original target contaminants, now obligate wastewater plants to shift towards more innovative technologies in order to meet the modern challenges posed by PFAS contamination and other contaminants of emerging concern. The adoption of modern treatment solutions may be unavoidable for these facilities to comply with regulations, protect public health, and stop the pollution cycle.

# Modern Methods for PFAS Removal

In response to the treatment barriers posed by PFAS and other contaminants, the wastewater sector is increasingly turning towards solutions that complement and enhance traditional treatment methods. These modern approaches address the limitations of conventional techniques, promising effective PFAS removal from wastewater.

### Membrane Bioreactors (MBRs)

Initially incorporated within the aeration basin to replace bulky clarifiers at space-deficient treatment plants, MBRs are a membrane filtration technology that effectively

membranes used in these systems feature micro-lesions that are so small that bacteria, viruses, and even PFAS cannot physically pass through them. This method enhances treatment performance and consistently ensures the physical separation of PFAS from wastewater. While MBRs deliver PFAS-free effluent that meets upcoming regulations, they do not destroy PFAS, leaving them and other contaminants to absorb into biosolids.

### Granular Activated Carbon (GAC) Adsorption

Activated carbon reacts with almost everything. Its ability to absorb dissolved contaminants in water has made it a standout treatment for a wide array of pollutants, including PFAS. Commonly used in water treatment plants, wastewater plants wanting to remove PFAS from their effluent can employ these same carbon filter beds to facilitate a chemical reaction between activated carbon and the pollutants within wastewater. GAC effectively removes long-chain PFAS, is easy to procure, and relatively **cost-effective**. However, GAC systems often require the most space compared to other PFAS treatments, struggle to remove short-chain PFAS, and require longer retention times than ion exchange resins.

Further innovations, such as combining GAC with proprietary media like Fluoro-sorb™, show promise in enhancing PFAS removal rates, removing of a broader span of PFAS chemicals, as well as the lifespan of GAC media.

### Advanced Oxidation Processes (AOPs)

AOPs are a cutting-edge approach against PFAS and other hard-to-treat chemicals, combining hydrogen peroxide with ozone or UV light to generate potent hydroxyl radicals. Hydroxyl radicals react with and break

creates a pathway to significantly mitigate their environmental impact. AOPs offer a chance for treatment plants to destroy PFAS on site in addition to complying with environmental regulations. However, the consumption of hydrogen peroxide and ozone generation can be costly. Its practicality is case-by-case.

These modern treatment methods underscore a pivotal shift towards more effective strategies in combating PFAS contamination. However, they come with a financial burden not all communities are ready to take on.

# Cost Effectiveness and Treatment Efficiency

Navigating the financial complexities of modernizing wastewater treatment facilities to address contamination requires innovative thinking and strategic planning. The shift towards advanced treatment methods, while necessary for environmental and public health, presents a significant financial undertaking for wastewater utilities nationwide. It's critical to consult a professional engineer to analyze your contamination situation and determine the best method for your system. This involves a thorough analysis of treatment options, potential for scalability, and the long-term applicability of equipment investments in the face of increasingly stringent regulations.

A proactive approach coupled with an understanding of available cost recovery mechanisms can mitigate the financial burden. By exploring grants, state funding, and legal avenues for cost recovery, wastewater utilities can

For communities that want to take on a proactive approach to removing PFAS from their wastewater, SL environmental law group offers a **Cost Recovery Guide for Wastewater Utilities**. If your community is interested in exploring how litigation against the manufacturers responsible for the PFAS contamination can fund the next generation of wastewater treatment equipment at your facility, **contact us** today for a free consultation.



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**Final report**

# Limnological health assessment of Seven Sanibel Island ponds

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## A. Introduction

Seven ponds located within the barrier island of Sanibel, Collier County, Florida, were selected to be studied for their water quality and sediment characteristics. Such ponds besides one (Beach Villa) have a long history of cultural eutrophication and are, as such, a major concern for the City of Sanibel Island.

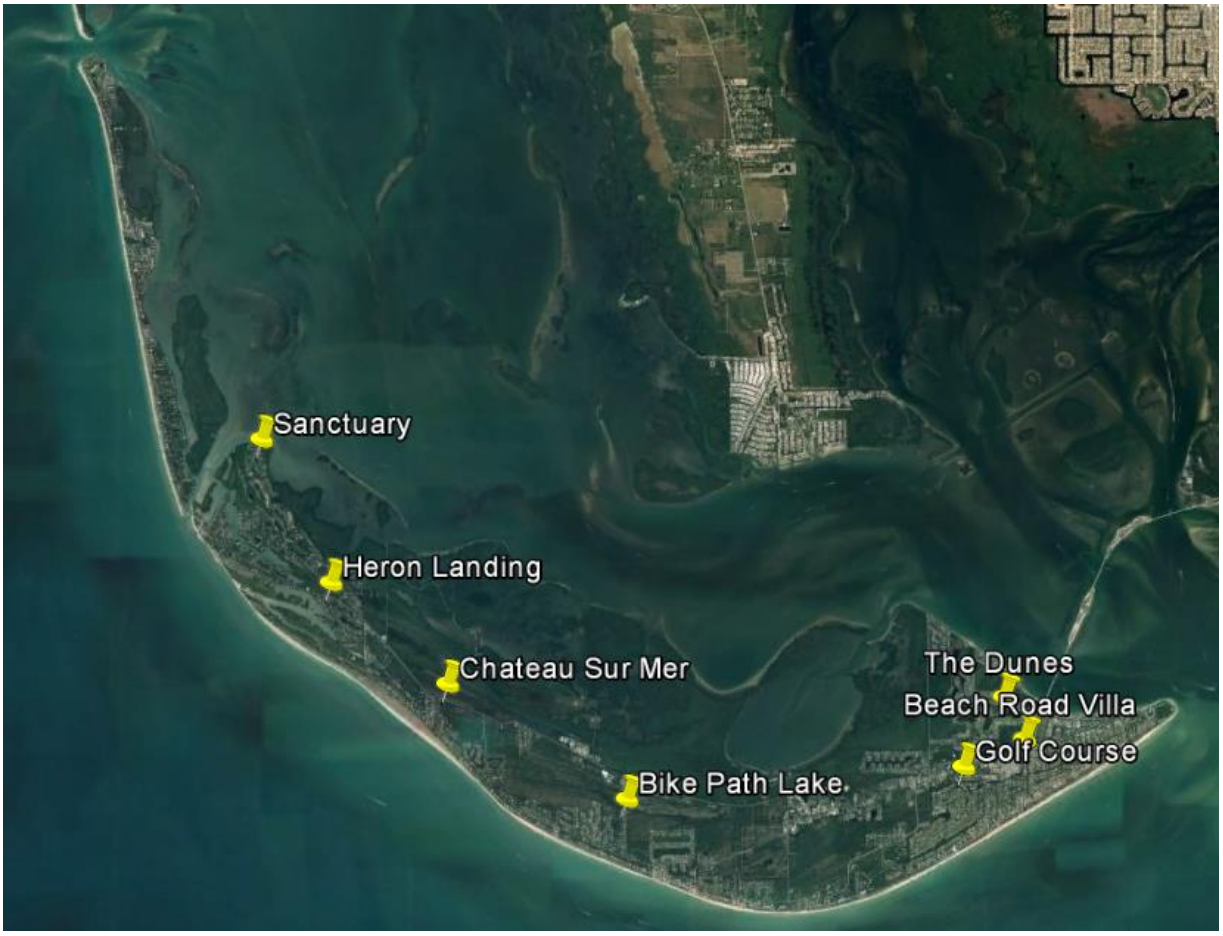



*Figure 1.Ponds studied within Sanibel Island. Photo courtesy of Google Earth Pro.*

## B. Objectives

The objectives were to i) survey the ponds for their bathymetry, bottom hardness and submerged aquatic vegetation (SAV) using Sonar technology then to ii) select water quality and sediment coring stations so that iv) water quality be assessed once in a year in the heart of the dry season and iv) that the sediment/floc be characterized for thickness as well as nutrients contents. The City of Sanibel would then use such data summarized in this report to develop management plans customized for each pond.

## C. Pond mapping

### 1. Methods

The bathymetry, bottom hardness and submerged aquatic vegetation (SAV) cover were done from a boat equipped with a Lowrance HDS 7 sonar connected to a 200 Khz transponder placed about 10cm below the surface. The boat traveled throughout each pond by making concentric paths which distance between paths varied from 5m to 25m depending on the pond's surface area. The position of the transponder below the surface was compensated for when the maps were generated using the Kriging method (linear variogram using an interpolation grid made of square cells of 0.5m) using the software Surfer 12 (www.goldensoftware.com). Sonar depths below 0.5m to 0.7m were automatically rejected because of the high noise generated by the transponder in very shallow water. The elevation of the surface of the pond was measured with a Trimble™ 3D R8 GNNS the day the bathymetry was made so that all depths referenced initially to the water surface were adjusted to NAVD'88 elevation. A wooden post made of a 2 by 4 treated lumber was also placed in the pond the day of the sonar deployment (the yellow star in all maps generated) and its apex NAVD'88 elevation was also determined so that a staff gage can be affixed to it on a later date. Once the bathymetric map done, volume and surface computations against a known NAVD'88 elevation of the water surface were made to generate NAVD'88 to volume, surface area and mean depth conversions (see in Appendix 1 for such relationships). The bathymetric maps were used to select the water quality station so that it would be placed in the deepest locale of the pond (yellow diamond in the maps).

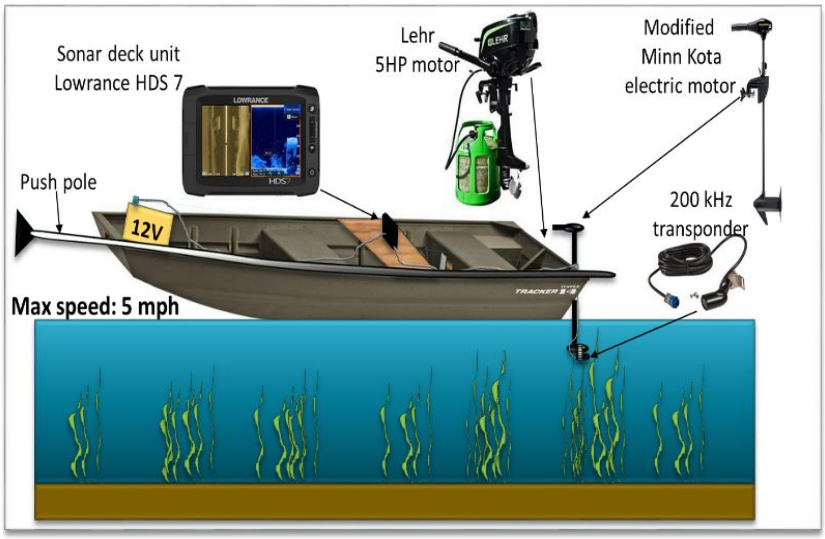



*Figure 2. Sonar and boat setup. In addition, a Trimble 3D R8 GNNS was used to determine the NAVD'88 elevation of the surface water the day of the bathymetry.*

Bottom hardness was determined by applying the proprietary algorithms from www.cibiobase.com. The hardness is a relative value running from 0 (very soft) to 1 (very hard) which reflects the sediment thickness located on the pond's bed in shallow water. Because the frequency used by the transponder, the signal is strong enough to penetrate well the sediment when the water is ideally less than 2-3m deep. For better penetration of the echo generated by the sonder, a lower frequency transponder should normally be used but this transponder could not then be used to determine SAV cover. The sharpness of the echo on the bottom is evaluated by the algorithm so that bottom hardness (sharp echo on the bottom= high hardness) is

estimated. Bottom hardness is not determined when too much SAV is present so that those sounding points are dropped automatically by the algorithm. The bottom hardness map was used to select the positions of the coring stations.

SAV was determined by measuring the SAV's height (as measured by the echo of the acoustic signal sent through the water column) and the its relative height compared to the water depth. As such a plant that would occupy 80% of the water column would return an 80% biovolume SAV.

## 2. Maps

### i. Beach Villa pond

When visited, Beach Villa pond surface water was 0.247m NAVD'88. The volume of the pond was then 414$m^3$ for a planar surface area of 522$m^2$ and a mean depth of 0.8m.

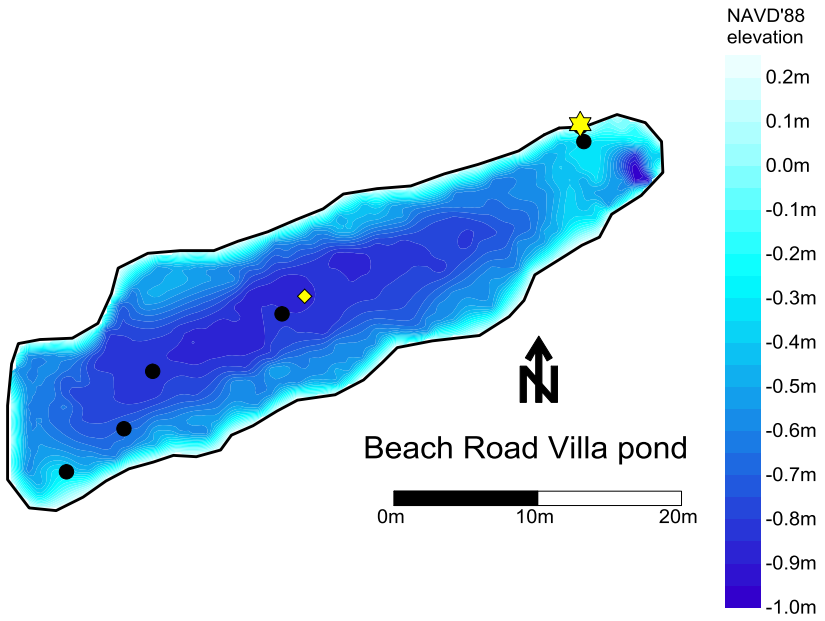



*Figure 3. Bathymetry of Beach Villa pond.*

The average bottom hardness of Beach Villa pond was around 0.3. The yellow portion of the map (bottom hardness around 0.3) is most accurate as the softer surrounding sediment around was extrapolated since the algorithm ran dropped out most of the depths in the shallow portion of the pond or when SAV was present. The SAV cover was found especially in the northeast corner as well as in the deepest portion of the pond.

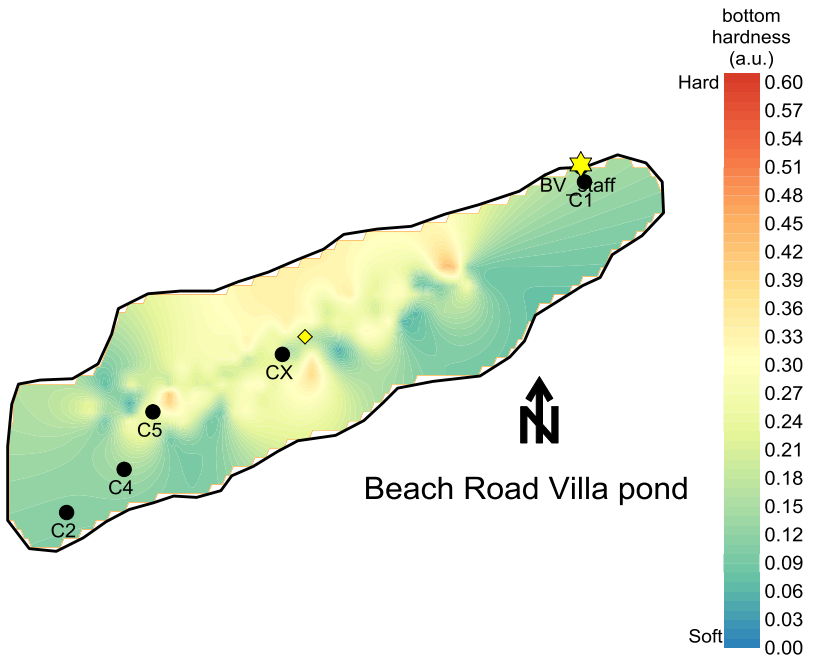



*Figure 4. Bottom hardness of Beach Villa pond*

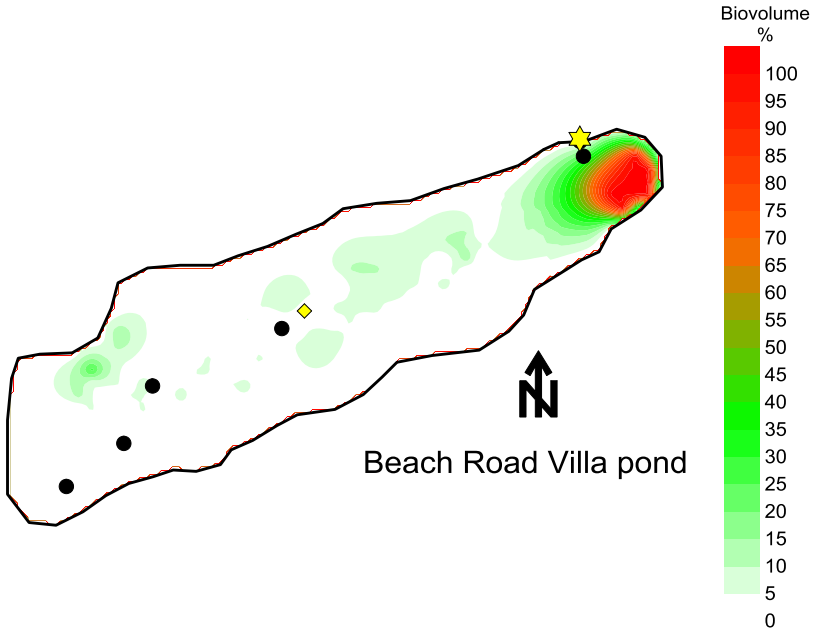



*Figure 5. SAV cover in Beach Villa pond*

### ii. Bike Trail pond

When visited, Bike Trail pond surface water was -0.5m NAVD'88. The volume of the pond was then 27,055m$^3$ for a planar surface area of 15,007m$^2$ and a mean depth of 1.8m. The average bottom hardness of Bike trail pond was 0.39 as calculated with surfer and this was quite uniform all over the pond. The SAV cover was very sparse and limited to the shelf.

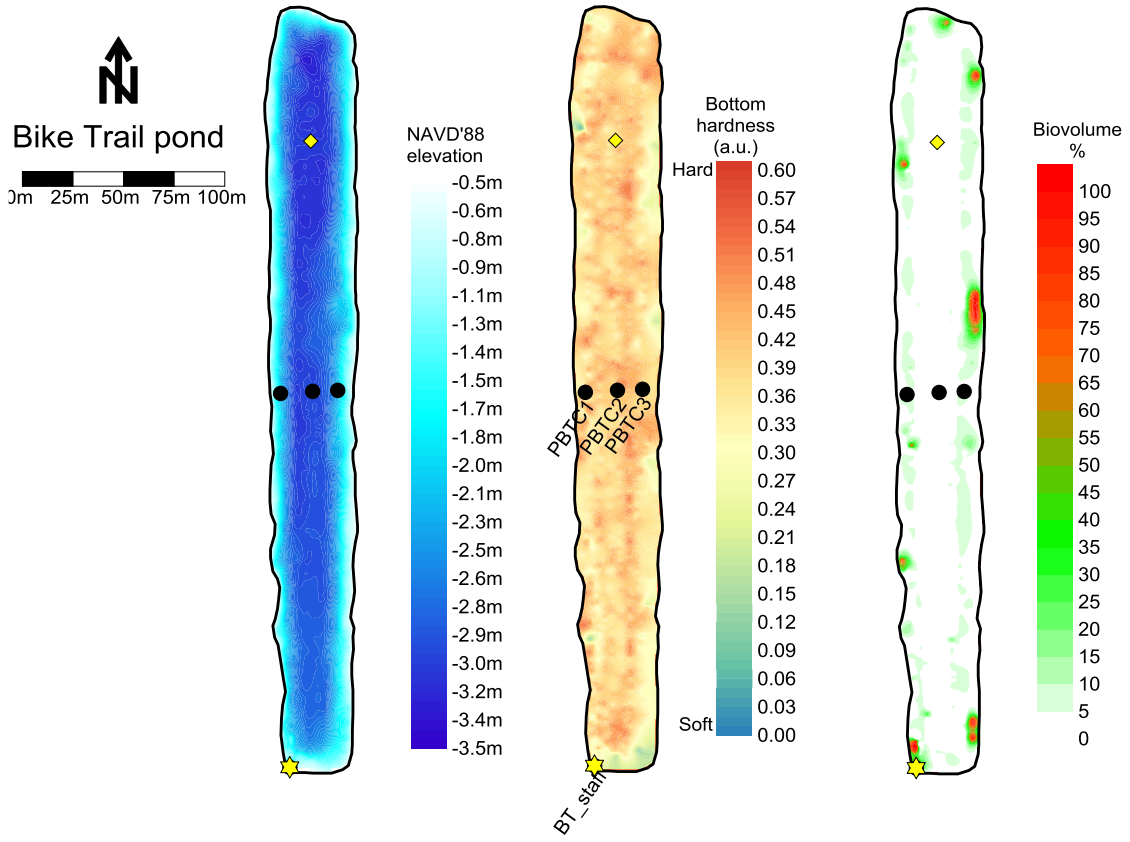



*Figure 6. From left to right Bathymetry, bottom hardness and SAV cover of Bike Trail pond*

### iii. Chateau-Sur-Mer pond

When visited, Chateau-Sur-Mer pond surface water was -0.27m NAVD'88. The volume of the pond was then 9,791m$^3$ for a planar surface area of 8,219m$^2$ and a mean depth of 1.2m.

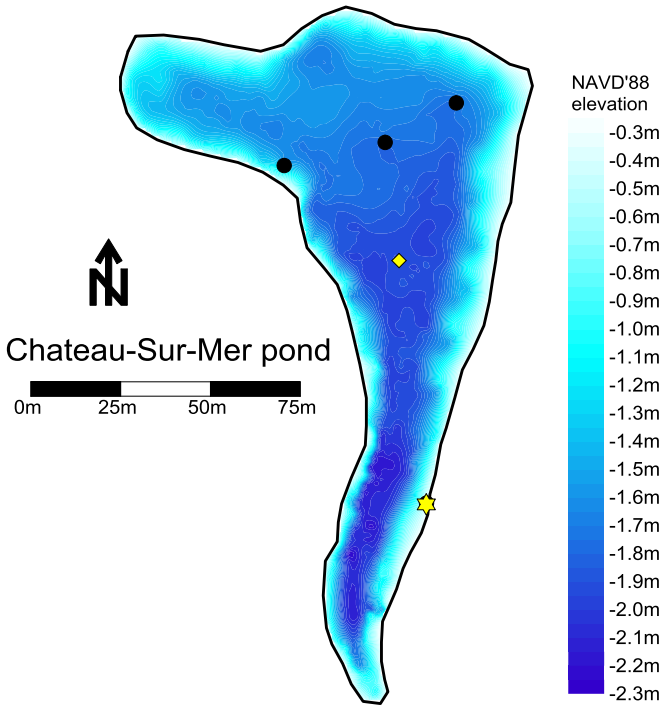



*Figure 7. Bathymetry of Chateau-Sur-Mer pond*

The average bottom hardness of Chateau-Sur-Mer pond was 0.37 as calculated with surfer and this was quite uniform all over the pond beside at the vicinity of the north east and central west corners where the hardness was around 0.09-0.15. SAV cover was found in very localized spots of the shelf as well as in low density in the deepest portions of the pond

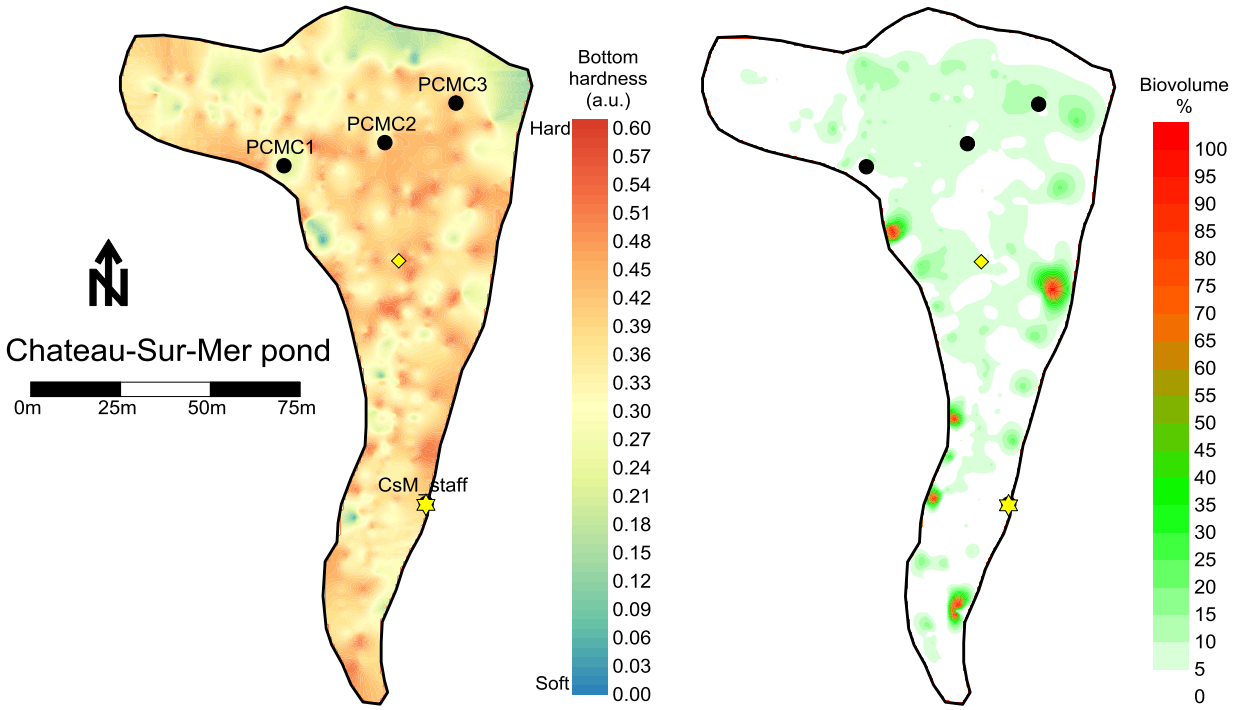



*Figure 8. From left to right, bottom hardness and SAV cover in Chateau-Sur-Mer pond*

### iv. Golf Course pond

When visited, Golf Course pond surface water was 0.247m NAVD'88. The volume of the pond was then 12,679m$^3$ for a planar surface area of 8,218m$^2$ and a mean depth of 1.6m.

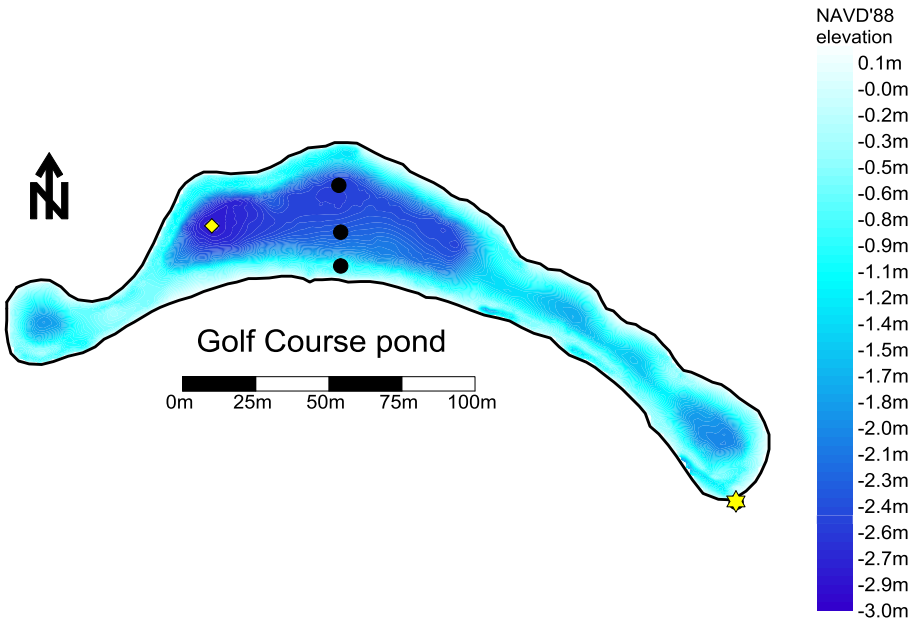



*Figure 9. Bathymetry of Golf Course pond*

The average bottom hardness of Golf Course pond was 0.47 as calculated with surfer with harder bottom (0.49) on the littoral zone and softer sediment (038) in the deepest portions.

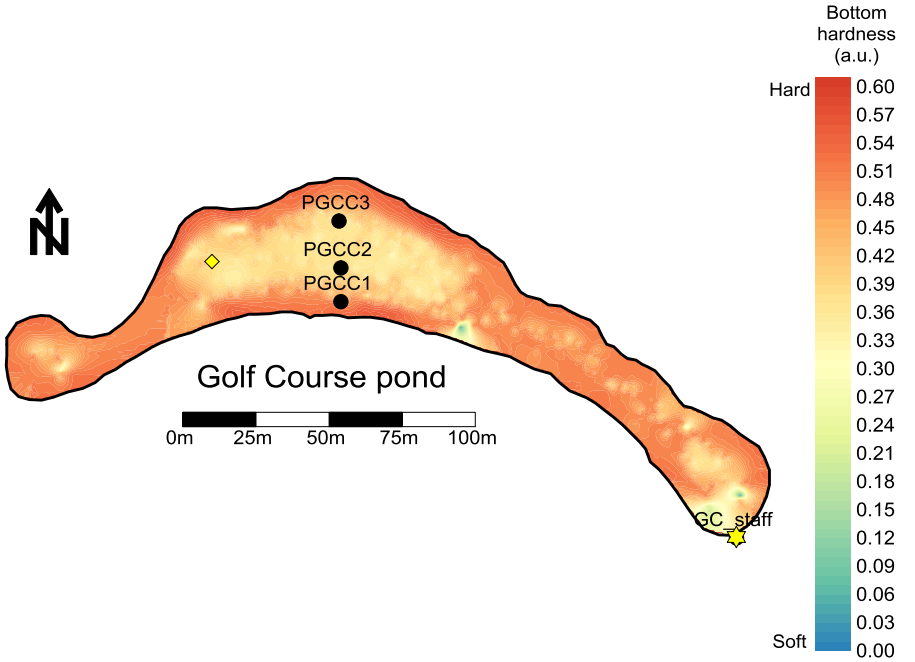



*Figure 10. Bottom hardness of Golf Course pond*

SAV cover was found in good density on the shelf but not in the deepest portions of the pond.

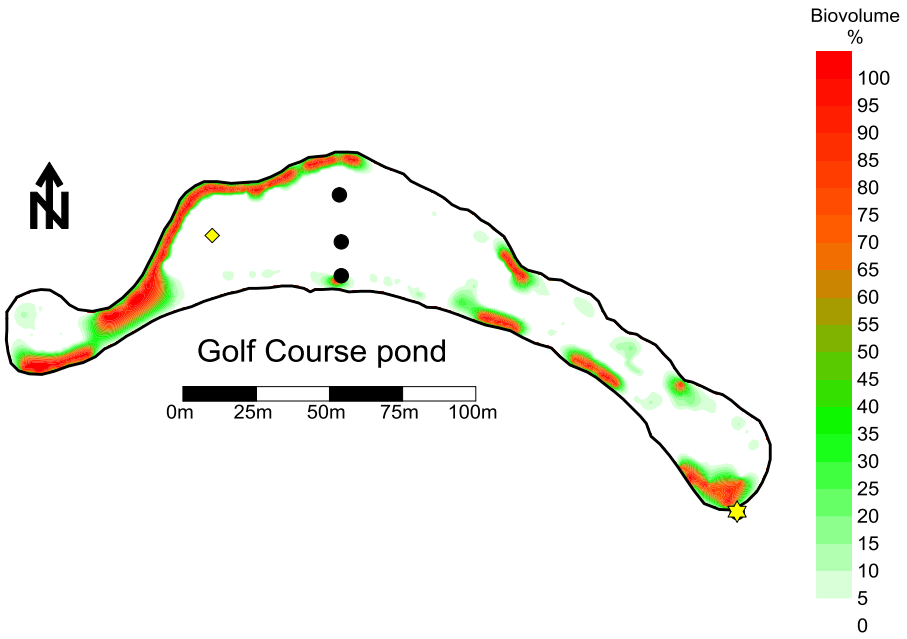



*Figure 11. SAV cover in Golf Course pond*

### v. Heron landing pond

When visited, Heron Landing pond surface water was -0.17m NAVD'88. The volume of the pond was then 8,595m$^3$ for a planar surface area of 4,774m$^2$ and a mean depth of 1.9m.

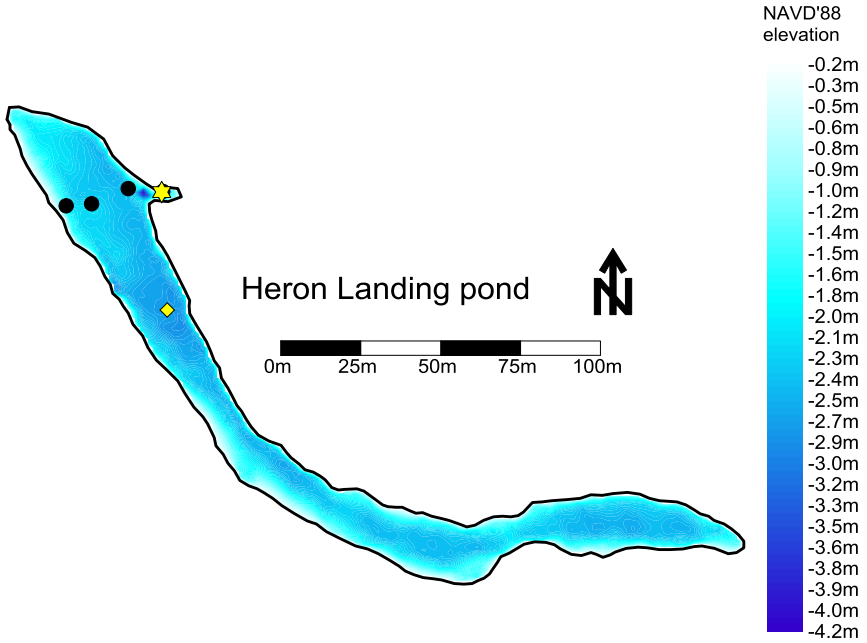



*Figure 12. Bathymetry of Heron Landing pond*

The average bottom hardness of Heron Landing pond was 0.44 as calculated with surfer and its bottom was harder than its shelf. SAV cover was found intermittently on the shelf but not in the deepest portions of the pond.

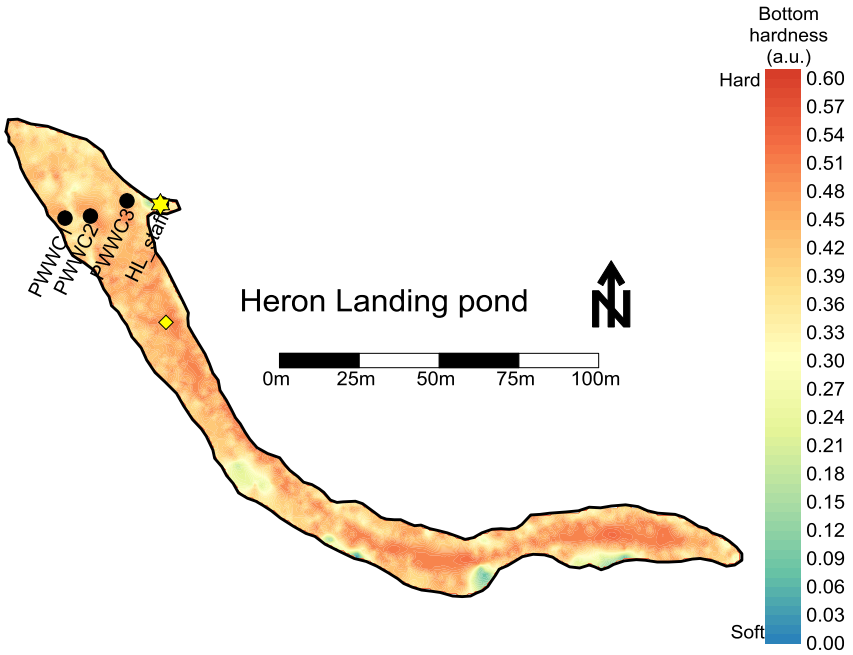



*Figure 13. Bottom hardness of Heron Landing pond*

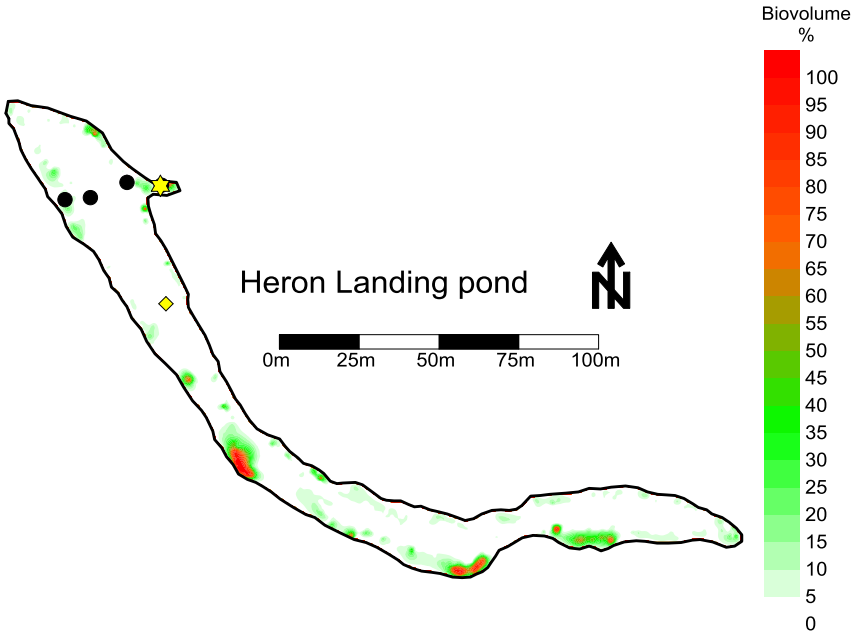



*Figure 14. SAV cover in Heron Landing pond*

### vi. Sanctuary pond

When visited, Sanctuary pond surface water was 0.17m NAVD'88. The volume of the pond was then 9,007m$^3$ for a planar surface area of 4,540m$^2$ and a mean depth of 2.1m.
The average bottom hardness of Sanctuary pond was 0.42 as calculated with surfer and quite uniform all over beside its central east shore which had softer bottom (0.14).
SAV cover was mainly found on the shelf and especially on the eastern side of the pond.

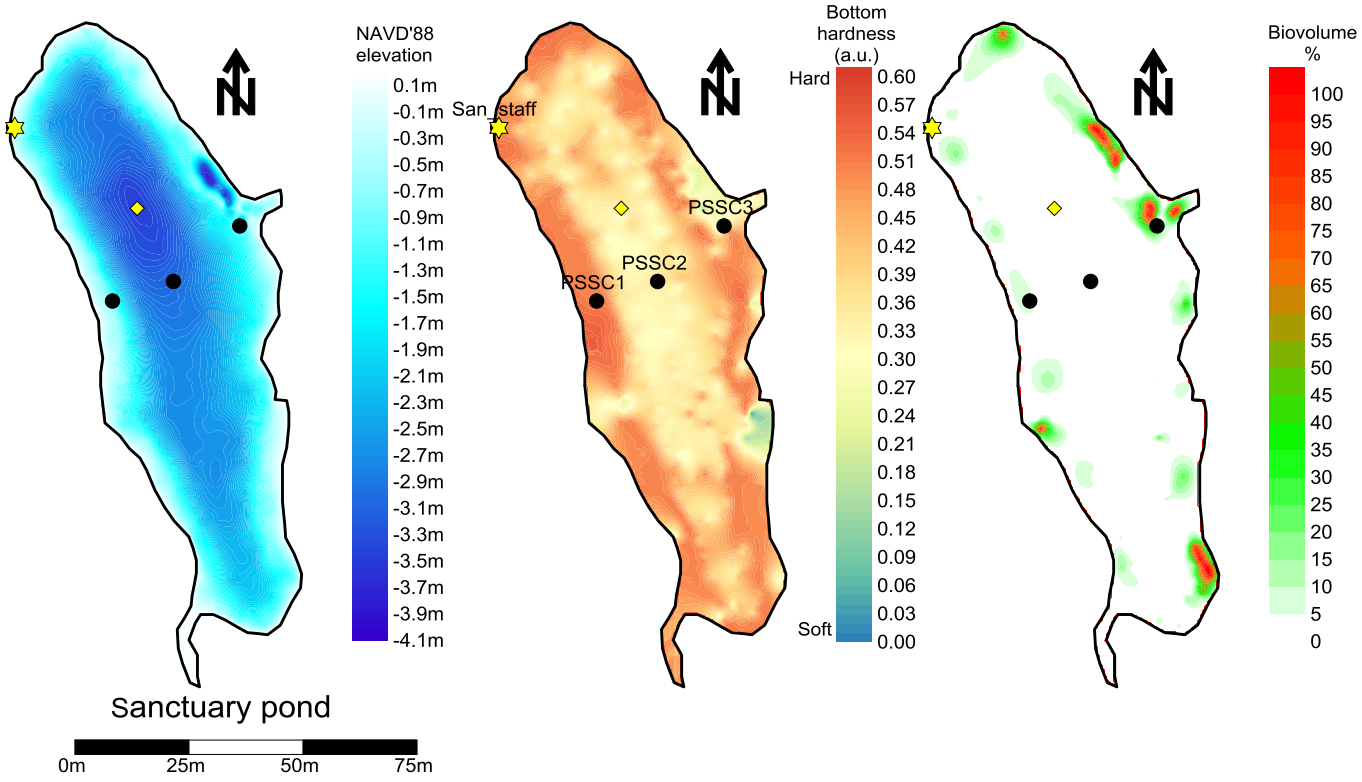



*Figure 15. From left to right Bathymetry, bottom hardness and SAV cover of Sanctuary pond*

### vii. The Dunes pond

When visited, The Dunes pond surface water was 0.103m NAVD'88. The volume of the pond was then 207,700m$^3$ for a planar surface area of 81,404m$^2$ and a mean depth of 2.6m.

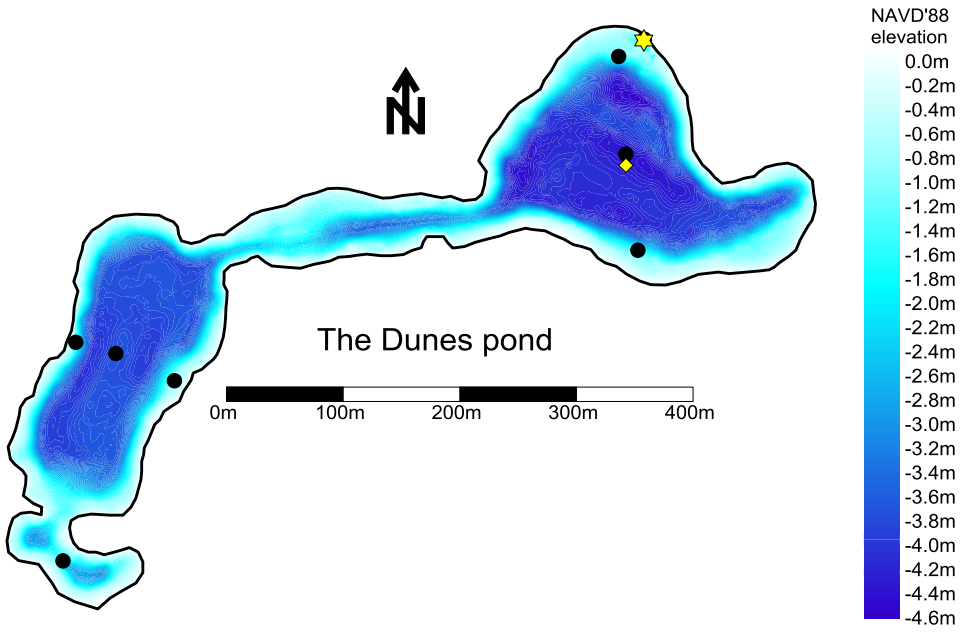



*Figure 16. Bathymetry of The Dunes pond.*

The average bottom hardness of The Dunes pond was 0.41 as calculated with surfer. Its shelf was considerably harder (0.5) than its deeper portions (0.3).

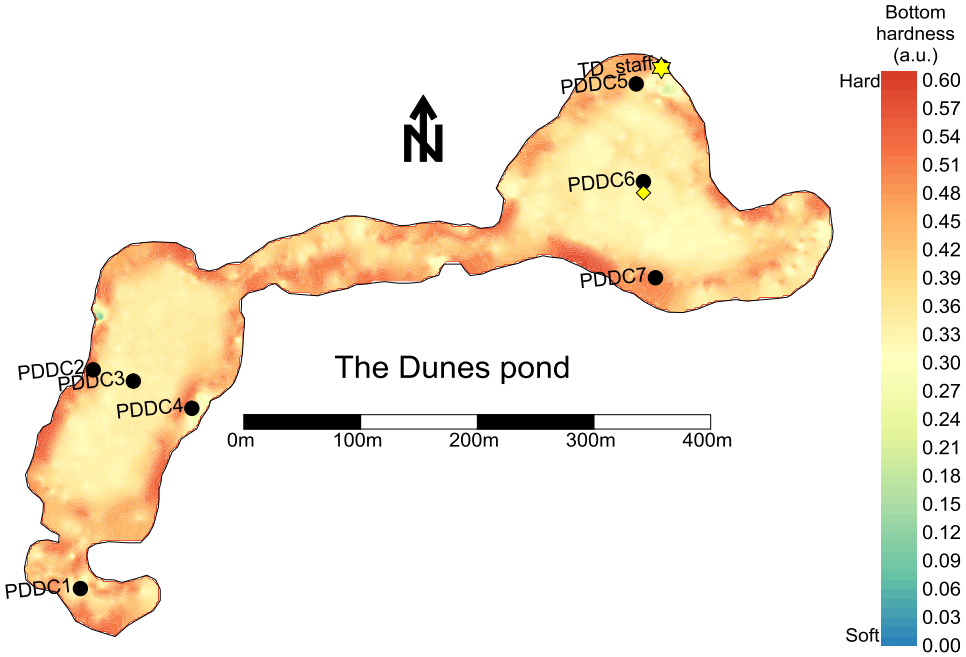



*Figure 17. Bottom hardness of The Dunes pond*

SAV cover was very sparse as SAV was found mainly in one spot of the north of the pond on the shelf and in the south central portion of it. Further, sporadic SAV was found in the center of the extreme south portion of the pond.

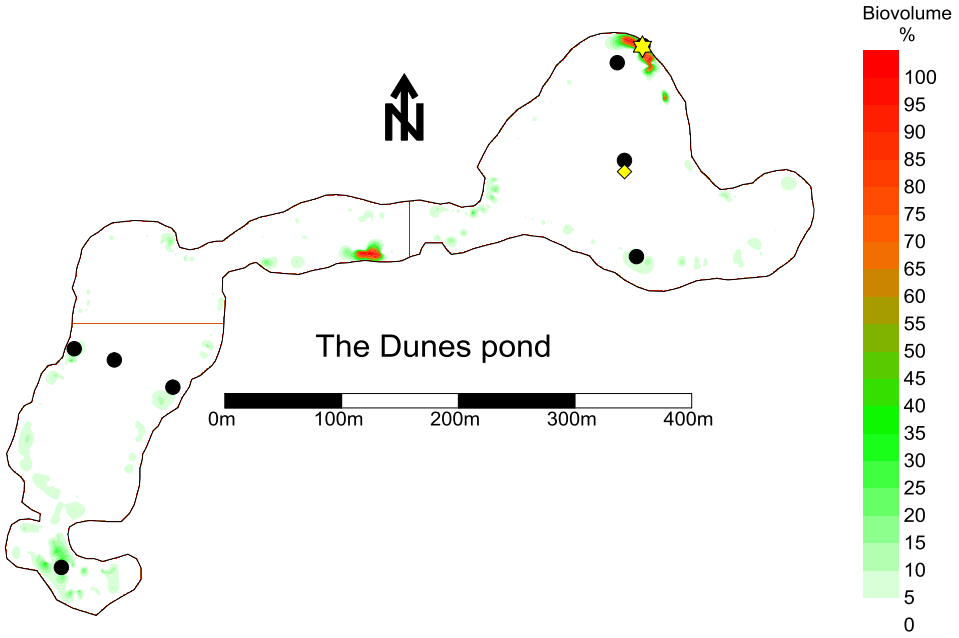



*Figure 18. SAV cover in The Dunes pond*

## 3. Conclusions

Most ponds had their water level close to 0m NAVD'88, however some ponds were substantially lower than 0m NAVD'88. Bike Trail pond was especially the lowest, followed by Chateau-Sur-Mer and Heron Landing. The other ponds had positive elevations with the Beach Villa and Golf course being the highest followed by Sanctuary and The Dunes.

The largest pond is by far The Dunes followed by Bike Trail, while Golf Course, Chateau-Sur-Mer, Sanctuary and Heron Landing are all around one hectare. Beach Villa pond is the smallest.

All ponds are shallow but the Dunes is the deepest pond followed by Sanctuary, Heron Landing and Bike Trail around 2m average depth while Chateau-Sur-Mer and especially Beach Villa are around 1m deep.

Golf course pond has the hardest bottom especially because of its shelf while Sanctuary, The Dunes, Bike Trail and Chateau-Sur-Mer had similar bottom hardness and spatial variation. Heron Landing was unique in the fact that its bottom was harder than its shelf. Beach Villa had the softest sediment but its hardness was hard to determine since nearly all the shelf data were missing in the interpolation.

Finally, SAV cover was the highest in Golf Course and Sanctuary, especially on the shelf while it was poor in all the other ponds besides Beach Villa (spotty high density on the shelf) and Chateau-Sur-Mer which had quite homogenous but low density SAV on its deepest portion.

| | Elevation | Volume | Planar area | Mean depth | bottom hardness | SAV |
|---|---|---|---|---|---|---|
| Ponds | NAVD'88 (m) | $m^3$ | $m^2$ | m | a.u. | % |
| Beach Villa | 0.247 | 414 | 522 | 0.8 | ~0.3 | spotty on shelf, sparse in deep portion |
| Bike Path Trail | -0.5 | 27,055 | 15,007 | 1.8 | 0.39 | spotty to sparse on shelf |
| Chateau sur Mer | -0.27 | 9,791 | 8,219 | 1.2 | 0.37 | spotty on shelf, sparse in deep portion |
| Golf Course | 0.247 | 12,679 | 8,218 | 1.6 | 0.47 | fair cover on shelf |
| Heron Landing | -0.17 | 8595 | 4,774 | 1.9 | 0.44 | spotty to sparse on shelf |
| Sanctuary | 0.17 | 9,007 | 4,540 | 2.1 | 0.42 | fair cover on shelf |
| The Dunes | 0.103 | 207,700 | 81,404 | 2.6 | 0.41 | very sparse on shelf and deeper portion |

*Table 1. Summary of mapping characteristics*

## D. Water column characteristics

Water column characteristics were assessed when the sun was around its zenith position at one location for each pond as determined subsequently to the bathymetry mapping (yellow diamond on each map). Water depth was first measured followed by the water profiling of the water column with smarTROLL multiparameter sonde (www.in-situ.com) equipped with a temperature, luminescent dissolved oxygen (DO), pH, specific conductance, oxidation-reduction (ORP) probe and a water depth sensor. The sonde was lowered in the water column at every 0.25cm waiting about 10second between each depth increment before resuming lowering the sonde at that increment until it reached the bottom. Photosynthetically active measurements (PAR) were done with a LICOR 4π Quantum type sensor connected to a LICOR 1400 meter which sensor was lowered every 0.25cm until the bottom was reached or sky conditions changed. Water clarity was also assessed with a Secchi disk and turbidity meter (Hach 2100Q, www.hach.com). All instruments were calibrated prior to getting to the sites. Such profiles were plotted in Microsoft Excel to determine whether a thermocline, oxycline and halocline/pycnocline were present as well as to determine if levels for the parameters measured were critical. Further, PAR profiles were used to determine the euphotic zone depth below which algae theoretically can no longer photosynthesize (Kirk, 2011). The Secchi disk depth was used to calculate the Trophic Status Index (TSI, Brezonik 1984).

The water column was sampled using a vertical 2.2L Beta™ Van Dorn bottle sampler at various depth intervals until 0.5m above the pond's bed. All samples were then mixed in a clean bucket so that a composite sample could be taken. Total alkalinity was then determined using a Hach kit (Model AL-DT, www.hach.com). The composite water sample was kept in an opaque 1.5L Nalgene bottle which was kept in the dark in a cooler. Within 10 hours, the water for the analysis of total phosphorus (EPA365.1) and total nitrogen (ASTM D5176) was transferred into a 125ml Nalgene bottle which was kept refrigerated until being analyzed. A 60ml subsample was additionally filtered through a Nucleopore™ 0.45µm pore size filter into an 80ml Nalgene bottle which was immediately frozen until being analyzed for dissolved nutrients: NOx (EPA353.2), NO2- (EPA353.2), NH4+ (EPA350.1) and soluble reactive phosphorus (SRP, EPA365.1). A known volume of water was further filtered onto a Whatman™ GF/F (0.7µm nominal pore size) to retain algae. The filter was then processed through acetonic extraction in a fridge for 48h to extract Chl *a* which extract was read in a spectrophotometer to determine the pigment concentration (Jeffrey and Humphrey 1975). Nutrients and Chl *a* were analyzed by Dr. Lasso de la Vega at the Water Hyacinth Control (Lee County, Florida).

## 1. Water column structure and clarity

### i. Beach Villa pond

The water column was well mixed in Beach Villa pond with slightly less than the lower limit of DO for fishes to be stressed (less than 5mg/l). It is anticipated that such DO levels drop even further at night as respiration prevails. pH was close to circumneutral with a drop at the vicinity of the sediment which corroborates the drop in DO there as well. Specific conductance is characteristic of freshwater and increases near the bottom because of sediment porewater influence. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. The water column is clear and allows benthic phototrophs to grow (i.e. algae and SAV).

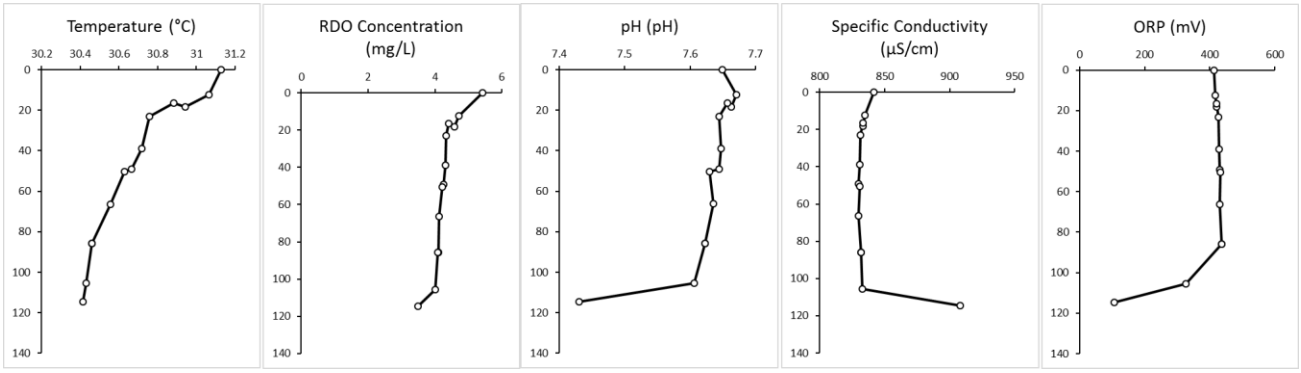



*Figure 19. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Beach Villa pond*

### ii. Bike Trail pond

The water column was well mixed in Bike Trail pond with less than the lower limit of DO for fishes to be stressed (less than 5mg/l). It is anticipated that such DO levels drop even further at night as respiration prevails. pH was higher than circumneutral and more in par with brackish or saline systems. pH drops at the vicinity of the sediment which corroborates the decrease in DO there as well. The specific conductance is characteristic of brackish water. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. The water clarity is sufficient enough to allow algae to grow on the bottom but it restricts SAV growth.

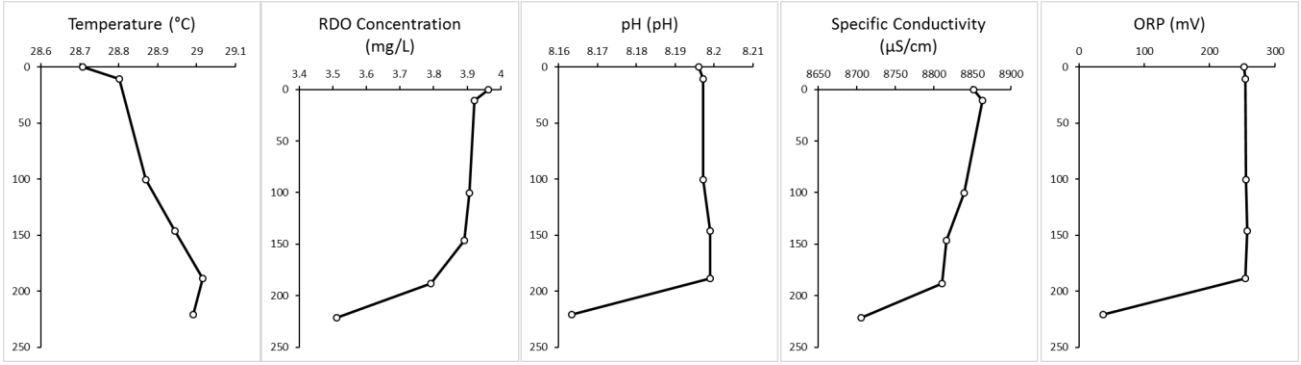



*Figure 20. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Bike Trail pond*

### iii. Chateau-Sur-Mer pond

The water column was well mixed in Chateau-Sur-Mer pond with adequate to critical DO enough to stress fishes near the bottom (less than 5mg/l). It is anticipated that such DO levels drop even further at night as respiration prevails. pH was higher than circumneutral and more in par with brackish or saline systems. pH drops at the vicinity of the sediment which corroborates the decrease in DO there as well. Specific conductance is characteristic of slightly brackish water. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. Water clarity is fair but since this ponds is shallow, there is ample amount of light reaching the bottom to allow benthic algae and some SAV to grow.

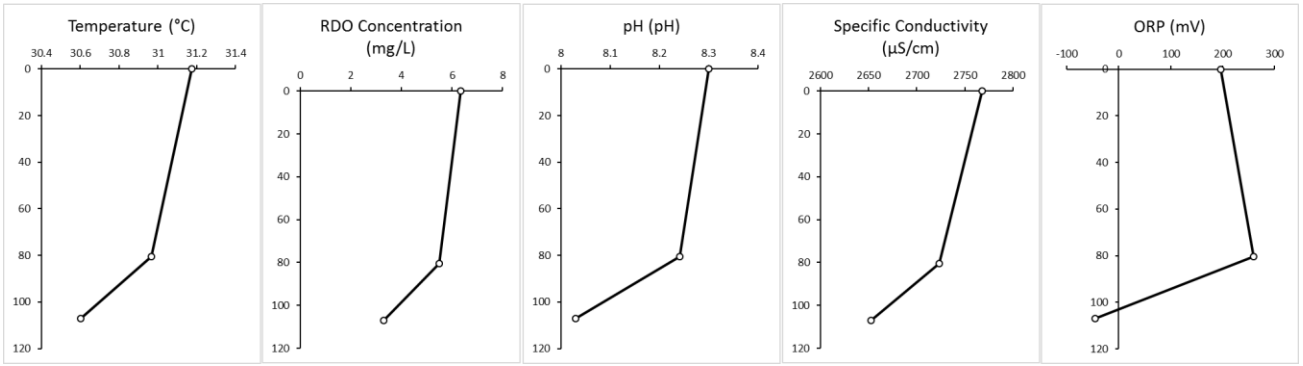



Figure 21. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Chateau-Sur-Mer pond

### iv. Golf Course pond

The water column was well mixed in Golf Course pond. High DO in the surface representing biological production via photosynthesis would not stress fishes during the day but would decrease steeply at night as algae add their respiration to the one from the heterotrophs. Below 0.5m, an oxycline is present as DO drops to hypoxia near the bottom. Logically, the pH follows that pattern with high pH above 8.2 on the surface exhibiting supersaturation of DO. Specific conductance is characteristic of slightly brackish water. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. The water clarity is fair and allows light to reach most of the bottom thus allowing benthic and show SAV to grow especially on the shelf.

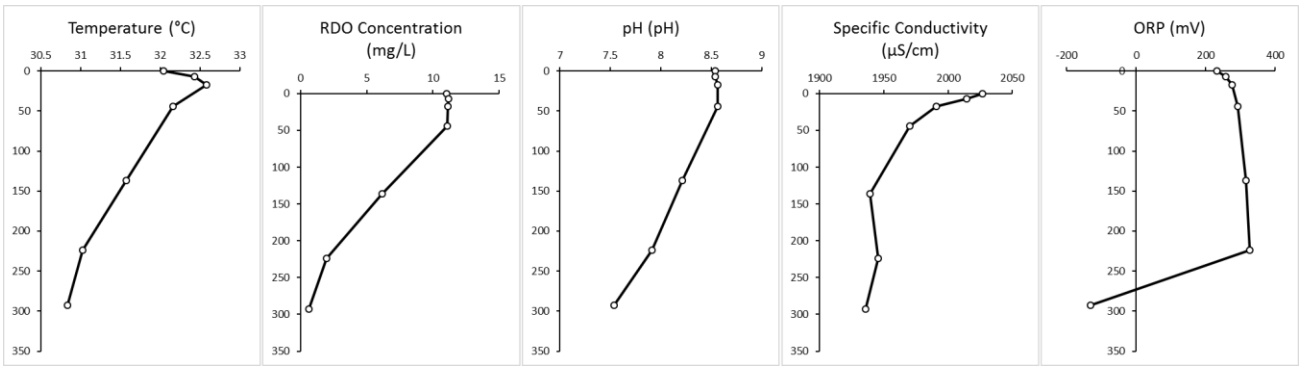


*Figure 22. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Golf course pond*

### v. Heron landing pond

The water column is being destratified in Heron Landing pond since the temperature curve represents mixing occurring between the epi and hypolimnion. DO are alarming low and typical of anoxia. pH is typical of brackish and saline water which agrees with the specific conductance. Specific conductance is also lower on the surface than in deeper water and shows a weak halo/pycnocline which is being destroyed. ORP is very negative showing a very reducing environment in par with the anoxia observed. Water clarity is very poor as PAR profiles prove very challenging as light would attenuate too quickly. Particulates other than phytoplankton and likely heterotrophic bacteria and other particulates attenuate light in the water column.

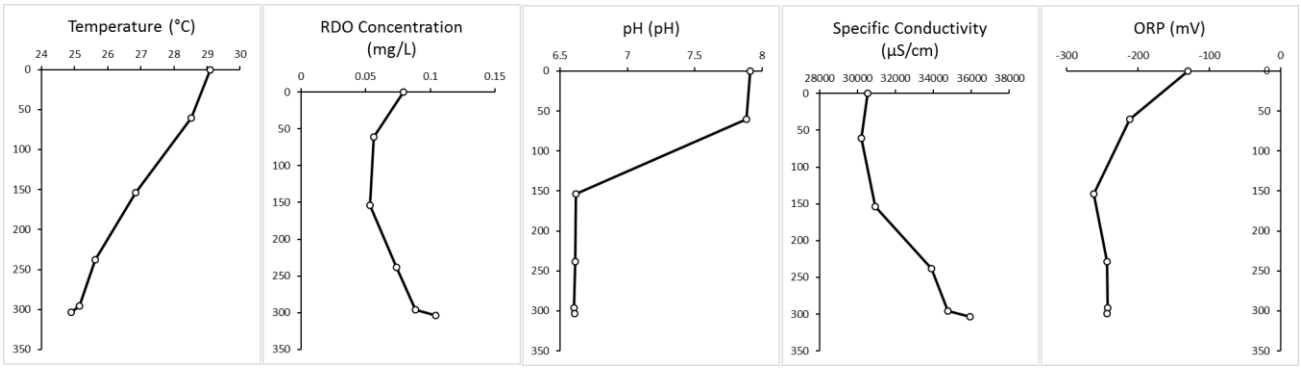



*Figure 23. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Heron Landing pond*

### vi. Sanctuary pond

The water column was well mixed in Sanctuary pond. High DO throughout most of the water column reflect biological production via photosynthesis. Such a supersaturation in DO would not stress fishes during the day but DO would decrease steeply at night as algae add their respiration to the one from the heterotrophs. DO drop to hypoxia near the bottom. Logically, the pH follows that pattern with high pH above 8.2 on the surface exhibiting supersaturation of DO. Specific conductance is characteristic of slightly brackish water. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. Water clarity is mediocre linked to phytoplankton and other particulates. SAV will grow on the shallow shelf and algae can still grow in most of the pond's bottom and especially within the water body.

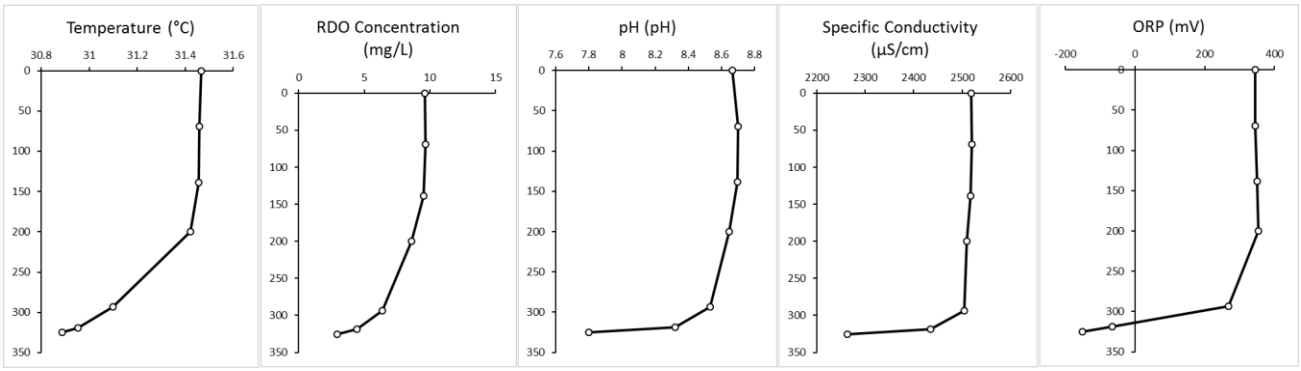



*Figure 24. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Sanctuary pond*

### vii. The Dunes pond

The water column was well mixed in The Dunes pond even despite the relative deep depth. DO is too high in the surface representing biological production via photosynthesis which would not stress fishes during the day but would decrease steeply at night as algae add their respiration to one from the heterotrophs. Below 0.5m, a steep oxycline is present as DO drop to anoxia near the bottom. Logically, the pH follows that pattern but on a log scale with high pH above 8.2 on the surface exhibiting supersaturation of DO. Specific conductance is characteristic of slightly brackish water and it increases steeply over the bottom showing more saline pore sediment water. ORP is positive and normally drops near the bottom as DO and other elements in the oxidative state decrease. ORP however remains positive. Water clarity is mediocre to poor as light is attenuated by phytoplankton and other particulates. SAV growth is limited to the shallow shelf while algae should be able to grow there as well and up to 1.4m.

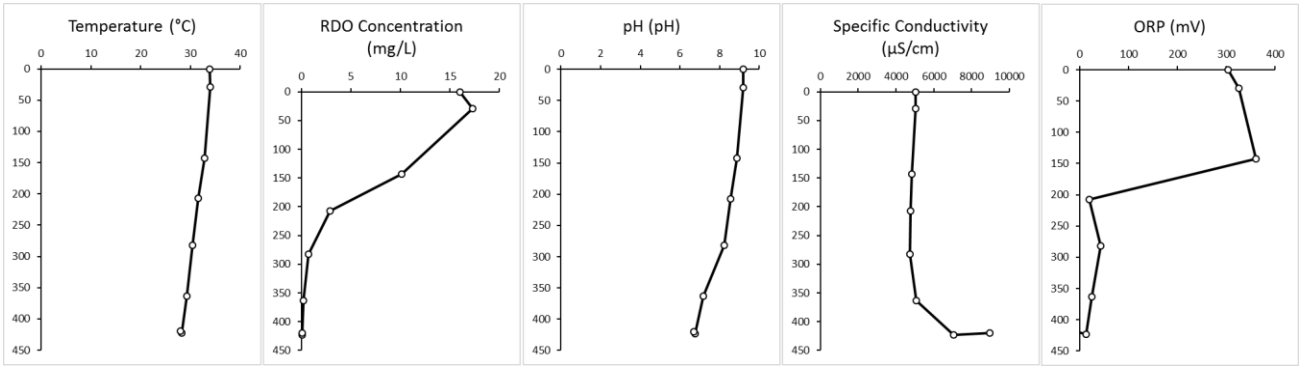



*Figure 25. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in The Dunes pond*

| | Mean temperature | Mean sp. cond. | Mean salinity | Mean DO | Mean DO | Mean pH | Mean ORP | Turbidity | Zeu |
|---|---|---|---|---|---|---|---|---|---|
| Ponds | ºC | µS/cm | ppt | mg/l | % | a.u. | mV | NTU | m |
| Beach Villa | 30.7±S.D.0.2 | 838±S.D.21 | 0.42±S.D.0.01 | 4.31±S.D.0.45 | 57.9±S.D.6.2 | 7.62±S.D.0.06 | 394.1±S.D.91.1 | 2.3 | 2.8 |
| Bike Path Trail | 28.9±S.D.0.1 | 8815±S.D.57 | 4.99±S.D.0.03 | 3.83±S.D.0.17 | 51.3±S.D.2.2 | 8.19±S.D.0.01 | 218.9±S.D.89.1 | 24.0 | 2.3 |
| Chateau sur Mer | 30.9±S.D.0.3 | 2714±S.D.58 | 1.42±S.D.0.03 | 5.05±S.D.1.57 | 68.5±S.D.21.6 | 8.19±S.D.0.14 | 137.1±S.D.160.9 | 18.6 | 1.9 |
| Golf Course | 31.8±S.D.0.7 | 1975±S.D.37 | 1.02±S.D.0.02 | 7.61±S.D.4.68 | 104.5±S.D.64.7 | 8.26±S.D.0.41 | 224.9±S.D.160.4 | 20.3 | 2.1 |
| Heron Landing | 26.7±S.D.1.8 | 32705±S.D.2455 | 20.77±S.D.1.71 | 0.08±S.D.0.02 | 1.1±S.D.0.3 | 7.04±S.D.0.67 | -222.3±S.D.47.8 | 111.0 | NA |
| Sanctuary | 31.2±S.D.0.3 | 2467±S.D.95 | 1.29±S.D.0.05 | 7.3±S.D.2.75 | 99.7±S.D.37.9 | 8.48±S.D.0.33 | 206.6±S.D.218.1 | 20.2 | 1.6 |
| The Dunes | 31±S.D.2.4 | 5690±S.D.1522 | 3.13±S.D.0.9 | 5.93±S.D.7.42 | 84±S.D.106 | 8.09±S.D.1.05 | 136.7±S.D.161.6 | 38.2 | 1.4 |

*Table 2. Summary table of the water characteristics over the water column. Means ± standard deviation (S.D.) are shown where appropriate.*

## 2. Water chemistry

### i. Beach Villa pond

Beach Villa pond has relatively low nutrients levels which does not trigger large phytoplankton populations and which allow the water to remain clear. It is well balanced with nutrients and has fair water quality (mesotrophic).

| | Total alkalinity | Chl*a* | NOx | NH4 | TN | SRP | TP | TN/TP | Limitation | TSI(SD) | TSI(Chl*a*) | TSI(TP) | TSI(TN) | TSI(Combo) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ponds | mg/l | µg/l | mg/l | mg/l | mg/l | mg/l | mg/l | no units | P, N, both | a.u. | a.u. | a.u. | a.u. | a.u. |
| Beach Villa | 129.5 | 6.0 | 0.024 | 0.033 | 0.799 | 0.016 | 0.027 | 29.6 | both | 54.3 | 42.7 | 43.3 | 54.8 | 48.7 |
| Bike Path Trail | 194.0 | 36.9 | 0.040 | 0.061 | 2.571 | 0.071 | 0.021 | 125.4 | P | 84.0 | 68.8 | 38.2 | 79.9 | 63.6 |
| Chateau sur Mer | 297.0 | 22.3 | 0.039 | 0.041 | 1.576 | 0.037 | 0.078 | 20.3 | both | 68.6 | 61.5 | 62.9 | 69.4 | 65.4 |
| Golf Course | 192.0 | 31.6 | 0.016 | 0.062 | 2.423 | 0.048 | 0.117 | 20.7 | both | 64.2 | 66.5 | 70.6 | 78.6 | 68.4 |
| Heron Landing | 507.0 | 63.2 | 0.079 | 0.533 | 3.030 | 4.120 | 3.821 | 0.8 | N | 91.5 | 76.5 | 135.4 | 83.4 | 84.0 |
| Sanctuary | 269.0 | 49.6 | 0.025 | 0.049 | 1.965 | 0.284 | 0.650 | 3.0 | N | 54.3 | 73.0 | 102.5 | 74.1 | 63.6 |
| The Dunes | 258.0 | 66.1 | 0.020 | 1.578 | 4.162 | 0.132 | 0.171 | 24.3 | both | 84.6 | 77.2 | 77.6 | 90.3 | 81.9 |

*Table 3. Summary table of the water chemistry and overall water quality assessment via the TSI.*

### ii. Bike Trail pond

Bike Trail pond is quite nutrients rich with especially nitrogen mostly as particulate nitrogen. Ammonia however is not at critical levels for the fish population as the water column is not reducing. Such nitrogen triggers algae blooms which lower the water clarity thus leading to a eutrophic+ pond.

### iii. Chateau-Sur-Mer pond

Chateau-Sur-Mer pond has good amounts of both nitrogen and phosphorus which balance each other and contribute to the grow of a fair about of phytoplankton which attenuates water clarity. The pond has thus eutrophic+ water. Ammonia levels are not critical for the fish populations are the water is not reducing enough.

### iv. Golf Course pond

Golf Course pond has very good amounts of both nitrogen and phosphorus which are in balance and which feed phytoplanktonic populations. The pond has thus eutrophic+ water but ammonia are not of concerns due to low reducing conditions.

#### v. Heron landing pond

Heron Landing has high total alkalinity showing an eventual good connection between the pond water and the surrounding lime rich environment. Such alkalinity could limit algal and SAV growth as carbonates dominate. Cyanobacteria however can thrive in such environments and it seems to be the case as chl *a* concentration is quite high but not enough to compensate the high biological oxygen demand of the water and likely of the sediment. Nitrogen, but especially, phosphorus (*a fortiori* as labile phosphorus) levels are especially high in this pond and drive the TSI to hypereutrophy+. The pond is limited in nitrogen which can select nitrogen fixing cyanobacteria but with such high levels of nutrients, it is doubtful that any limitation exists. Ammonia levels are high linked especially to the reducing properties of the water (i.e. low ORP).

#### vi. Sanctuary pond

Sanctuary pond has high nitrogen and very high phosphorus contents. Nitrogen still in not reduced to alarming levels of ammonia because of the non-reducing conditions. Such nutrients should have driven to higher phytoplanktonic populations and it is hypothesized that there is some pond management which limits the algal growth via the aerator present as well as eventually the use of xenobiotics. The water indeed remains fairly clear and thus reduces artificially the TSI to eutrophic+ (in lieu of hypereutrophic).

#### vii. The Dunes pond

The Dunes pond has very high nitrogen and phosphorus contents. The reducing conditions of the water (even if ORP is not negative) drive the ammonia levels high so that fish could be harmed. The nutrients, mainly in the labile form, allow algae to thrive and make the water turbid which all drive the TSI to hypereutrophic+.

## 3. Conclusions

A correlation matrix was run between all the parameters measured for this study (Appendix 4). As for most water bodies, salinity is a main driver of these hydrosystems since it was positively correlated with the turbidity and therefore was negatively correlated with the Secchi disk and euphotic zone depths. More saline ponds had lower temperature, lower DO, pH, ORP but higher TP, SRP, total alkalinity and NOx. Large ponds with large volume, surface area and mean depth also had larger water concentration in ammonia and TN. Water TN and Chlorophyll *a* mainly drove the TSI of all the ponds. Hypereutrophic ponds had reducing water column properties which drove ammonia to alarming levels which as bioavailable nutrients fed algae growth which reduced water clarity.
However, Sanctuary pond slightly deviates from his expected hypereutrophy because its water is likely highly managed in such a way that its water column remains relatively clear and with less phytoplankton

than one would expect. Because of its large size and despite some managements, The Dunes pond water quality is not improved, even artificially as it is the case for the much smaller Sanctuary pond.
Heron Landing also is different than the other ponds because of the extreme conditions this pond is encountering as its high biological oxygen demand masks the photosynthesis DO production.

## E. Sediment characteristics

### 1. Methods.

Sediment coring locations were determined upon the mapping of the bottom hardness via sonar (black dots on maps). Sediment coring was performed from a Jon boat or an aluminum 14' canoe using a handheld push corer. The corer was made of interlocking 2" PVC sections upon which a clear acrylic tube of inner diameter 6.35cm (2.5") was mounted (Appendix 3). The one-way valve of the corer allowed the water to flow one way as the corer was lowered in the water column and the acrylic core pushed through the sediment. The acrylic core was pushed in the pond's bed until rebuttal and then brought to the surface. The one-way valve held the sediment material in the acrylic tube until the surface. At the surface, the base of the acrylic tube was capped with a rubber stopper #13 to create a good seal.

Once on the boat deck, the corer was uncoupled from the acrylic tube and the tube's apex was capped with a second rubber #13 stopper. A 12MP picture of the core was then taken against a white erase board with an Olympus tough TG-1 after the total sediment core length was recorded. For the cores selected for their content analysis, sediment material was extruded upward by pushing up a piston inserted at the bottom of the tube (after the basal rubber stopper was removed). Once the sediment material was flushed to the opening of the acrylic tube, the depth of the floc layer was measured to the nearest ½ cm by letting a plastic ruler sink through it under its own weight. The flocculent layer was then sampled and kept in a ziplock bag chilled in a cooler packed with crushed ice.

The sediment was then pushed upward and its thickness measured to the nearest ½ cm until either sand, peat, clay or limestone was reached. The sediment was collected in a bucket then mixed and stored in a ziplock™ bag chilled in the cooler. All the other layers underneath the sediment were characterized, measured to the nearest cm then discarded.

Once in the laboratory, part of the sediment or floc was dried until constant weight in a drying oven set at 80 ºC (DW) and then combusted at 550ºC for one hour. The ash weight was then determined (AW) and the ash free dry weight deducted (AFDW). The organic content was finally computed as AFDW/DW (ASTM D2974-87). Another fraction of the sediment or floc was dried in the oven until constant weight, then grinded to a fine powder with a Belart MICRO-MILL® grinder. A few grams of powdered sample were then sent to the SERC/FIU laboratory for the analyses of total phosphorus (TP), total carbon (TC) and total nitrogen (TN) which were reported in g/g DW or % DW. Total phosphorus in sediments was determined using the ashing/acid hydrolysis method of Solorzano and Sharp (1980) with the resulting soluble reactive phosphorus (SRP) being measured as SRP in water (EPA365.1). Sediment TC and TN were analyzed using Perkin Elmer Series II 2400 CHNS/O Analyzer (Nelson and Sommers 1996).

### 2. Results and discussion

Using the correlation matrix (Appendix 4), sediment and floc characteristics had poor relationships with the water quality. This normally is the case in other ponds in the region and this could be linked to the fact that

there was only one water quality assessment over the course of a hydrologic cycle whereas water sampling once a month was conducted for the other studies that our group conducted. However, when the sediment and floc data are compared to one another, it was found that for the same core, a thick layer of floc would equate to a thick layer of sediment. The nutrient contents of these two layers did not show much correlation though. Nevertheless, for both the floc and the sediment of the same core, high nitrogen content equated to high carbon and organic content. This shows that the sediment and floc were organic and thus would leach nutrients to the water column as they are degraded. The phosphorus content did not exhibit this pattern but this could be linked to the fact that the analysis of TP was not made through a TP fractionation process which is long, costly and laborious but which would have allowed to separate the various forms of P found in the core and especially tease apart the labile and refractory forms of P.

Overall, the combined sediment and floc accumulation in all the ponds was less than 30cm which is the arbitrary threshold that has been arbitrarily used to determine whether dredging ought to be necessary. Thus, based upon this figure, it appears that all the ponds have not reached that threshold yet. Beside Chateau-Sur-Mer with an overall low sediment and floc accumulation (7.2cm in average), all ponds have accumulated about the same amount of sediment regardless of their current TSI (9.3 to 12.8 cm in average). The Dunes pond had very long sediment accumulation on its shelf but this was compensated for by a much higher sediment accumulation pass the littoral zone.

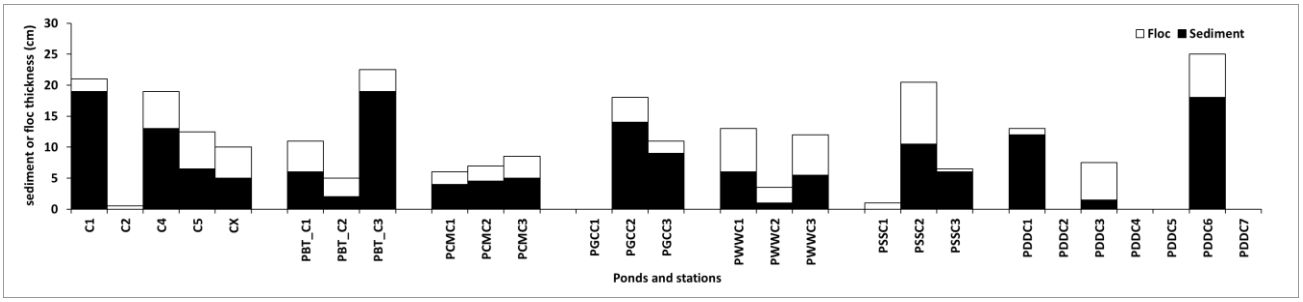



*Figure 26. Sediment and floc accumulation for all the ponds at their stations selected for coring.*

Nutrient content in the sediment is also a factor to consider for dredging and overall management decisions. Beside the relatively low sediment and floc accumulation, the amount of nutrients appears to be high when compared to other ponds in Lee and Collier counties and mainly located within Bayside Bay Creek Community Development Districts (CDDs referred as Pelican Landing in Estero and Bonita Springs, Thomas, 2015).

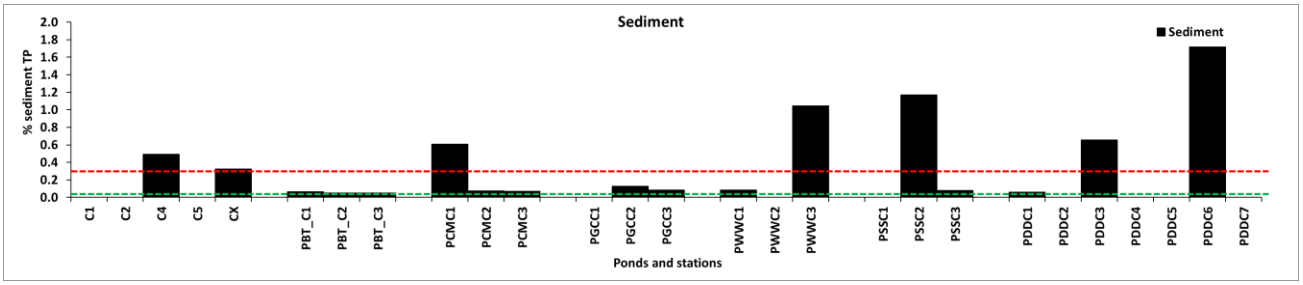



*Figure 27. TP content in the sediment (2% TP equates to 20,000µg/g). The red dotted line refers to the average TP content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

It is noteworthy to point out that sediment nutrient has often more P than for the floc. This is unusual but might be linked that most P is refractory in the sediment and less refractory in the floc. Thus, the P content of the muck of the ponds studied is high, especially for the floc TP content alone.

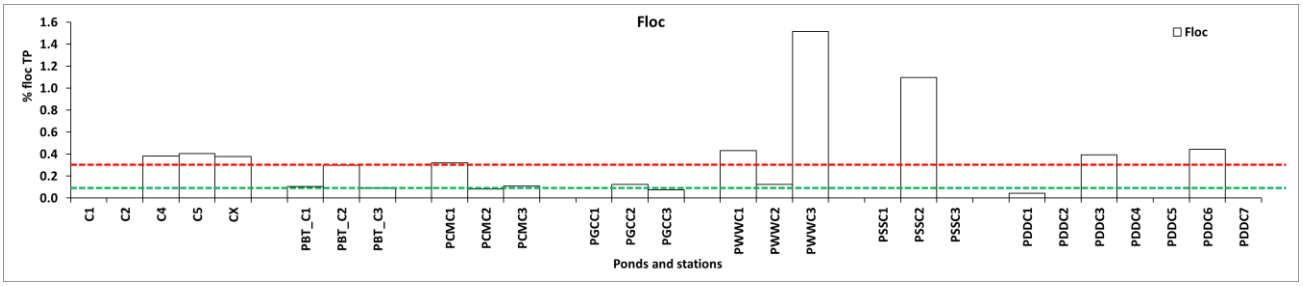



*Figure 28. TP content in the floc (2% TP equates to 20,000µg/g). The red dotted line refers to the average TP content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

Sediment and floc TN (as well as TC and organic content since these are all highly correlated, so they are implicitly discussed below) were also higher than other ponds in Lee and Collier Counties. TN was more in the floc than in the sediment and has high potential for leaching back into the water column and create algae blooms (especially since the TSI is driven mainly by TN and Chlorophyll *a*). Besides for Golf Course pond, the sediment in the golf course ponds (The Dunes and Sanctuary) had high maxima.

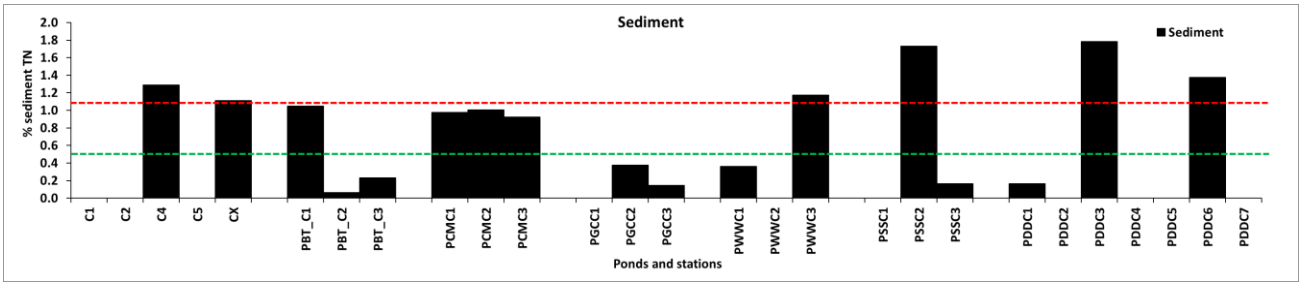



*Figure 29. TN content in the sediment. The red dotted line refers to the average TN content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

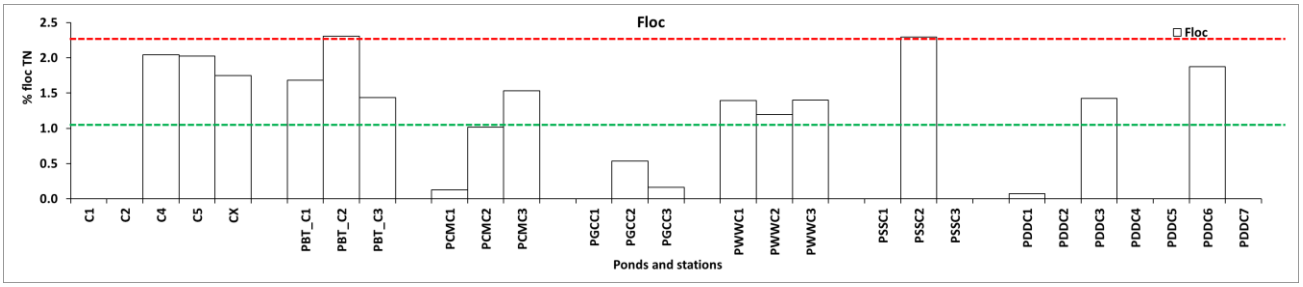



*Figure 30. TN content in the floc. The red dotted line refers to the average TN content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

This was also the case for Beach Villa pond which could be linked to the high leaf litter deposits which were found in great abundance in the cores. TN in the floc was especially high except for the Golf Course pond which overall and regardless of the nutrient considered had the “healthiest” muck.

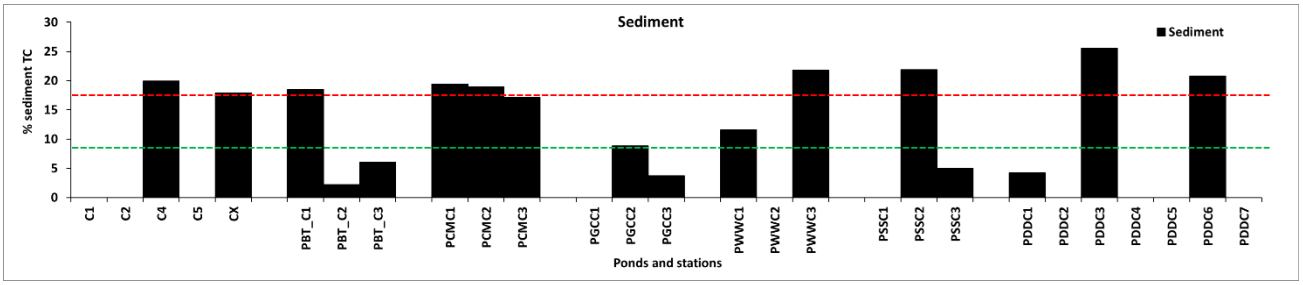



*Figure 31. TC content in the sediment. The red dotted line refers to the average TC content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

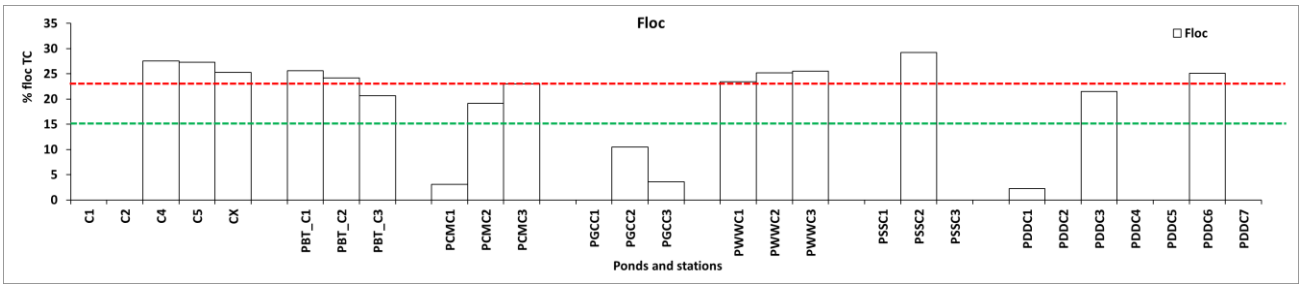



*Figure 32. TC content in the floc. The red dotted line refers to the average TC content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

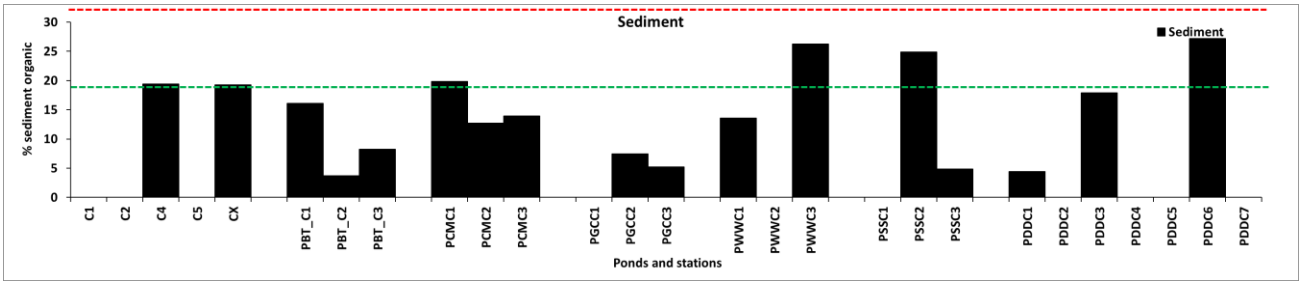



*Figure 33. Organic content in the sediment. The red dotted line refers to the average organic content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

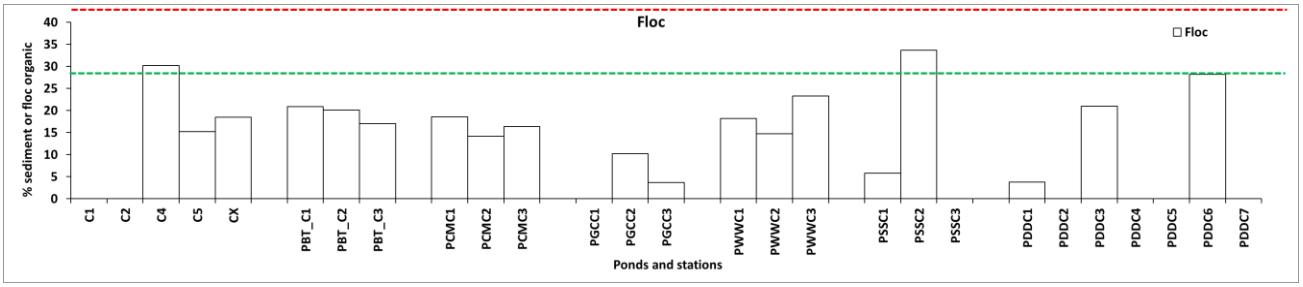



*Figure 34. Organic content in the floc. The red dotted line refers to the average organic content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

## F. Closing thoughts

A principal component analysis (PCA) was run in Primer-e 7 (www.primer-e.com) to assess how similar the ponds were from one another while considering all the parameters discussed in this study (cf. Appendix 4 for correlation matrix and Appendix 5 for the values of these parameters). All parameters were kept (even the redundant ones) so that the observed grouping in the hyperspace but reduced to a 3-axis volume encompassing for 79.3% of the variation are accurate. Another PCA was run when the redundant variables (those with a positive or negative correlation over 80%) were removed but ponds did not group (PCA not shown).

The two first axes of the PCA (ran on a normalized matrix after transformations were made to approach data normality) represented 63.5% of the hyperspace variability and with three axes, 79.3% of the variability was represented. The PCA shows that Bike Trail, Chateau-Sur-Mer and Sanctuary were most similar especially when the two first axes (1 and 2) were considered. Salinity is mainly representing axis 1 positively while temperature represents it negatively. Axis 2 represents positively the sediment and floc thickness and negatively the volume of the pond. Finally, axis 3 is mostly driven positively by the bottom hardness and negatively by the sediment and floc nutrients.

In this tri-dimensional scale, Heron Landing stands apart because of its high salinity while the Dunes is especially different because of its large size. Bike Trail, Chateau-Sur-Mer and Sanctuary are most similar while Beach Villa and especially Golf Course are distant from this group.

Overall, most of the ponds studied had nutrients issues whether these nutrients were found in the water column (all ponds but Beach Villa) or in the sediment or floc (all ponds besides Chateau-Sur-Mer). Beach Villa likely receives most of its nutrients via leaf litter because the pond is small and surrounded by trees, and has in consequence higher coarse organic particulates inputs (in the sense of the River Continuum concept, Vannote et al. 1980). Such inputs should be limited over time as these would eventually turn the system eutrophic. Most ponds had high levels of nutrients in the sediment and floc and since these two parameters reflect a much longer term than the water column analyses, there is evidence of cultural eutrophication especially from P as well as N. Efforts should be made to limit such nutrients loading. Some small ponds especially could benefit from local dredging done using the bottom hardness maps provided. For the larger ponds like The Dunes, intense aeration which would benefit aerobic digestion should be envisaged. The nutrients released from aeration should be captured by littoral planting which would benefit from clearer water. Flocculation of the particulates in the water would immediately improve water clarity and could be done in conjunction of aeration and planting.

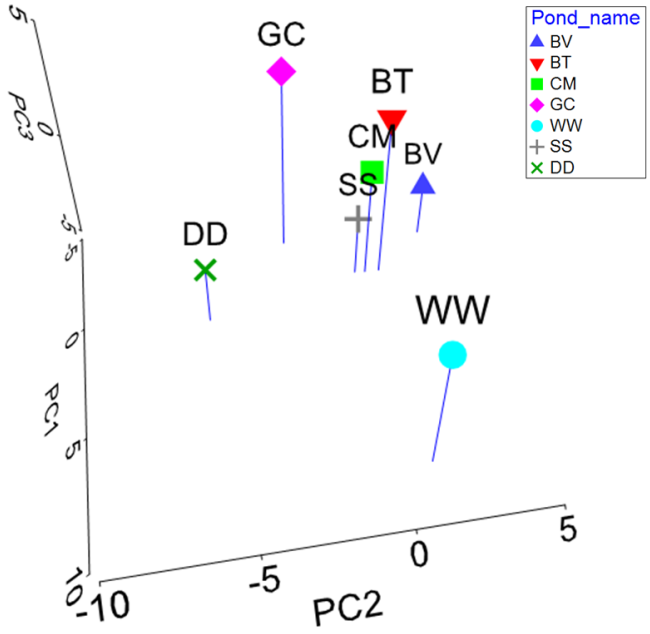



*Figure 35. Pond grouping subsequent to running a PCA on all the parameters from this study (see Appendix 5 for these parameters). BV= Beach Villa, BT= Bike Trail, CM=Chateau-Sur-Mer, GC= Golf Course, WW=Heron Landing, SS= Sanctuary and DD= The Dunes.*

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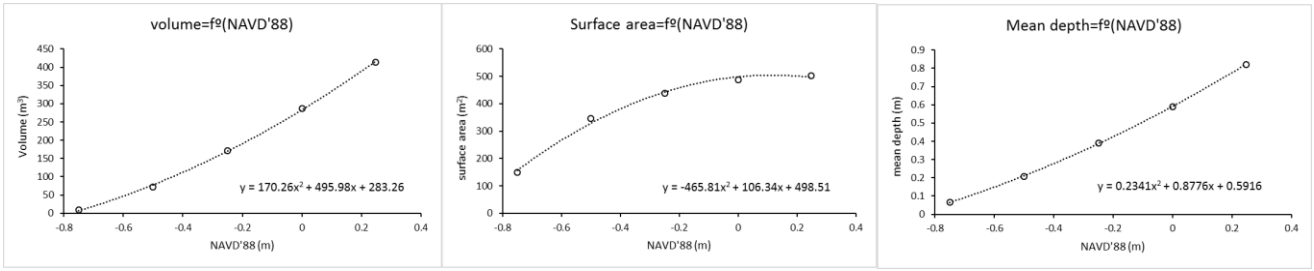
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## Appendix 1. Morphometric relations

These relationships relate the water level elevation expressed in NAVD'88 with the volume, the surface area of pond bed and the mean depth. The elevation of the top portion of the wooden post is provided as well as the elevation of the water level when the bathymetry was conducted.

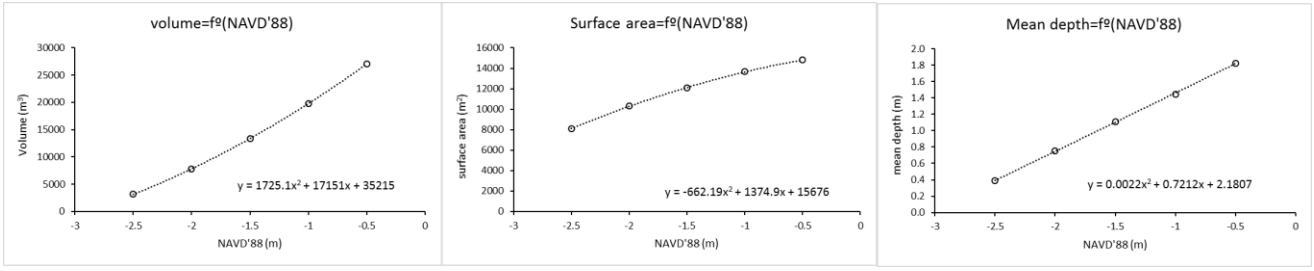
1. Beach Villa pond (2/15/17)




*Appendix1_ 1. Morphometric relations for Beach Villa pond*

Water level: 0.247m, top of post 1.307m

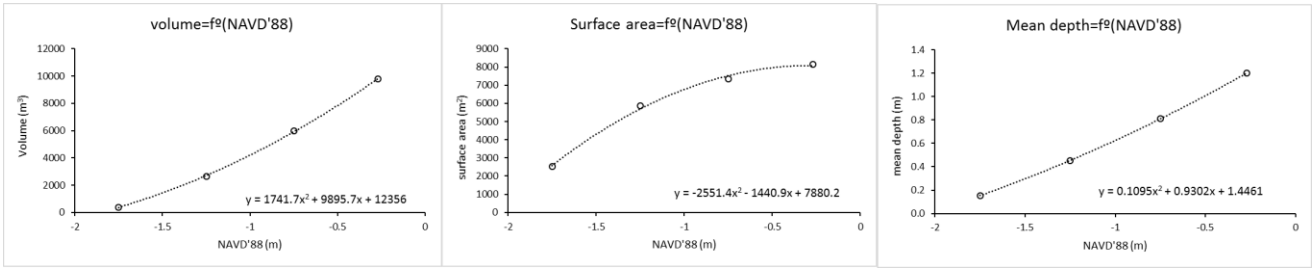
2. Bike Trail pond (2/17/17)




*Appendix1_ 2. Morphometric relations for Bike Trail pond*

Water level: -0.5m, top of post 0.450m

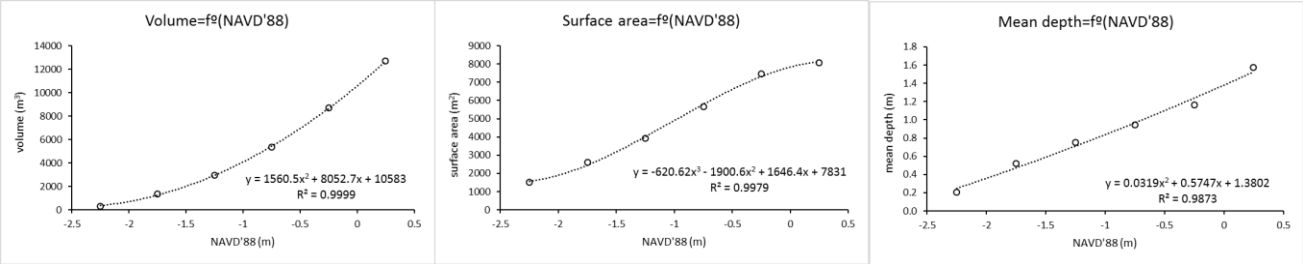
3. Chateau-Sur-Mer pond (2/15/17)




*Appendix1_ 3. Morphometric relations for Chateau-Sur-Mer pond*

Water level: -0.267m, , top of post 0.563m

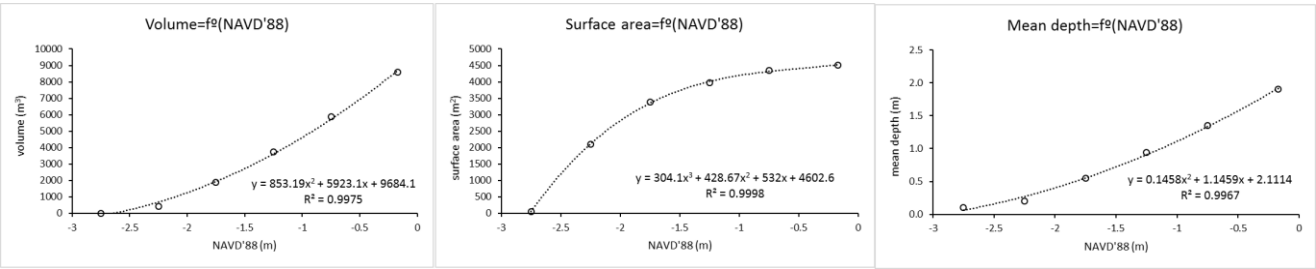
4. Golf Course pond (2/17/17)




*Appendix1_ 4. Morphometric relations for Golf Course pond*

Water level: 0.247m, top of post 1.442m

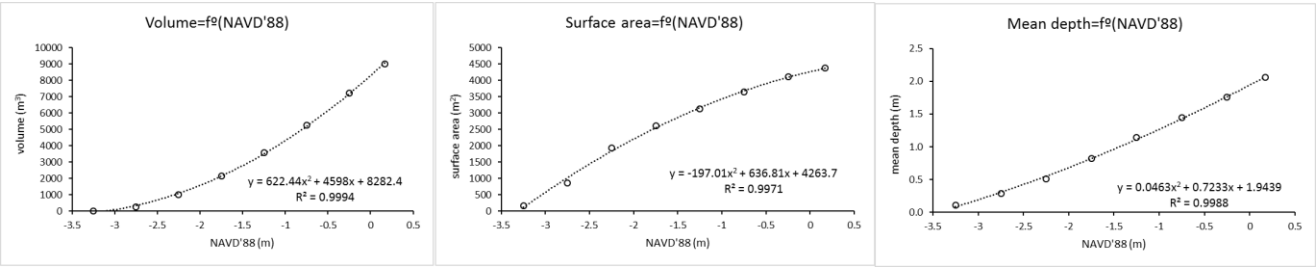
5. Heron Landing pond (3/22/17)




*Appendix1_ 5. Morphometric relations for Heron Landing pond*

Water level: -0.166m, top of post 0.234m

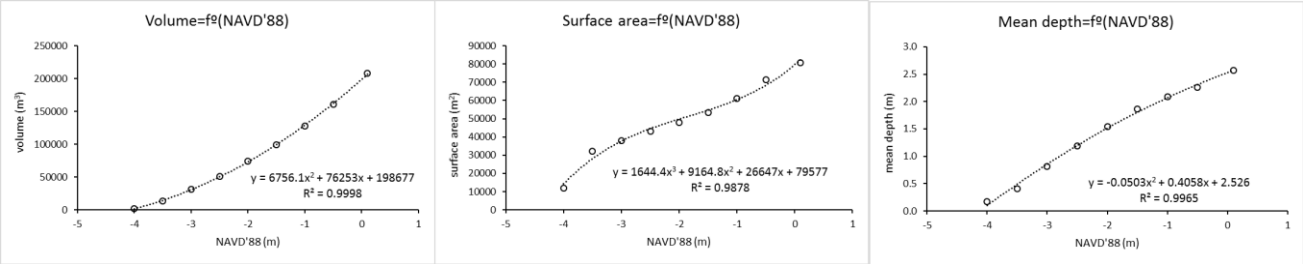
6. Sanctuary pond (3/6/17)




*Appendix1_ 6. Morphometric relations for Sanctuary pond*

Water level: 0.166m, top of post 0.686m

7. The Dunes pond (3/6/17)

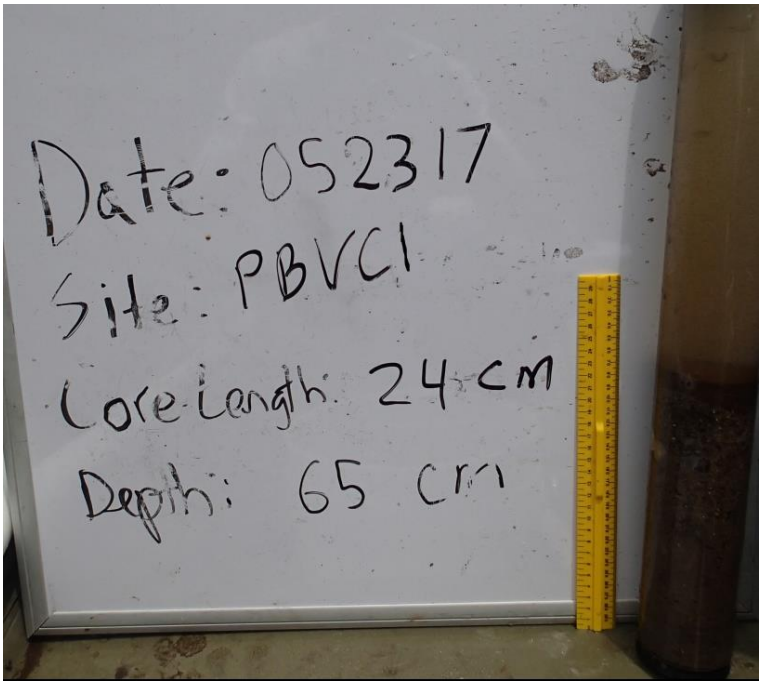



*Appendix1_ 7. Morphometric relations for The Dunes pond*

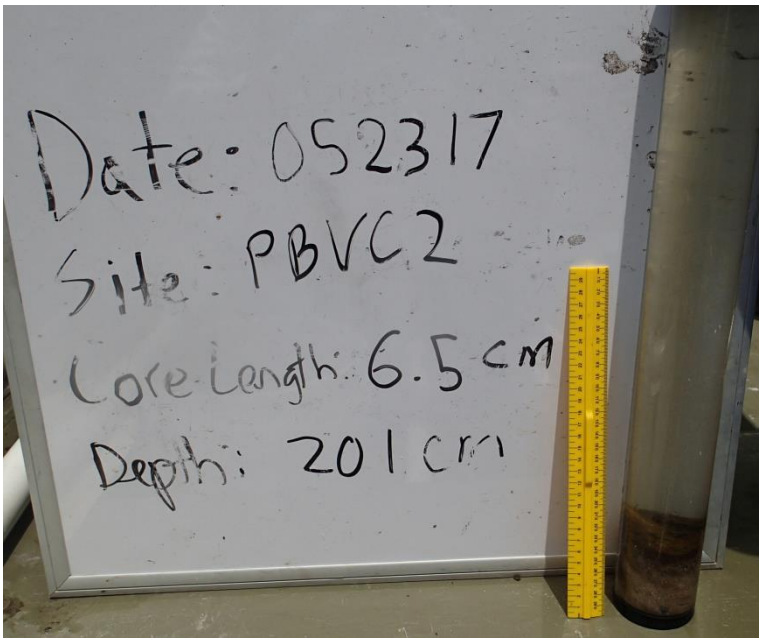
Water level: 0.103m, top of post 0.623m

Appendix 2. Pictures of cores.

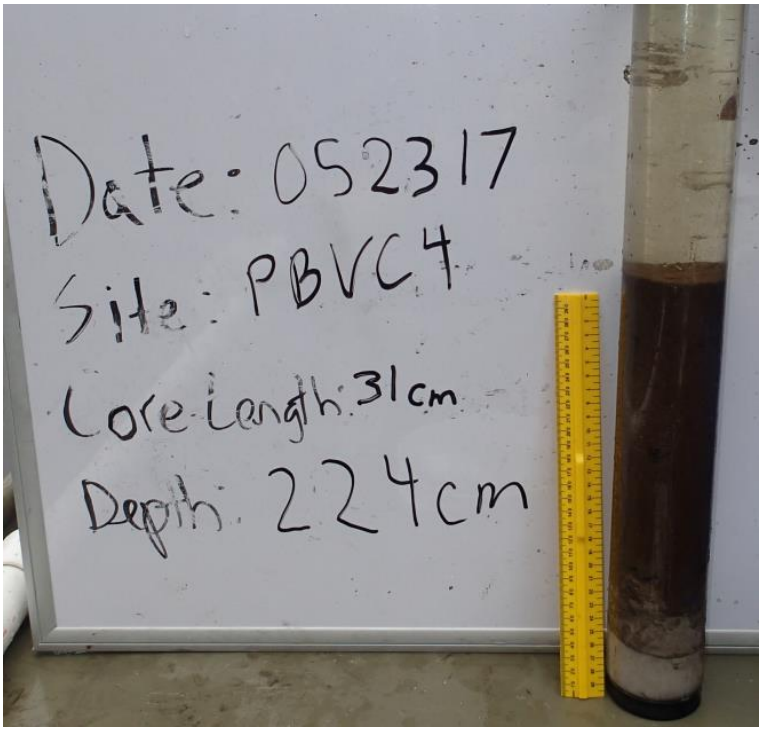
1. Beach Villa pond (2/15/17)




*Appendix2_ 1. Core 1, Beach Villa pond.*



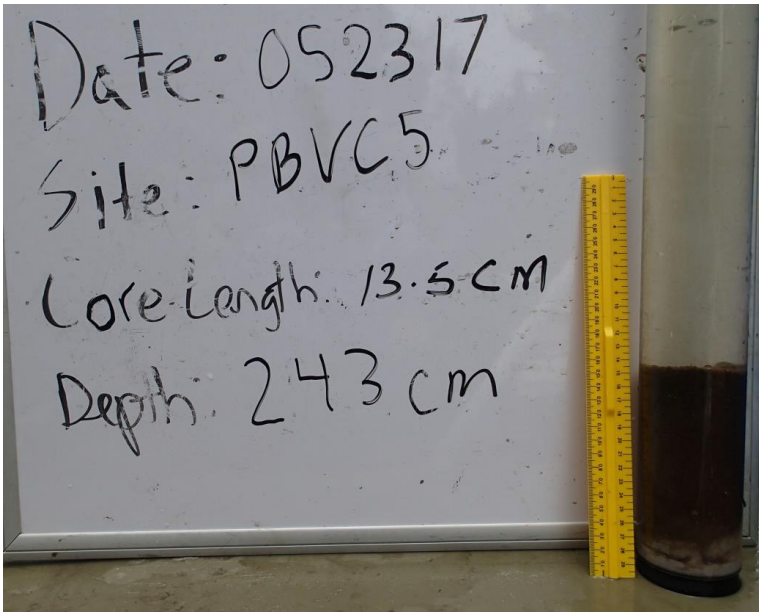

*Appendix2_ 2. Core 2, Beach Villa pond.*



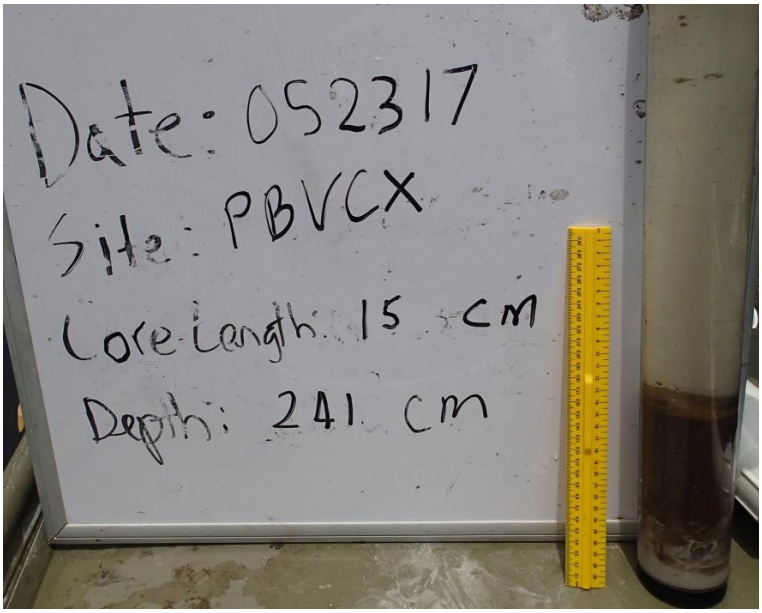

*Appendix2_ 3. Core 4 in Beach Villa pond*



*Appendix2_ 4. Closeup of sedimentary material in core 4, Beach Villa pond.*

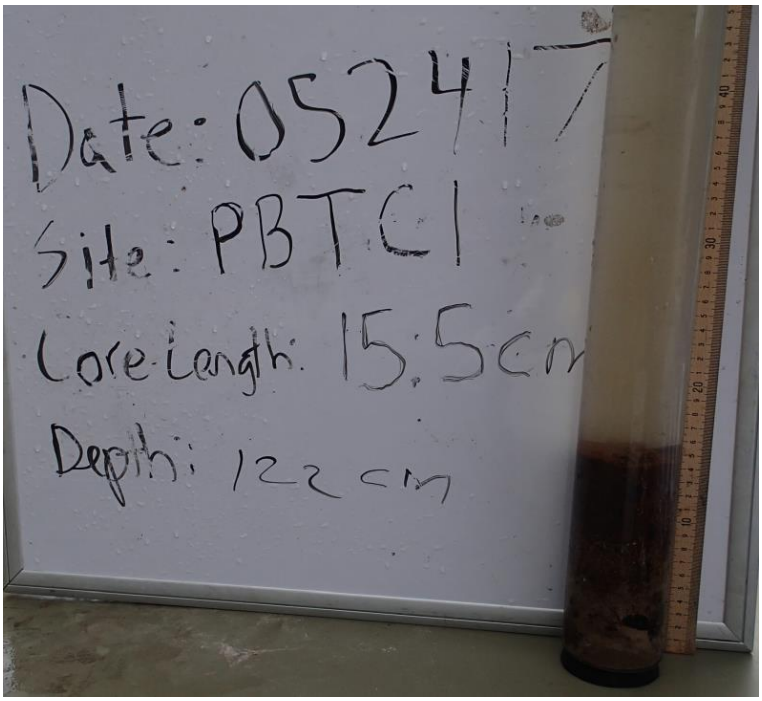



*Appendix2_ 5. Core 5, Beach Villa pond.*

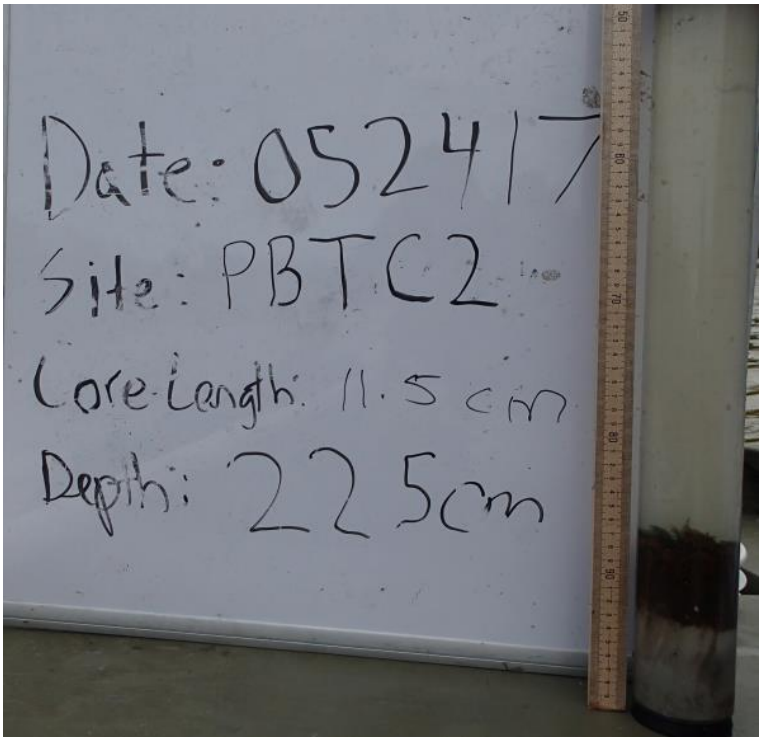



*Appendix2_ 6. Core X, Beach Villa pond.*

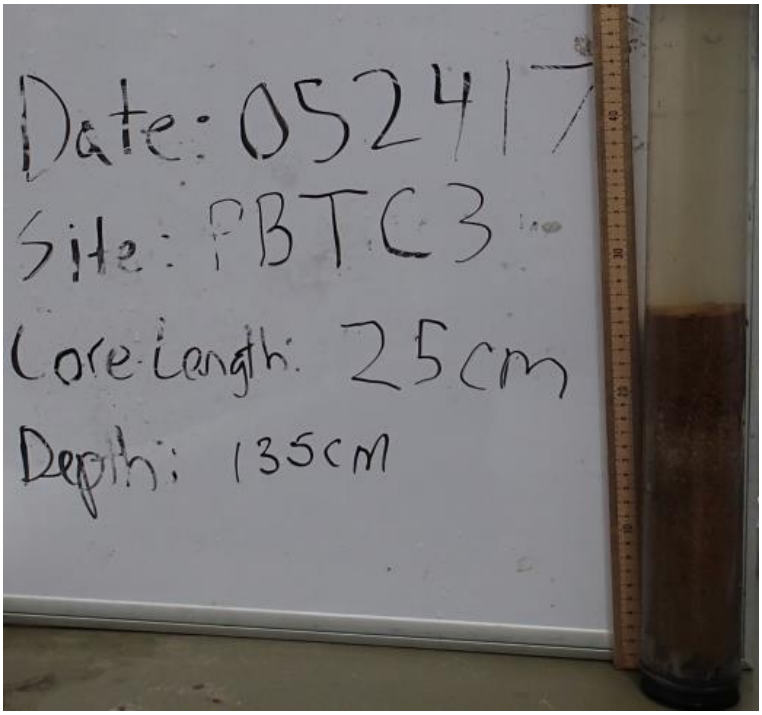
2. Bike Trail pond (2/17/17)




*Appendix2_ 7. Core 1, Bike Trail pond.*

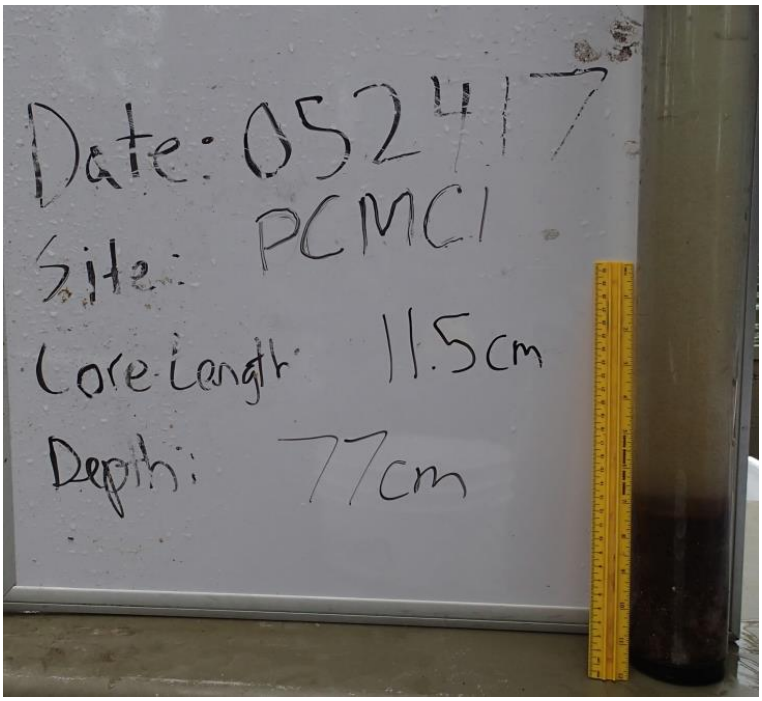


*Appendix2_ 8. Core 2, Bike Trail pond.*

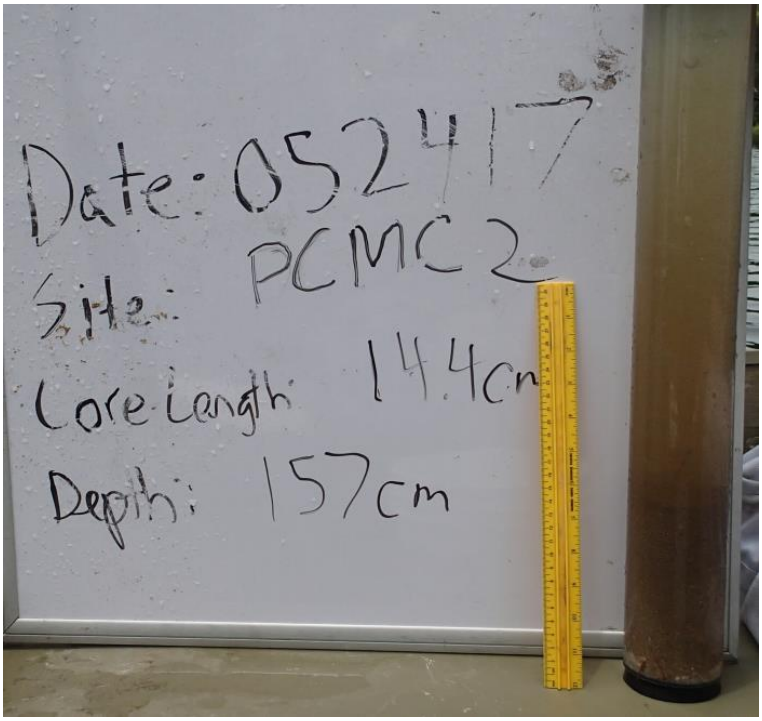



*Appendix2_ 9. Core 3, Bike Trail pond.*

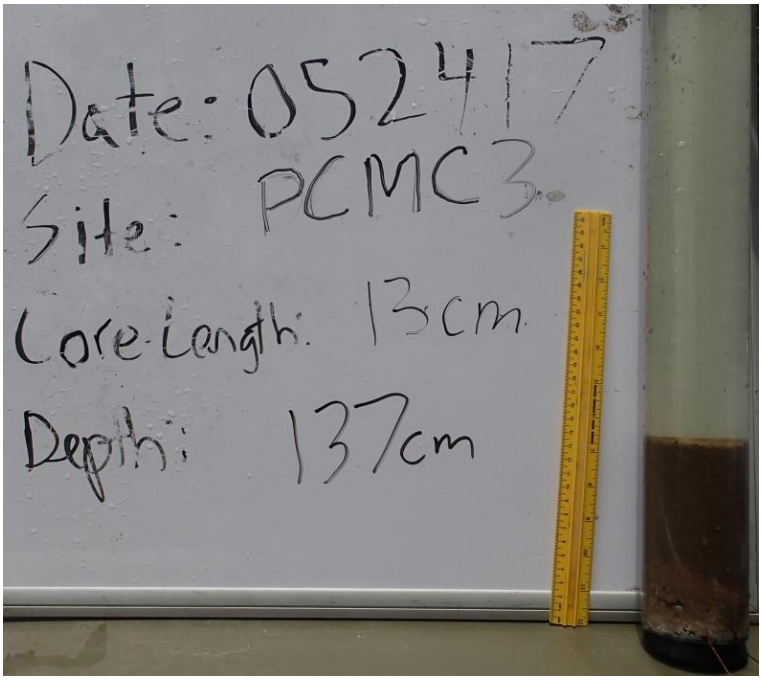
3. Chateau-Sur-Mer pond (2/15/17)



*Appendix2_ 10. Core 1, Chateau-Sur-Mer pond.*




*Appendix2_ 11. Core 2, Chateau-Sur-Mer pond.*

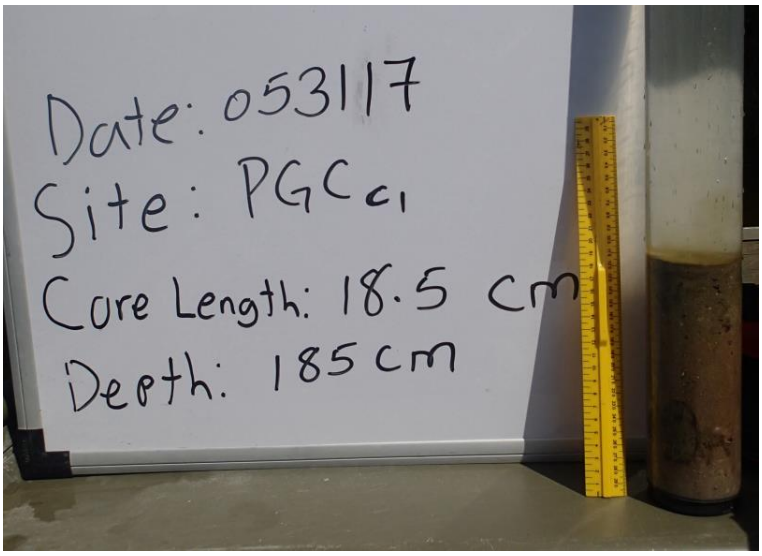



*Appendix2_ 12. Core 3, Chateau-Sur-Mer pond.*

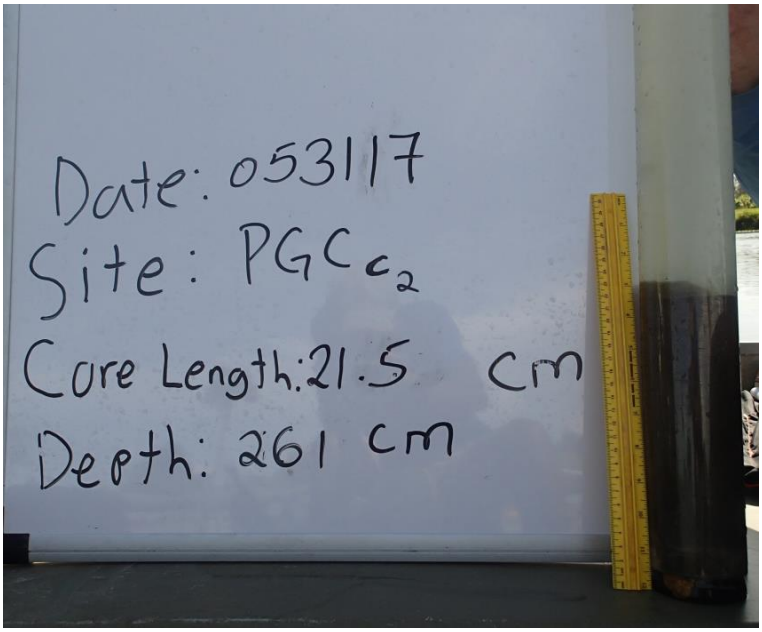


*Appendix2_ 13. Closeup of sedimentary material in core 3, Chateau-Sur-Mer pond.*

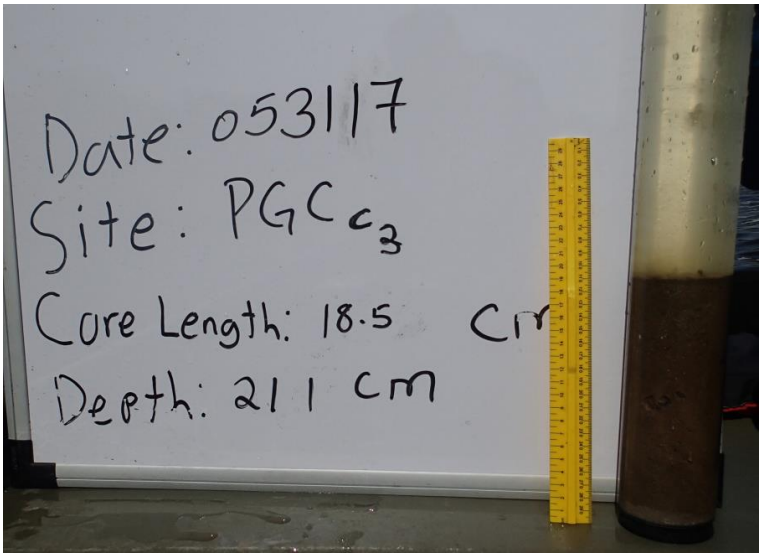
4. Golf Course pond (2/17/17)




*Appendix2_ 14. Core 1, Golf Course pond.*

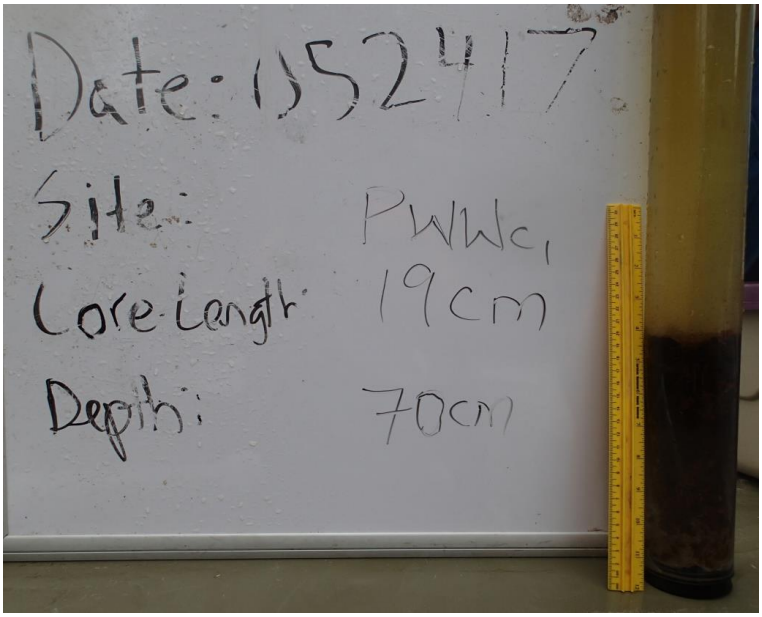



*Appendix2_ 15. Core 2, Golf Course pond.*

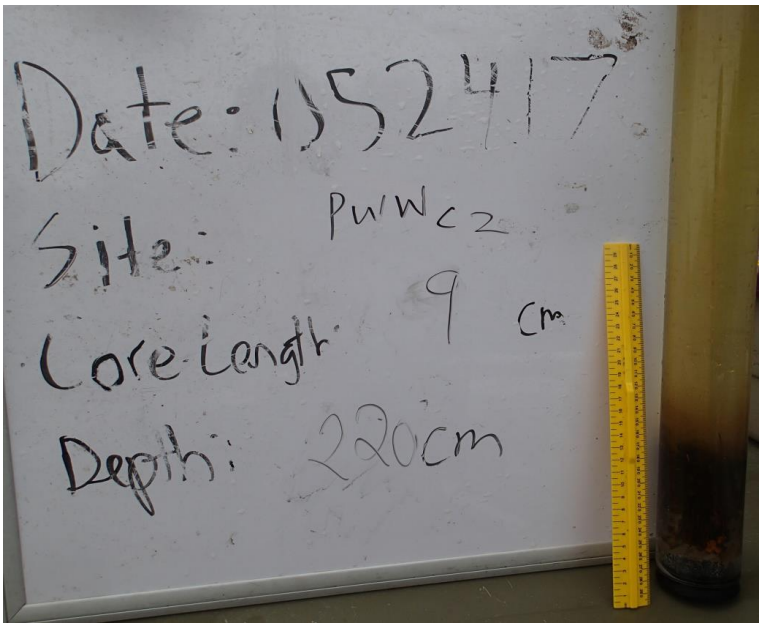



*Appendix2_ 16. Core 3, Golf Course pond.*

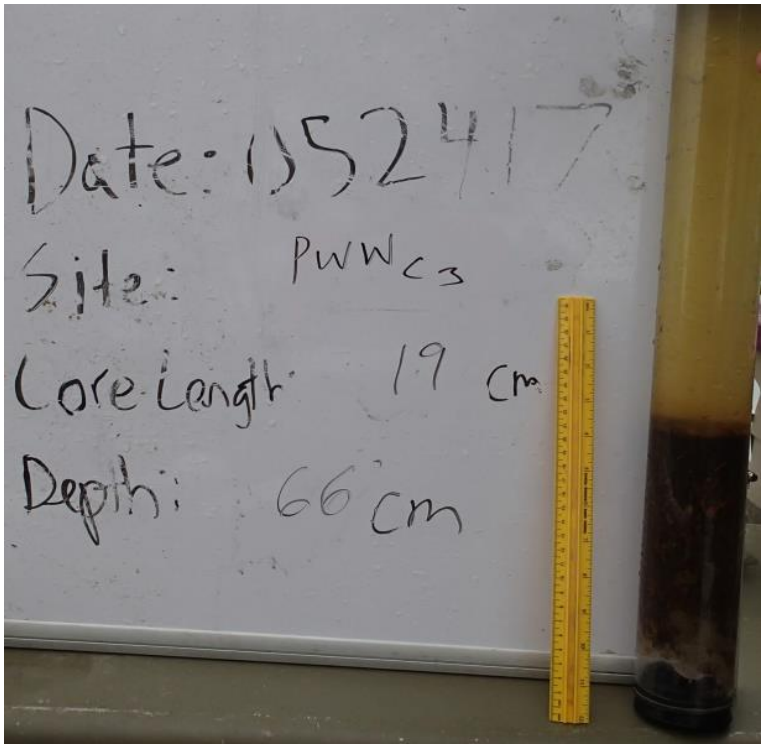
5. Heron Landing pond (3/22/17)




*Appendix2_ 17. Core 1, Heron Landing Pond*

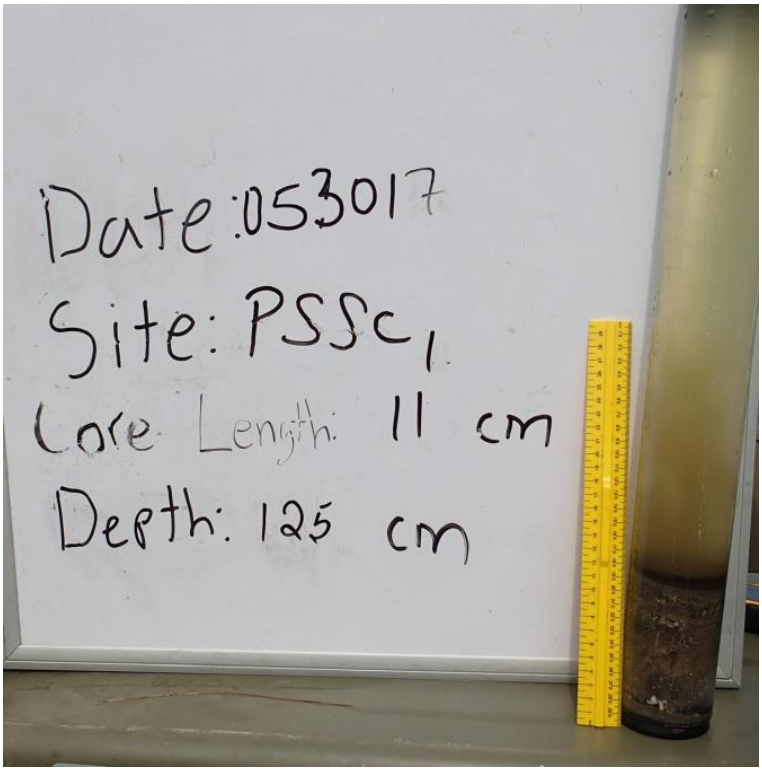



*Appendix2_ 18. Core 2, Heron Landing Pond*

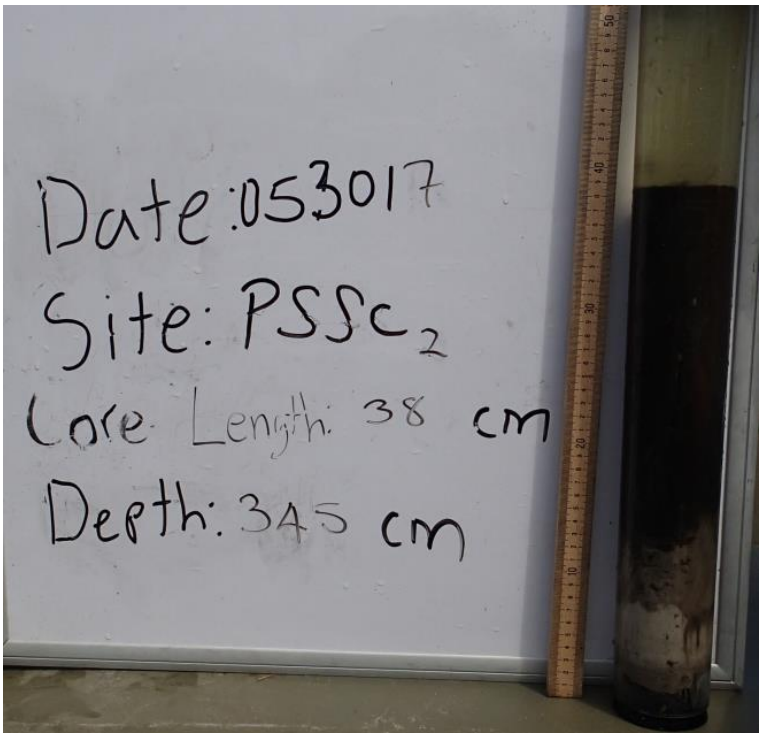



*Appendix2_ 19. Core 3, Heron Landing Pond*

6. Sanctuary pond (3/6/17)



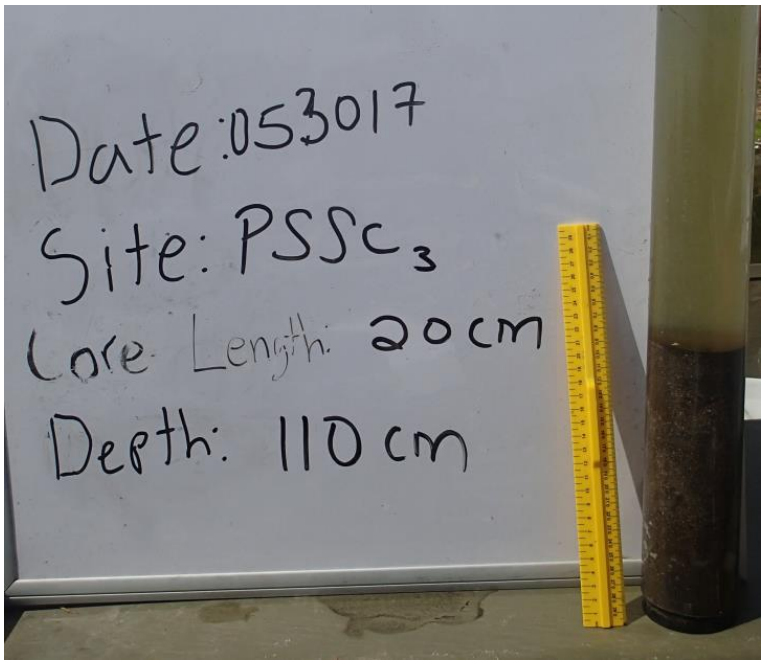

*Appendix2_ 20. Core 1, Sanctuary Pond*




*Appendix2_ 21. Core 2, Sanctuary Pond*

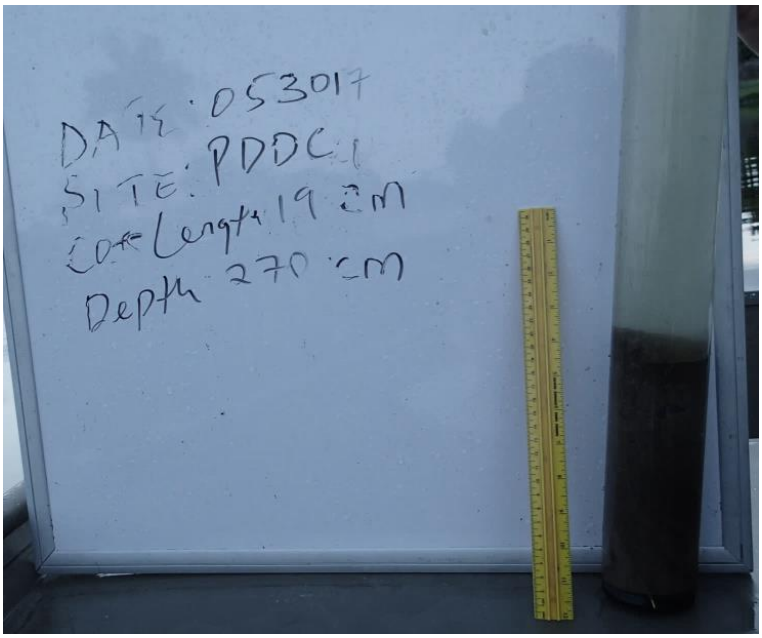


*Appendix2_ 22. Closeup of sedimentary material in core 2, Sanctuary Pond*

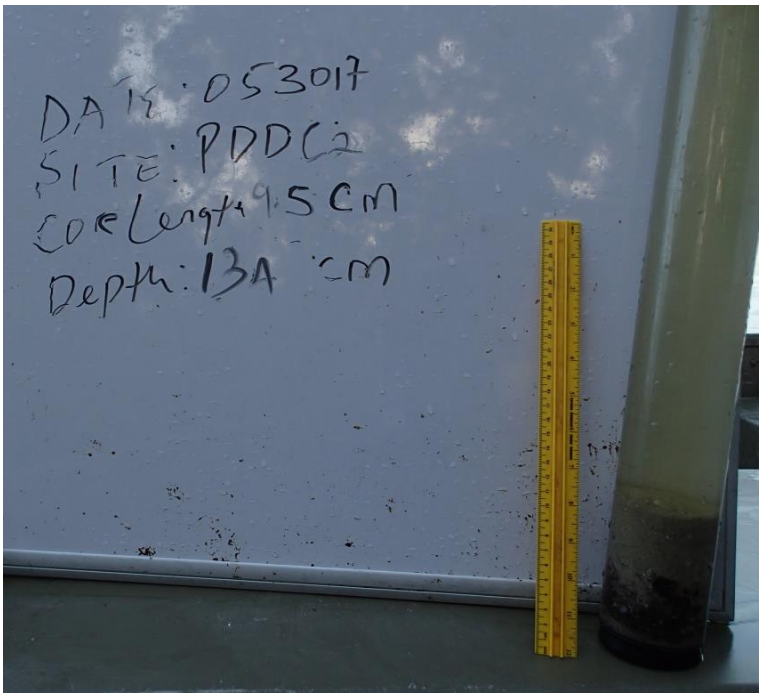


*Appendix2_ 23. Core 3, Sanctuary Pond*

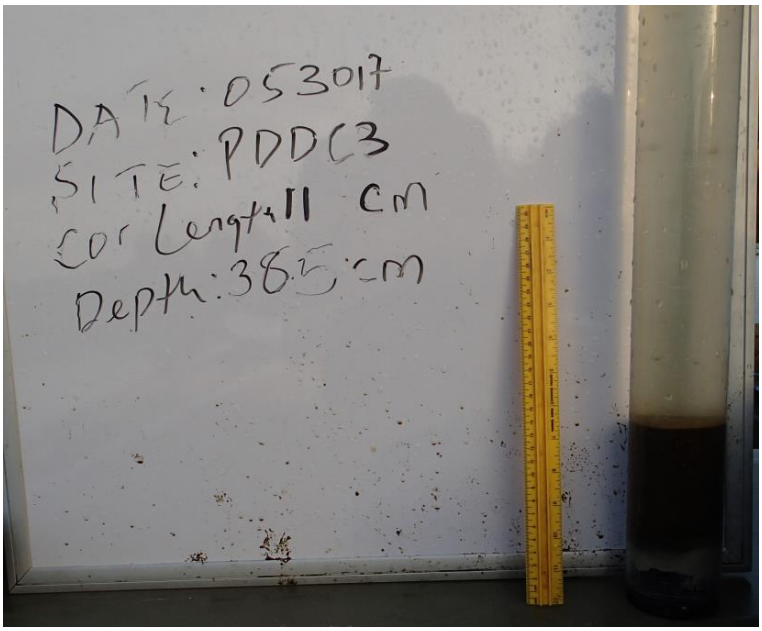
7. The Dunes pond (3/6/17)



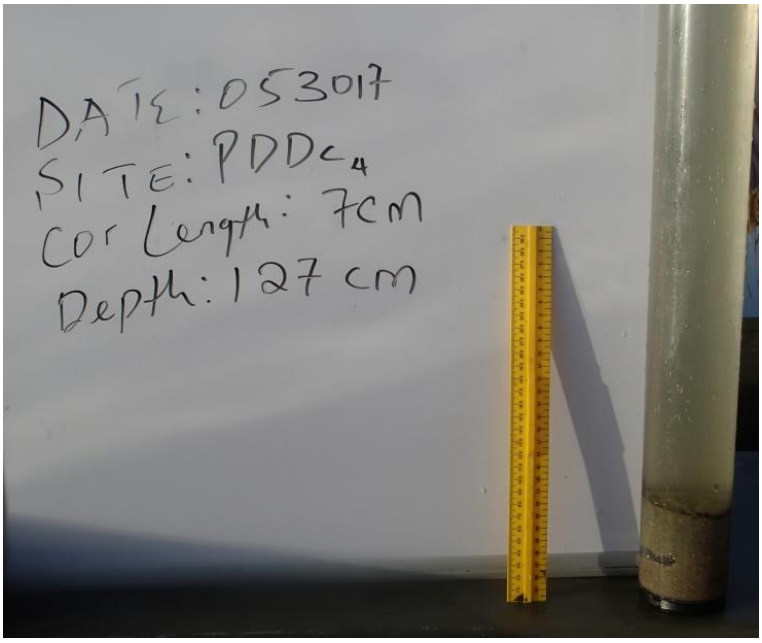

*Appendix2_ 24. Core 1, The Dunes Pond*



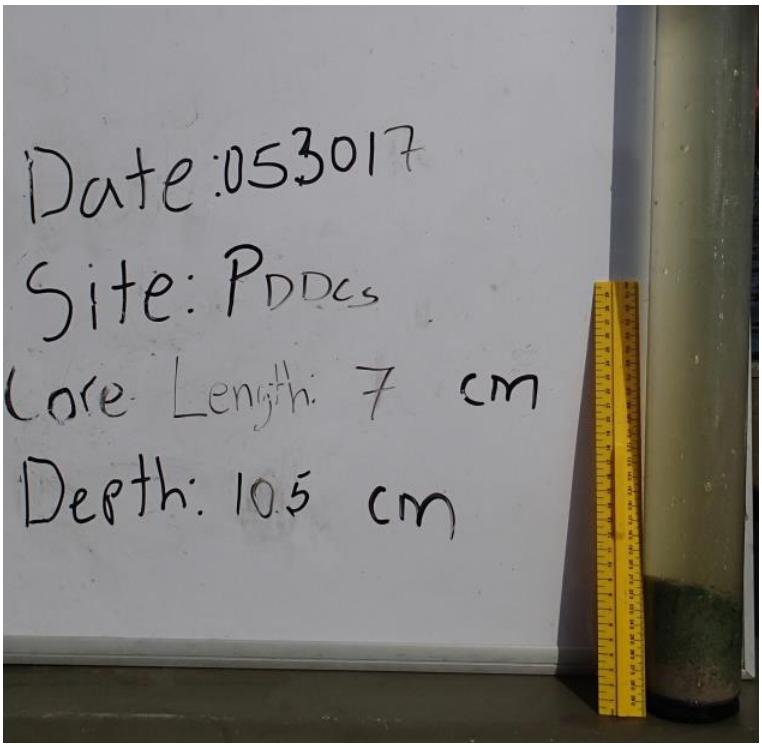

*Appendix2_ 25. Core 2, The Dunes Pond*



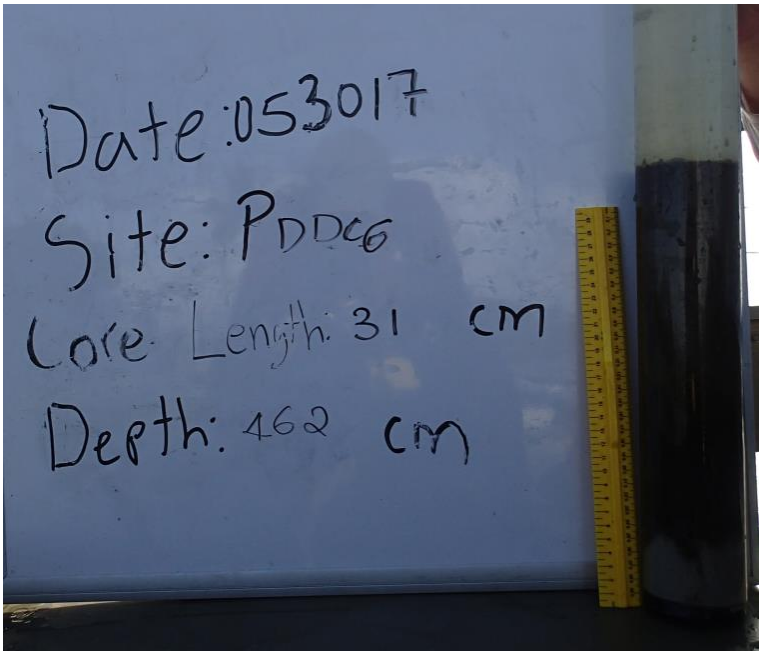

*Appendix2_ 26. Core 3, The Dunes Pond*



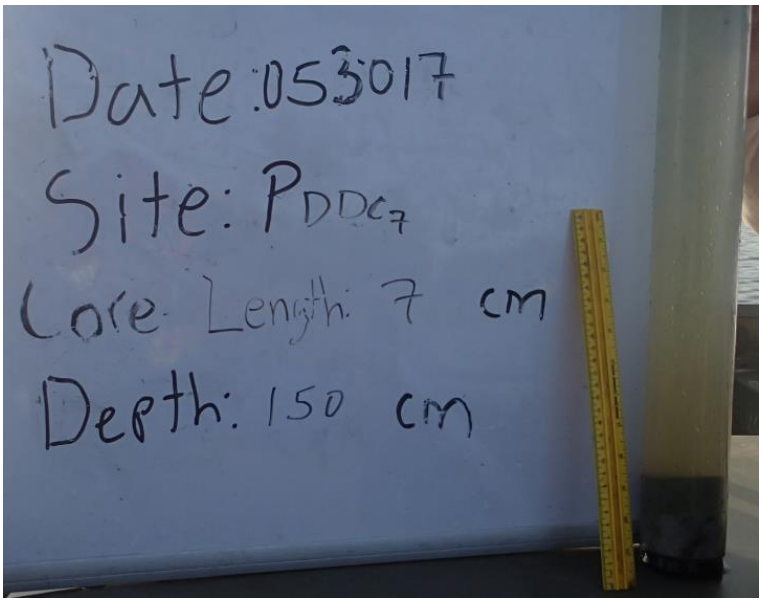

*Appendix2_ 27. Core 4, The Dunes Pond*




*Appendix2_ 28. Core 5, The Dunes Pond*

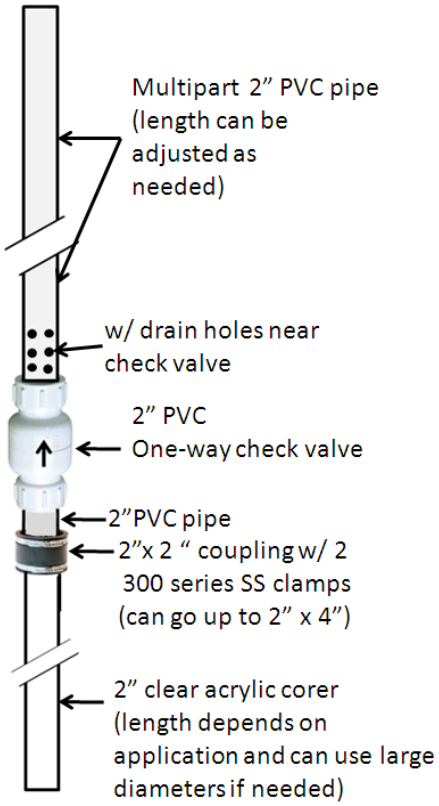



*Appendix2_ 29. Core 6, The Dunes Pond*




*Appendix2_ 30. Core 7, The Dunes Pond*

**Appendix 3. Corer design**




The piston consists of a 2" one-way check valve (Mfg# 101-108HC). This piston features spring-loaded poppet and stainless-steel spring with O-ring seal.

The arrow on the check valve shows that water can move only in one direction (upward in our case). The length of the clear acrylic core used depends on the intended depth of the core. Retrieving 2-m cores with this system is not a problem.

Depending on the water depth, the length of pipe above the check valve can be adjusted.

Once the corer is assembled, it is lowered until the sediment is reached, then pushed down to the desired depth, then pulled up to the surface. The water inside the pipe above the check valve is drained through the drain holes.

With the clear acrylic (or CAB) corer still in the water, a rubber is inserted at the open end, and then the corer is lifted outside the water.

The acrylic core is separated from the coupling using an electric screwdriver.

## Appendix 4. Similarity matrix showing the correlations between the different parameters measured

| | NAVD | Vol | SA | Mean Depth | bed_hard | Temp | cond | sal | DO | pH | ORP | Turb | Zeu | SD | Zmax | AT | Chla | NOx | NH4+ | TN | TP | SRP | TN:TP | TSI | Core_Z | Floc_l | Sed_l | Floc_sed_l | Sed_TP | Sed_N | Sed_C | Floc_TP | Floc_N | Floc_C | Sed_org | Floc_org |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vol | 12% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA | 8% | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean Depth | -3% | 100% | 70% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bed_hard | 3% | 70% | 70% | 63% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp | 59% | 12% | 13% | -10% | -10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| cond | -39% | 18% | 18% | | 35% | -93% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| sal | -37% | -8% | -9% | 26% | 35% | -93% | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DO | 53% | -9% | -10% | 25% | 35% | 95% | -86% | -86% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | 9% | 18% | 19% | 11% | 14% | 95% | -86% | -80% | 88% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORP | 13% | 13% | 16% | 18% | 13% | 77% | -79% | -80% | 88% | 59% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turb | 37% | -5% | -5% | -42% | -54% | 74% | -91% | -91% | 66% | -75% | -96% | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zeu | -27% | 6% | 5% | 40% | 48% | -83% | 97% | 97% | -75% | -73% | -96% | -96% | | | | | | | | | | | | | | | | | | | | | | | | |
| SD | 22% | 18% | 20% | -14% | -32% | 86% | -97% | -98% | 83% | 85% | 89% | -96% | 49% | | | | | | | | | | | | | | | | | | | | | | | |
| Zmax | 65% | -44% | -47% | -49% | -37% | 63% | -65% | -64% | 56% | 36% | 69% | -67% | 1% | -35% | | | | | | | | | | | | | | | | | | | | | | |
| AT | 40% | 84% | 83% | 69% | 39% | 14% | 4% | 4% | 20% | -1% | -9% | 18% | -88% | -54% | -3% | | | | | | | | | | | | | | | | | | | | | |
| Chla | -31% | -3% | -3% | 35% | 45% | -71% | 87% | 87% | -65% | -58% | -98% | 92% | -88% | -54% | -3% | | | | | | | | | | | | | | | | | | | | | |
| NOx | -10% | 56% | 56% | 2% | 66% | -38% | 57% | 56% | -10% | -14% | -70% | 70% | -48% | -61% | 59% | -30% | 89% | 35% | | | | | | | | | | | | | | | | | | |
| NH4+ | -58% | -29% | -29% | 93% | 14% | -94% | 93% | 93% | -92% | -75% | -85% | 86% | -91% | -57% | -30% | 89% | 26% | 70% | -2% | | | | | | | | | | | | | | | | | |
| TN | 12% | 94% | 93% | 72% | 20% | -7% | 22% | 22% | -8% | -17% | -33% | 36% | -15% | -55% | 85% | 26% | 70% | -2% | 84% | | | | | | | | | | | | | | | | | |
| TP | -14% | 78% | 78% | 89% | 62% | -25% | 41% | 39% | -10% | -6% | -53% | 53% | -27% | -76% | 80% | 40% | 88% | 14% | 15% | 28% | | | | | | | | | | | | | | | | |
| SRP | -16% | -18% | -20% | 21% | 37% | -82% | 95% | 96% | -76% | -78% | -89% | 95% | -99% | -42% | -1% | 91% | 54% | 88% | 15% | 28% | 99% | | | | | | | | | | | | | | | |
| TN:TP | -21% | -17% | -19% | 18% | 34% | -85% | 97% | 98% | -81% | -83% | -90% | 96% | -100% | -48% | 0% | 90% | 52% | 90% | 16% | 29% | 99% | | | | | | | | | | | | | | | |
| TSI | -64% | 1% | 4% | -4% | -22% | -17% | -13% | -15% | -9% | 23% | 32% | -28% | 32% | -31% | -10% | -43% | -20% | -5% | -18% | 3% | -39% | -34% | | | | | | | | | | | | | | |
| Core_Z | -18% | 53% | 53% | 76% | 70% | -42% | 66% | 65% | -31% | -25% | -84% | 79% | -59% | -78% | 56% | 75% | 89% | 46% | 71% | 89% | 60% | 60% | -27% | | | | | | | | | | | | | |
| Floc_l | 71% | 54% | 52% | 32% | 10% | 68% | -59% | -59% | 72% | 45% | 57% | -48% | 58% | 32% | -42% | 52% | -63% | 5% | -84% | 37% | 24% | -55% | -57% | -4% | -62% | | | | | | | | | | | |
| Sed_l | 3% | -34% | -34% | -47% | -34% | 17% | -41% | -41% | 18% | 19% | 70% | -56% | 44% | 33% | -15% | -77% | -63% | 12% | -38% | -51% | -44% | -50% | -47% | 66% | -72% | 29% | | | | | | | | | | |
| Floc_sed_l | -13% | -55% | -56% | -48% | -37% | -26% | 0% | -24% | -24% | -17% | 39% | -21% | 3% | 25% | -34% | -41% | -49% | 6% | -59% | -49% | -7% | -4% | 58% | -63% | -6% | 49% | -1% | | | | | | | | | |
| Sed_TP | 40% | 58% | 54% | 56% | 2% | -4% | 21% | 22% | -7% | -22% | -30% | 34% | -25% | -3% | 50% | 38% | 61% | 5% | 71% | 43% | 33% | 29% | -58% | 44% | 25% | 11% | 87% | | | | | | | | | |
| Sed_N | 26% | 30% | 27% | -8% | 12% | -13% | 14% | 15% | -9% | -19% | -10% | 6% | 28% | 0% | 2% | -5% | -5% | -6% | 34% | -17% | -3% | -5% | -40% | -15% | 3% | 10% | -37% | -65% | | | | | | | | |
| Sed_C | 5% | 16% | 14% | -20% | -61% | -15% | 14% | 15% | -39% | -45% | -16% | 15% | -22% | 6% | -15% | 29% | -5% | 26% | 29% | -18% | 21% | 22% | -43% | 7% | -30% | 25% | -50% | -37% | -27% | | | | | | | |
| Floc_TP | 26% | -19% | -22% | 29% | 12% | -18% | 27% | 27% | -8% | -11% | -26% | 29% | -34% | 34% | -12% | 41% | 39% | 24% | -5% | -6% | 47% | 39% | -48% | 7% | -9% | 57% | -36% | -3% | 49% | 71% | | | | | | |
| Floc_N | -5% | -18% | -21% | 1% | -47% | -19% | -1% | -14% | -1% | 22% | -3% | 13% | -24% | 23% | -32% | 15% | 6% | 34% | -16% | -27% | 30% | 27% | 19% | 6% | -42% | 60% | 21% | 49% | 29% | 92% | | | | | | |
| Floc_C | -11% | -25% | -28% | -2% | -44% | -42% | 25% | 25% | -40% | -28% | -3% | 22% | 4% | 36% | -28% | -11% | -2% | 7% | -19% | -30% | 3% | -1% | 6% | -47% | -6% | 79% | 6% | 45% | 36% | 43% | 35% | | | | | |
| Sed_org | 10% | 10% | 6% | -8% | -48% | -38% | 39% | 40% | -55% | -63% | -32% | 39% | -47% | 2% | -7% | 45% | 13% | 44% | 31% | -9% | 48% | 48% | -47% | 10% | -31% | 51% | -48% | -17% | 69% | 85% | 93% | 63% | | | | |
| Floc_org | -26% | 3% | 1% | -2% | -64% | -40% | 19% | 19% | -46% | -30% | -1% | 9% | -15% | 4% | -24% | 11% | 4% | 32% | 8% | -16% | 17% | 16% | 16% | -21% | -29% | 62% | -5% | 27% | 43% | 68% | 63% | 47% | 85% | 90% | 71% | |

**Appendix 5. Parameters fed to the PCA.**

| | BV | BT | CM | GC | WW | SS | DD |
|---|---|---|---|---|---|---|---|
| NAVD'88 (m) | 0.25 | -0.50 | -0.27 | 0.25 | -0.17 | 0.17 | 0.10 |
| Volume (m3) | 414 | 27055 | 9791 | 12679 | 8595 | 9007 | 207700 |
| Planar Surface area (m2) | 522 | 15007 | 8219 | 8218 | 4774 | 4540 | 81404 |
| Mean Depth (m) | 0.80 | 1.80 | 1.20 | 1.60 | 1.90 | 2.10 | 2.60 |
| Bottom hardness (a.u.) | 0.30 | 0.39 | 0.37 | 0.47 | 0.44 | 0.42 | 0.41 |
| Temperature (ºC) | 30.70 | 28.89 | 30.92 | 31.81 | 26.69 | 31.25 | 31.01 |
| Specific conductance (µs/cm) | 838.46 | 8814.56 | 2714.40 | 1974.74 | 32705.18 | 2466.82 | 5690.12 |
| Salinity (PSU) | 0.42 | 4.99 | 1.42 | 1.02 | 20.77 | 1.29 | 3.13 |
| DO (mg/l) | 4.31 | 3.83 | 5.05 | 7.61 | 0.08 | 7.30 | 5.93 |
| pH (a.u.) | 7.62 | 8.19 | 8.19 | 8.26 | 7.04 | 8.48 | 8.09 |
| ORP (mV) | 394.14 | 218.86 | 137.06 | 224.85 | -222.29 | 206.59 | 136.66 |
| Turbidity (NTU) | 2.31 | 24.00 | 18.60 | 20.30 | 111.00 | 20.20 | 38.20 |
| Euphotic zone depth (m) | 2.77 | 2.30 | 1.92 | 2.11 | N.D. | 1.59 | 1.37 |
| Secchi disk depth (cm) | 121 | 45 | 75 | 87 | 35 | 121 | 44 |
| Water depth at station (cm) | 233 | 235 | 152 | 316 | 265 | 233 | 441 |
| Total Alkalinity (mg CaCO3eq/l) | 129.50 | 194.00 | 297.00 | 192.00 | 507.00 | 269.00 | 258.00 |
| Chl*a* (µg/l) | 6.04 | 36.91 | 22.28 | 31.57 | 63.18 | 49.56 | 66.10 |
| NOx (mg/l) | 0.02 | 0.04 | 0.04 | 0.02 | 0.08 | 0.03 | 0.02 |
| NH4+ (mg/l) | 0.03 | 0.06 | 0.04 | 0.06 | 0.53 | 0.05 | 1.58 |
| TN (mg/l) | 0.80 | 2.57 | 1.58 | 2.42 | 3.03 | 1.96 | 4.16 |
| TP (mg/l) | 0.03 | 0.02 | 0.08 | 0.12 | 3.82 | 0.65 | 0.17 |
| SRP (mg/l) | 0.02 | 0.07 | 0.04 | 0.05 | 4.12 | 0.28 | 0.13 |
| TN/TP | 29.57 | 125.39 | 20.33 | 20.71 | 0.79 | 3.02 | 24.34 |
| TSI (a.u.) | 48.67 | 63.63 | 65.42 | 68.43 | 84.00 | 63.64 | 81.91 |
| Depth at coring station (cm) | 194.80 | 160.67 | 123.67 | 219.00 | 118.67 | 193.33 | 233.29 |
| Floc thickness (cm) | 3.90 | 3.83 | 2.67 | 2.00 | 5.33 | 3.83 | 2.00 |
| Sed thickness (cm) | 8.70 | 9.00 | 4.50 | 7.67 | 4.17 | 5.50 | 4.50 |
| Floc+ sediment thickness (cm) | 12.60 | 12.83 | 7.17 | 9.67 | 9.50 | 9.33 | 6.50 |
| Sediment TP (%) | 0.41 | 0.06 | 0.25 | 0.11 | 0.56 | 0.62 | 0.81 |
| Sediment TN (%) | 1.20 | 0.45 | 0.97 | 0.26 | 0.77 | 0.95 | 1.11 |
| Sediment TC (%) | 18.91 | 8.89 | 18.50 | 6.27 | 16.68 | 13.44 | 16.84 |
| Floc TP (%) | 0.39 | 0.16 | 0.17 | 0.10 | 0.69 | 1.10 | 0.29 |
| FlocTN (%) | 1.94 | 1.81 | 0.89 | 0.35 | 1.33 | 2.30 | 1.12 |
| Floc TC (%) | 26.69 | 23.49 | 15.07 | 7.01 | 24.68 | 29.21 | 16.26 |
| Sediment organic content (%) | 19.34 | 9.35 | 15.50 | 6.33 | 19.92 | 14.89 | 16.52 |
| Floc organic content (%) | 21.28 | 19.33 | 16.36 | 6.95 | 18.75 | 19.71 | 17.65 |

*Table 4. Summary table of all the parameter studied and ran into the PCA. Some are averages. N.D. denotes as non-determined. BV= Beach Villa, BT= Bike Trail, CM=Chateau-Sur-Mer, GC= Golf Course, WW=Heron Landing, SS=Sanctuary, DD=The Dunes.*

For canal reporting on Sanibel Island, please visit **Sanibel Clean Canals**




2023 Ranking of Concern

# 2

out of 23

Water Quality Grade 2023

F

View All Rankings



## Heron's Landing

26.47001, -82.15974



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Report Algae Blooms/Fish Kills

Have you implemented some best management practices here?

Let us know!

Data Summary

| Nutrients | 2018 | 2020 | 2022 | 2023 |
|---|---|---|---|---|
| IN | 0.028 | 0.409 | 0.112 | 0.86 |
| TN | 3.42 | 2.51 | 11.1 | 2.88 |
| OP | 2.97 | 1.845 | 0.622 | 0.49 |
| TP | 3.02 | 1.89 | 0.75 | 0.48 |
| Chl-*a* | 14.5 | 91 | 36.35 | 199.5 |
| TSI | 99.6 | 98.2 | 93.4 | 88 |
| Salinity | 14.5 | 18.5 | 9.55 | 26.1 |
| DO | 2.8 | 2.4 | 3.35 | 3.4 |

concerned) to 84 (least concerned) .

Recommendations

Alerts 0 new

Activity Tracker



## Aeration

Aeration prevents stratification, the separation of the water column into distinct layers, of dissolved oxygen. (continue reading)



## Floating Treatment Wetlands (FTWs)

A FTW is essentially a floating mat upon which plants grown hydroponically uptake excess nutrients via there root system. (continue reading)



## Lake-Friendly Landscaping/Gardening

Properly planned landscapes and gardens can greatly reduce impacts to water quality (continue reading)



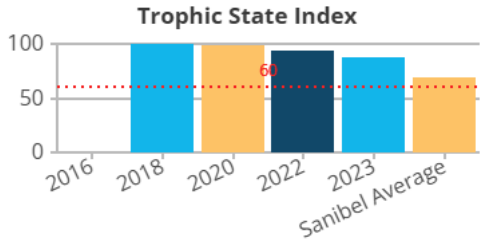
## Mechanical Removal of Algae and Aquatic Pest Plants

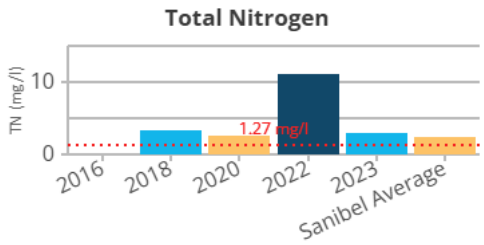


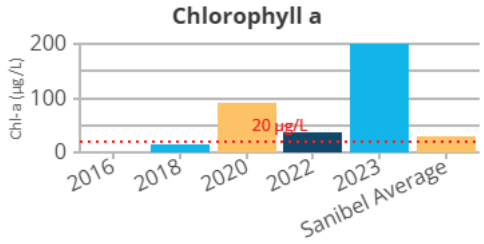

## Runoff Control

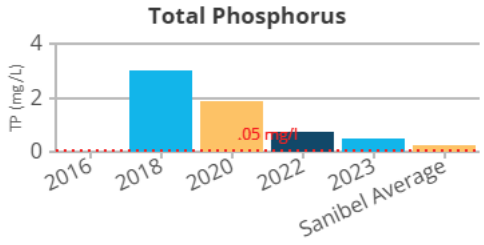
Homeowners should implement features that have the ability to deflect or slow roof and pavement runoff. (continue reading)

*• • • • • = State Criteria: measurements above this line suggest impairment to the waterbody.*




## Historical Data

Rankings

2023 Ranking: 2

2016 Ranking: NR

Water Quality Grade

2023 Grade: F

2022 Grade: F

2020 Grade: F

2018 Grade: F

2016 Grade: NR

## Most Impaired - Top 5

1. Sanibel Island Golf Course: Reclaimed Water Pond
2. Pond Apple Park: Shipley Trail
3. Sanibel Bayous: Buck Key Road
4. Pond Apple Park: Reuse Pond
5. Heron's Landing

## Least Impaired - Top 5

84. Sanibel Lake Estates
83. Beach Road Villas
82. Twin Ponds (or Ranchoe Way)
81. Periwinkle Place
80. Poinciana Circle

For canal reporting on Sanibel Island, please visit **Sanibel Clean Canals**

Receive news, tips and helpful information for your community!

Your Name

Your Email Address

Please select your community

Sign Up

Report Algae Blooms or Fish Kills


INTRO
ABOUT
SOLUTIONS
GET INVOLVED
NEWS
ACCESSIBILITY
CONTACT


JULY 1, 2020

## Sanibel Fertilizer Blackout Period July 1-September 30

JUNE 30, 2020

## Lawns are the No. 1 irrigated 'crop' in America.

Join us on social media for news and updates!

# C O A S T A L  C R E E K

5301 Sanibel Captiva Road, Sanibel, Lee County FL

- Former Sanibel Bayous WWTP decommissioned 2008
- Land Use change from industrial/commercial to residential triggering FDEP screening
- ONLY Tested for 8 RCRA metals and nitrate/nitrite
- KNOWN nutrient cache in Infiltration Basin Area (very high P), anoxic Heron's Landing lake --- formal study/monitoring (2016 to current)

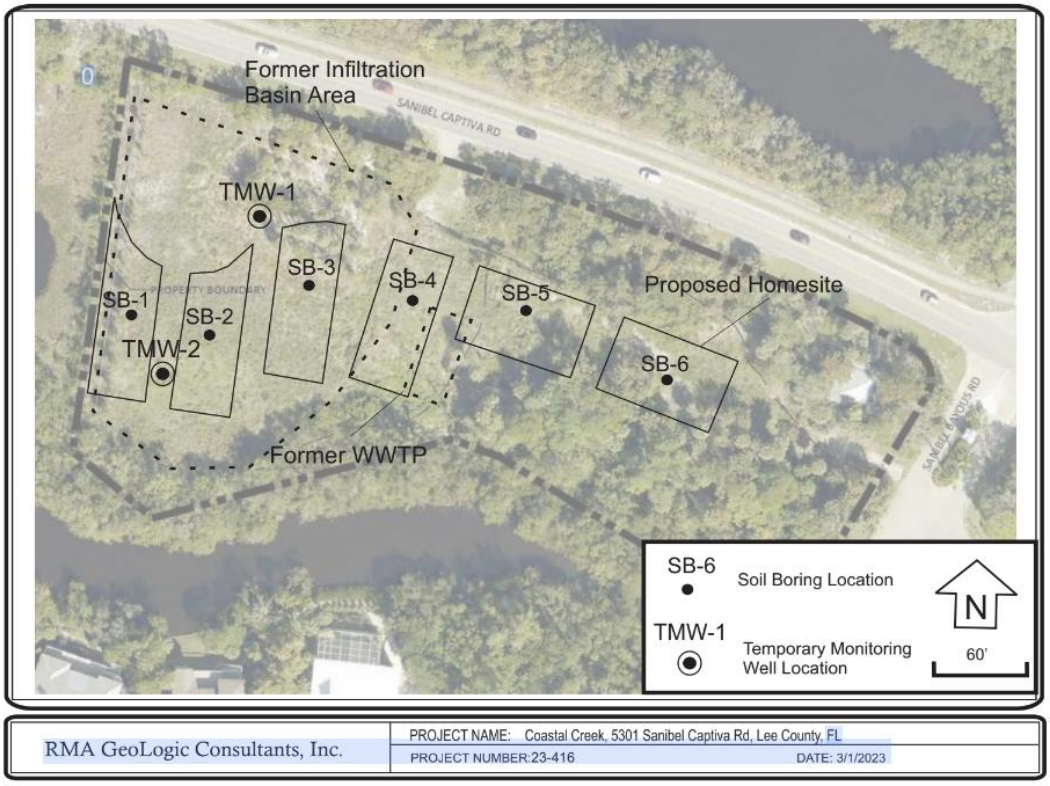
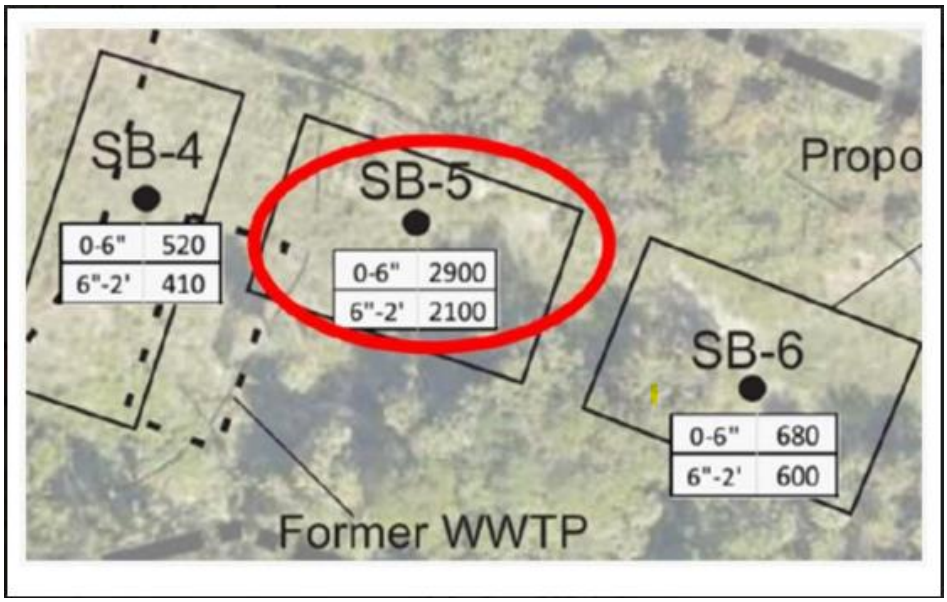



FIGURE 1 - Site Map Showing Former WWTP & Infiltration Basin, Future Homesites, and Soil and Groundwater Sample Locations



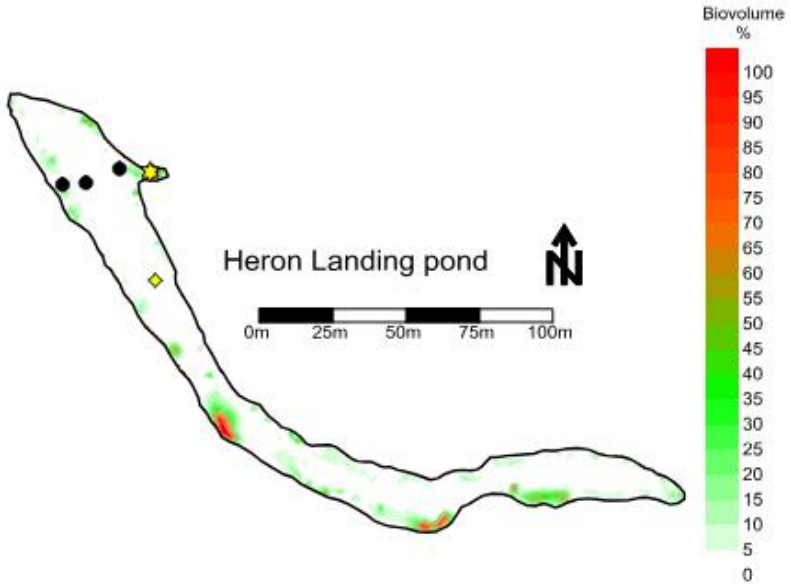



*Figure 14. SAV cover in Heron Landing pond*

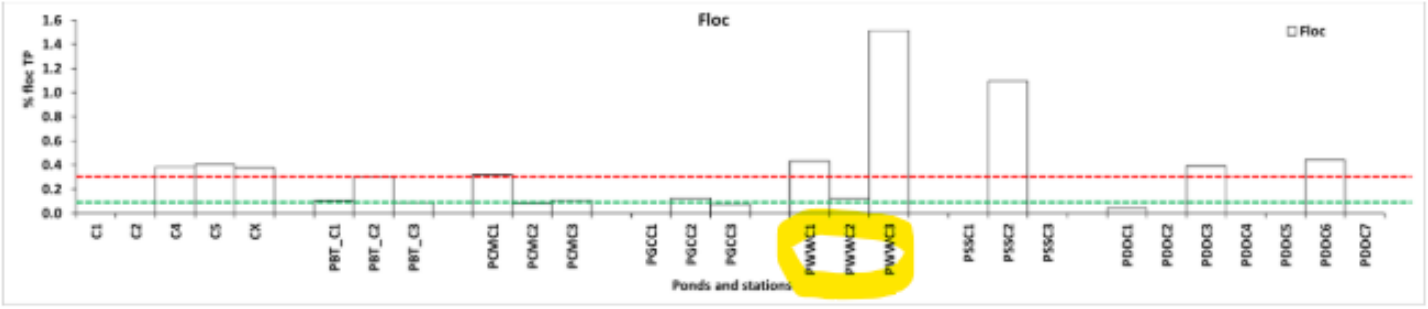



*Figure 28. TP content in the floc (2% TP equates to 20,000µg/g). The red dotted line refers to the average TP content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

### v. Heron landing pond

The water column is being destratified in Heron Landing pond since the temperature curve represents mixing occurring between the epi and hypolimnion. DO are alarming low and typical of anoxia. pH is typical of brackish and saline water which agrees with the specific conductance. Specific conductance is also lower on the surface than in deeper water and shows a weak halo/pycnocline which is being destroyed. ORP is very negative showing a very reducing environment in par with the anoxia observed. Water clarity is very poor as PAR profiles prove very challenging as light would attenuate too quickly. Particulates other than phytoplankton and likely heterotrophic bacteria and other particulates attenuate light in the water column.

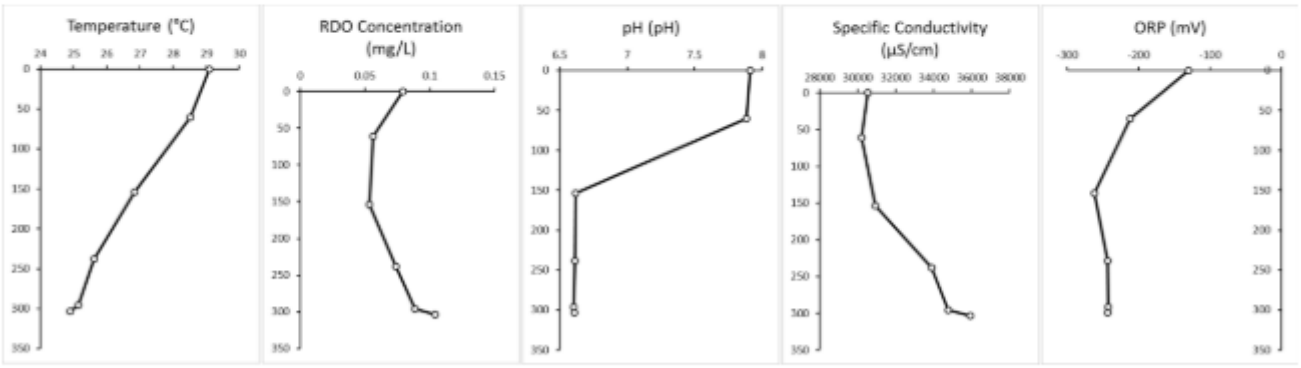



*Figure 23. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Heron Landing pond*

### v. Heron landing pond

When visited, Heron Landing pond surface water was -0.17m NAVD'88. The volume of the pond was then 8,595m$^3$ for a planar surface area of 4,774m$^2$ and a mean depth of 1.9m.

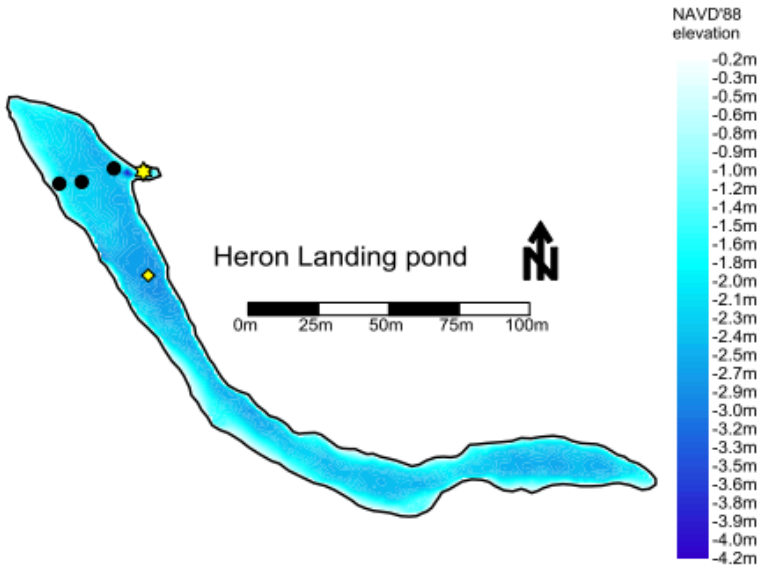



*Figure 12. Bathymetry of Heron Landing pond*

The average bottom hardness of Heron Landing pond was 0.44 as calculated with surfer and its bottom was harder than its shelf. SAV cover was found intermittently on the shelf but not in the deepest portions of the pond.

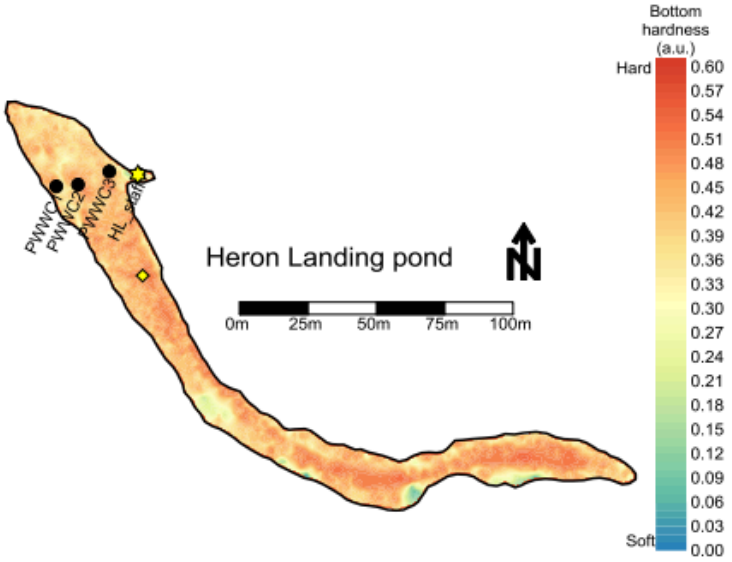



*Figure 13. Bottom hardness of Heron Landing pond*

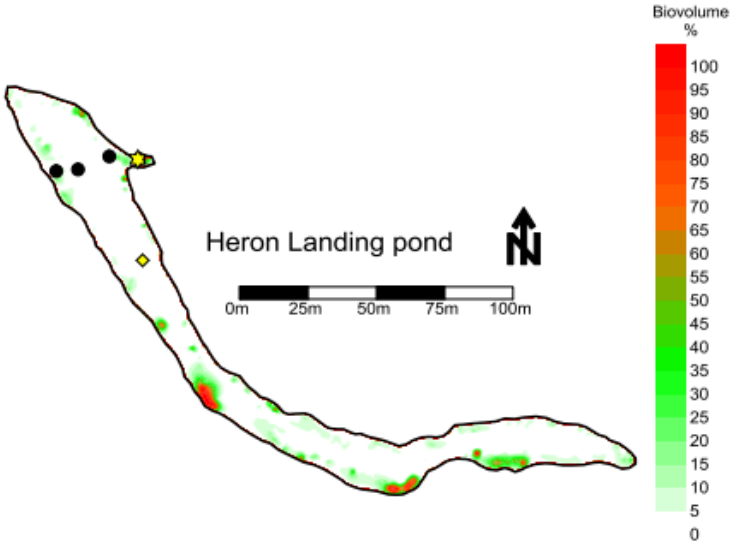



*Figure 14. SAV cover in Heron Landing pond*

### v. Heron landing pond

The water column is being destratified in Heron Landing pond since the temperature curve represents mixing occurring between the epi and hypolimnion. DO are alarming low and typical of anoxia. pH is typical of brackish and saline water which agrees with the specific conductance. Specific conductance is also lower on the surface than in deeper water and shows a weak halo/pycnocline which is being destroyed. ORP is very negative showing a very reducing environment in par with the anoxia observed. Water clarity is very poor as PAR profiles prove very challenging as light would attenuate too quickly. Particulates other than phytoplankton and likely heterotrophic bacteria and other particulates attenuate light in the water column.

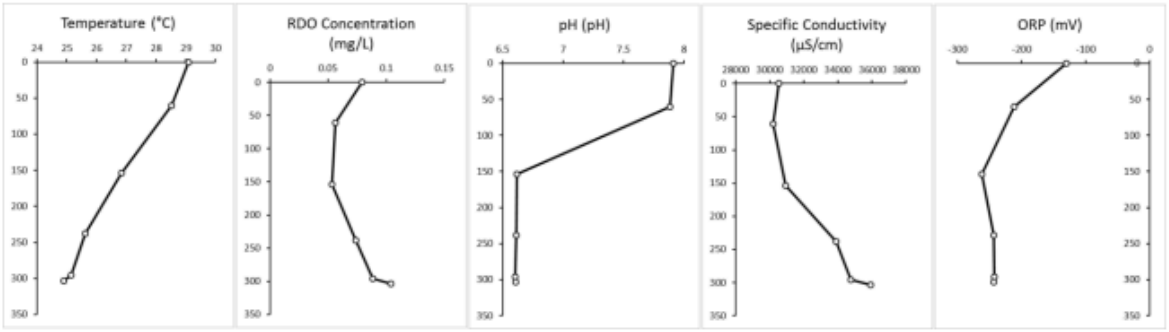



*Figure 23. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Heron Landing pond*

### v. Heron landing pond

Heron Landing has high total alkalinity showing an eventual good connection between the pond water and the surrounding lime rich environment. Such alkalinity could limit algal and SAV growth as carbonates dominate. Cyanobacteria however can thrive in such environments and it seems to be the case as chl *a* concentration is quite high but not enough to compensate the high biological oxygen demand of the water and likely of the sediment. Nitrogen, but especially, phosphorus (*a fortiori* as labile phosphorus) levels are especially high in this pond and drive the TSI to hypereutrophy+. The pond is limited in nitrogen which can select nitrogen fixing cyanobacteria but with such high levels of nutrients, it is doubtful that any limitation exists. Ammonia levels are high linked especially to the reducing properties of the water (i.e. low ORP).

## 3. Conclusions

A correlation matrix was run between all the parameters measured for this study (Appendix 4). As for most water bodies, salinity is a main driver of these hydrosystems since it was positively correlated with the turbidity and therefore was negatively correlated with the Secchi disk and euphotic zone depths. More saline ponds had lower temperature, lower DO, pH, ORP but higher TP, SRP, total alkalinity and NOx. Large ponds with large volume, surface area and mean depth also had larger water concentration in ammonia and TN. Water TN and Chlorophyll *a* mainly drove the TSI of all the ponds. Hypereutrophic ponds had reducing water column properties which drove ammonia to alarming levels which as bioavailable nutrients fed algae growth which reduced water clarity.

However, Sanctuary pond slightly deviates from his expected hypereutrophy because its water is likely highly managed in such a way that its water column remains relatively clear and with less phytoplankton



than one would expect. Because of its large size and despite some managements, The Dunes pond water quality is not improved, even artificially as it is the case for the much smaller Sanctuary pond.

Heron Landing also is different than the other ponds because of the extreme conditions this pond is encountering as its high biological oxygen demand masks the photosynthesis DO production.

## 2. Results and discussion

Using the correlation matrix (Appendix 4), sediment and floc characteristics had poor relationships with the water quality. This normally is the case in other ponds in the region and this could be linked to the fact that



there was only one water quality assessment over the course of a hydrologic cycle whereas water sampling once a month was conducted for the other studies that our group conducted. However, when the sediment and floc data are compared to one another, it was found that for the same core, a thick layer of floc would equate to a thick layer of sediment. The nutrient contents of these two layers did not show much correlation though. Nevertheless, for both the floc and the sediment of the same core, high nitrogen content equated to high carbon and organic content. This shows that the sediment and floc were organic and thus would leach nutrients to the water column as they are degraded. The phosphorus content did not exhibit this pattern but this could be linked to the fact that the analysis of TP was not made through a TP fractionation process which is long, costly and laborious but which would have allowed to separate the various forms of P found in the core and especially tease apart the labile and refractory forms of P.

Overall, the combined sediment and floc accumulation in all the ponds was less than 30cm which is the arbitrary threshold that has been arbitrarily used to determine whether dredging ought to be necessary. Thus, based upon this figure, it appears that all the ponds have not reached that threshold yet. Beside Chateau-Sur-Mer with an overall low sediment and floc accumulation (7.2cm in average), all ponds have accumulated about the same amount of sediment regardless of their current TSI (9.3 to 12.8 cm in average). The Dunes pond had very long sediment accumulation on its shelf but this was compensated for by a much higher sediment accumulation pass the littoral zone.

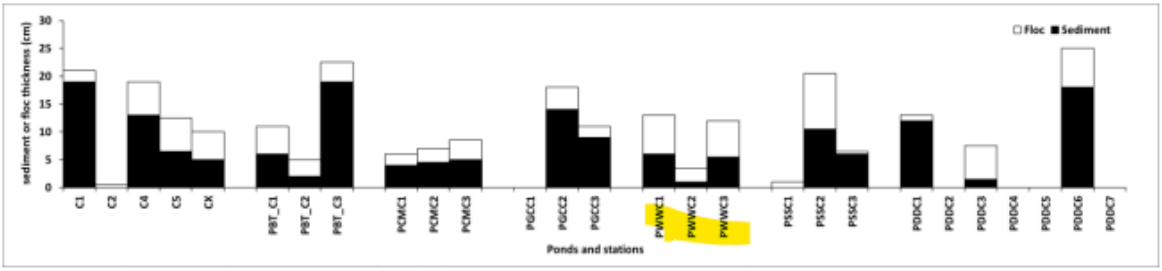



*Figure 26. Sediment and floc accumulation for all the ponds at their stations selected for coring.*

Nutrient content in the sediment is also a factor to consider for dredging and overall management decisions. Beside the relatively low sediment and floc accumulation, the amount of nutrients appears to be high when compared to other ponds in Lee and Collier counties and mainly located within Bayside Bay Creek Community Development Districts (CDDs referred as Pelican Landing in Estero and Bonita Springs, Thomas, 2015).

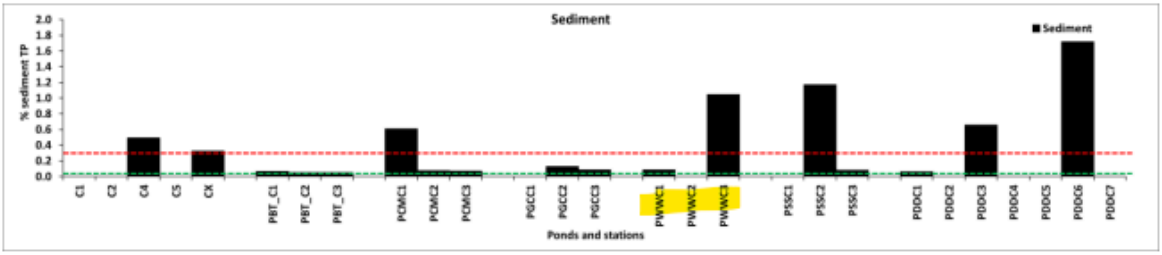



*Figure 27. TP content in the sediment (2% TP equates to 20,000µg/g). The red dotted line refers to the average TP content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

It is noteworthy to point out that sediment nutrient has often more P than for the floc. This is unusual but might be linked that most P is refractory in the sediment and less refractory in the floc. Thus, the P content of the muck of the ponds studied is high, especially for the floc TP content alone.

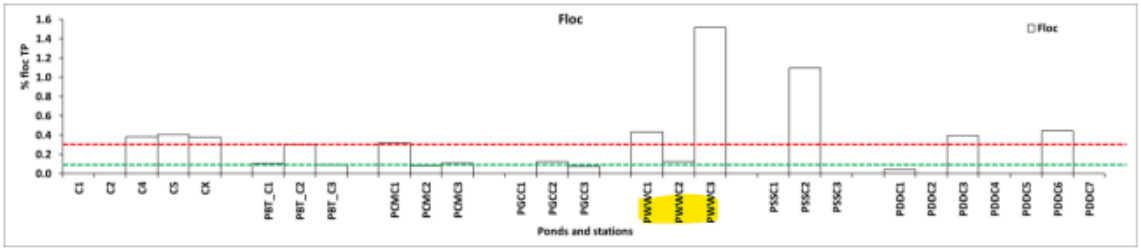



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Sediment and floc TN (as well as TC and organic content since these are all highly correlated, so they are implicitly discussed below) were also higher than other ponds in Lee and Collier Counties. TN was more in the floc than in the sediment and has high potential for leaching back into the water column and create algae blooms (especially since the TSI is driven mainly by TN and Chlorophyll *a*). Besides for Golf Course pond, the sediment in the golf course ponds (The Dunes and Sanctuary) had high maxima.

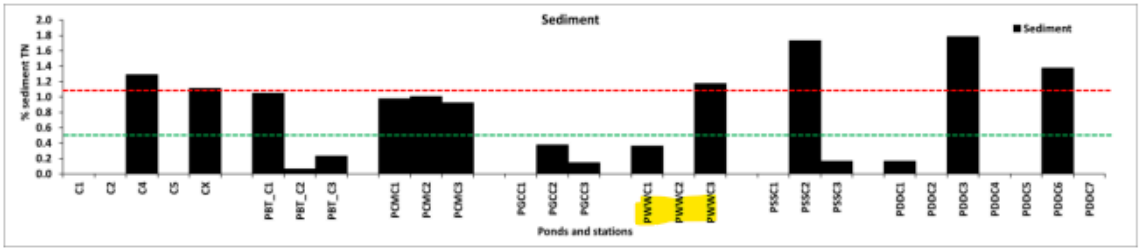



*Figure 29. TN content in the sediment. The red dotted line refers to the average TN content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

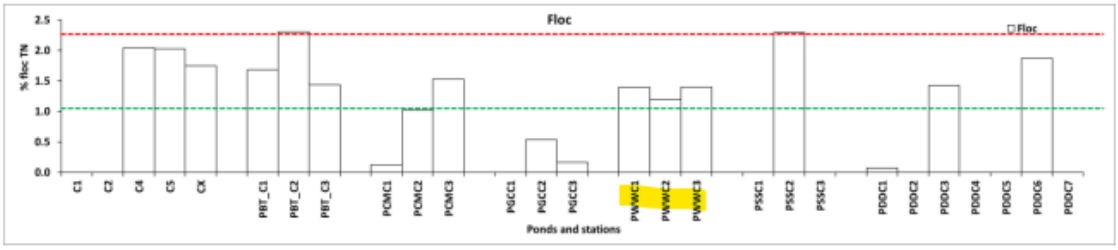



*Figure 30. TN content in the floc. The red dotted line refers to the average TN content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

This was also the case for Beach Villa pond which could be linked to the high leaf litter deposits which were found in great abundance in the cores. TN in the floc was especially high except for the Golf Course pond which overall and regardless of the nutrient considered had the "healthiest" muck.

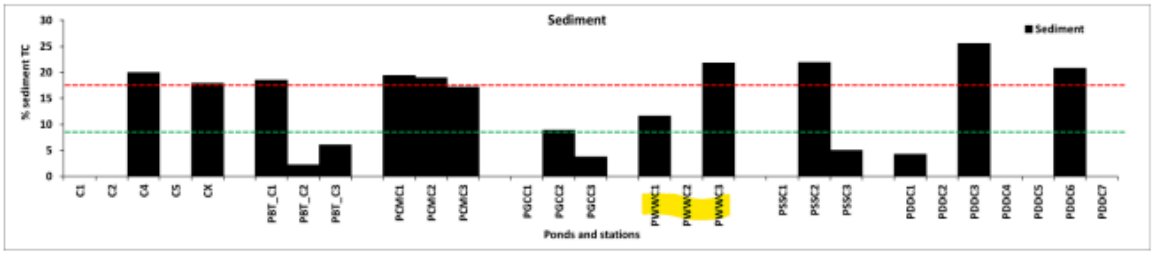



*Figure 31. TC content in the sediment. The red dotted line refers to the average TC content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

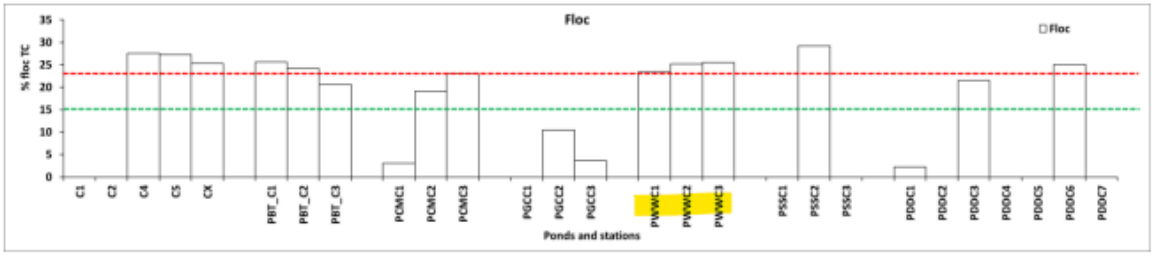



*Figure 32. TC content in the floc. The red dotted line refers to the average TC content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

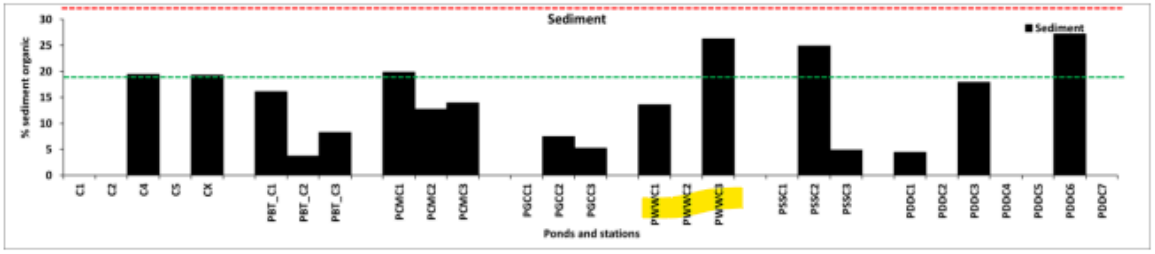



*Figure 33. Organic content in the sediment. The red dotted line refers to the average organic content in the sediment of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

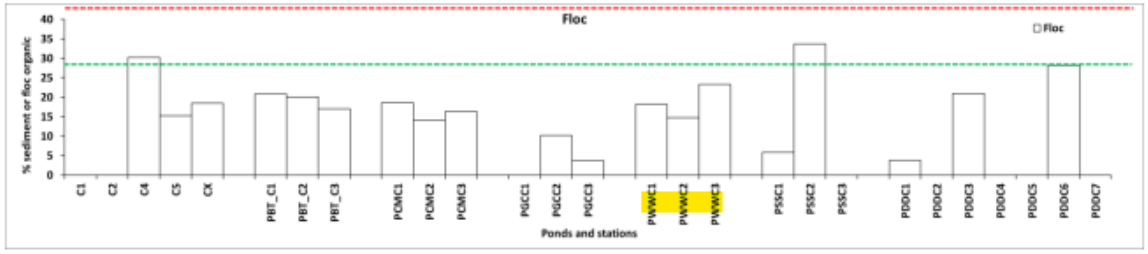



*Figure 34. Organic content in the floc. The red dotted line refers to the average organic content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

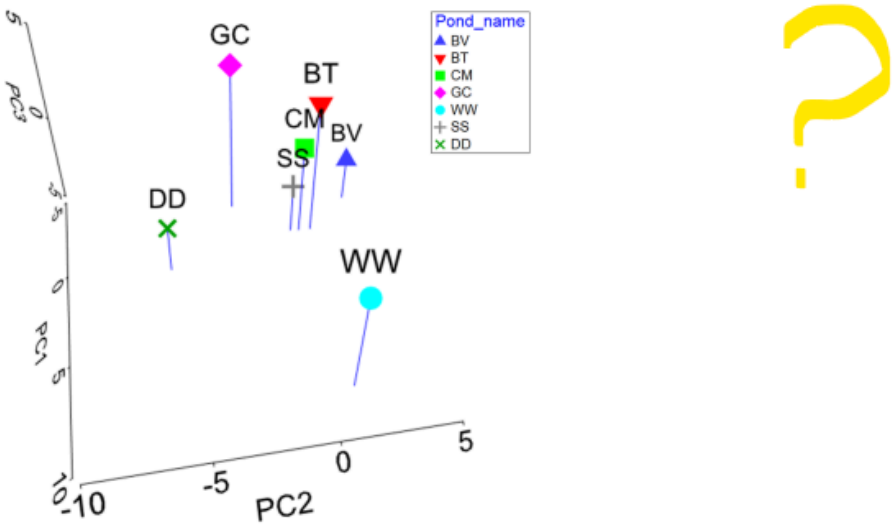



*Figure 35. Pond grouping subsequent to running a PCA on all the parameters from this study (see Appendix 5 for these parameters). BV= Beach Villa, BT= Bike Trail, CM=Chateau-Sur-Mer, GC= Golf Course, WW=Heron Landing, SS= Sanctuary and DD= The Dunes.*

## F. Closing thoughts

A principal component analysis (PCA) was run in Primer-e 7 (www.primer-e.com) to assess how similar the ponds were from one another while considering all the parameters discussed in this study (cf. Appendix 4 for correlation matrix and Appendix 5 for the values of these parameters). All parameters were kept (even the redundant ones) so that the observed grouping in the hyperspace but reduced to a 3-axis volume encompassing for 79.3% of the variation are accurate. Another PCA was run when the redundant variables (those with a positive or negative correlation over 80%) were removed but ponds did not group (PCA not shown).

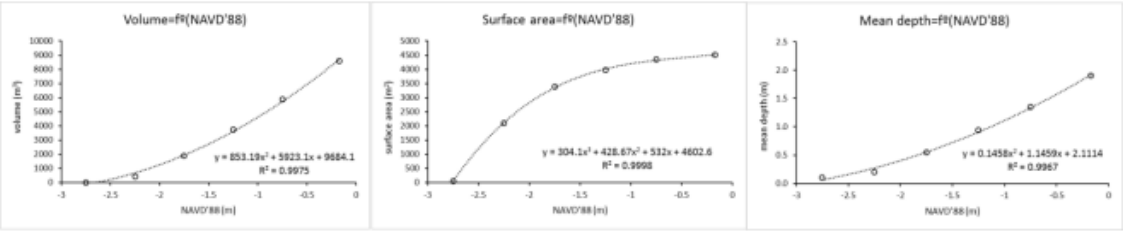
The two first axes of the PCA (ran on a normalized matrix after transformations were made to approach data normality) represented 63.5% of the hyperspace variability and with three axes, 79.3% of the variability was represented. The PCA shows that Bike Trail, Chateau-Sur-Mer and Sanctuary were most similar especially when the two first axes (1 and 2) were considered. Salinity is mainly representing axis 1 positively while temperature represents it negatively. Axis 2 represents positively the sediment and floc thickness and negatively the volume of the pond. Finally, axis 3 is mostly driven positively by the bottom hardness and negatively by the sediment and floc nutrients.

In this tri-dimensional scale, Heron Landing stands apart because of its high salinity while the Dunes is especially different because of its large size. Bike Trail, Chateau-Sur-Mer and Sanctuary are most similar while Beach Villa and especially Golf Course are distant from this group.

Overall, most of the ponds studied had nutrients issues whether these nutrients were found in the water column (all ponds but Beach Villa) or in the sediment or floc (all ponds besides Chateau-Sur-Mer). Beach Villa likely receives most of its nutrients via leaf litter because the pond is small and surrounded by trees, and has in consequence higher coarse organic particulates inputs (in the sense of the River Continuum concept, Vannote et al. 1980). Such inputs should be limited over time as these would eventually turn the system eutrophic. Most ponds had high levels of nutrients in the sediment and floc and since these two parameters reflect a much longer term than the water column analyses, there is evidence of cultural eutrophication especially from P as well as N. Efforts should be made to limit such nutrients loading. Some small ponds especially could benefit from local dredging done using the bottom hardness maps provided. For the larger ponds like The Dunes, intense aeration which would benefit aerobic digestion should be envisaged. The nutrients released from aeration should be captured by littoral planting which would benefit from clearer water. Flocculation of the particulates in the water would immediately improve water clarity and could be done in conjunction of aeration and planting.



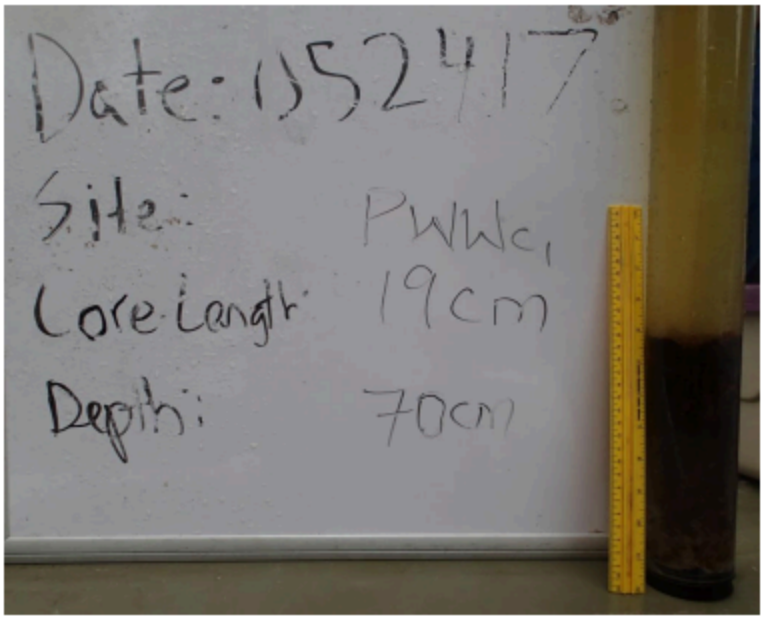
5. Heron Landing pond (3/22/17)



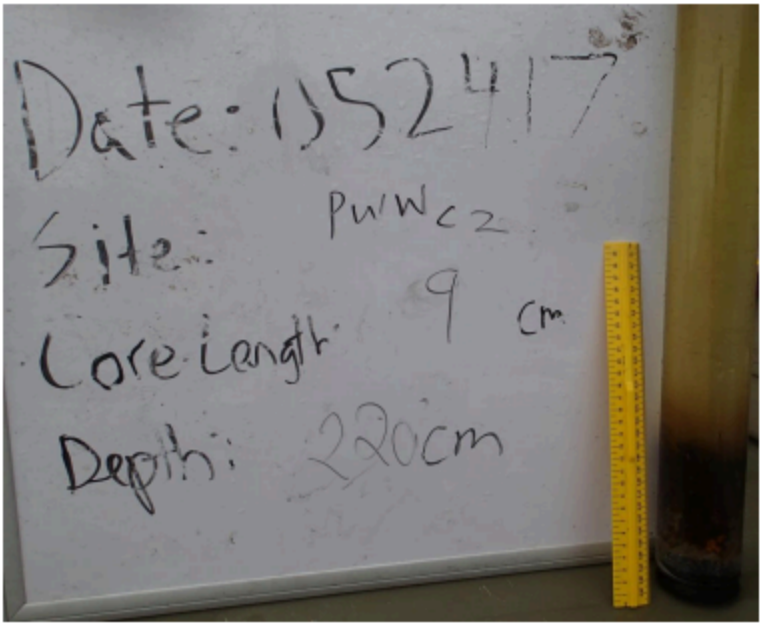

*Appendix1_ 5. Morphometric relations for Heron Landing pond*

Water level: -0.166m, top of post 0.234m

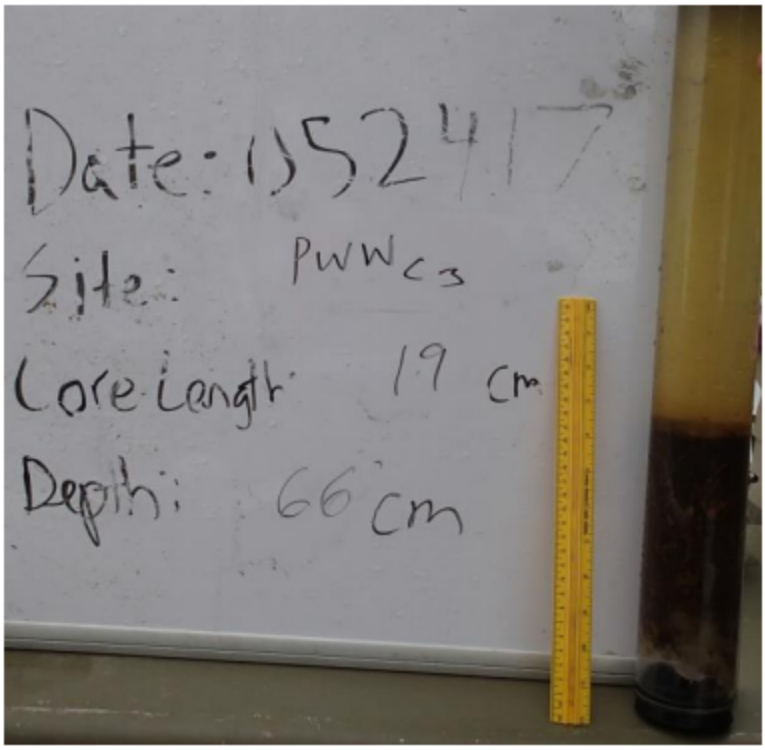
5. Heron Landing pond (3/22/17)




*Appendix2_ 17. Core 1, Heron Landing Pond*




*Appendix2_ 18. Core 2, Heron Landing Pond*

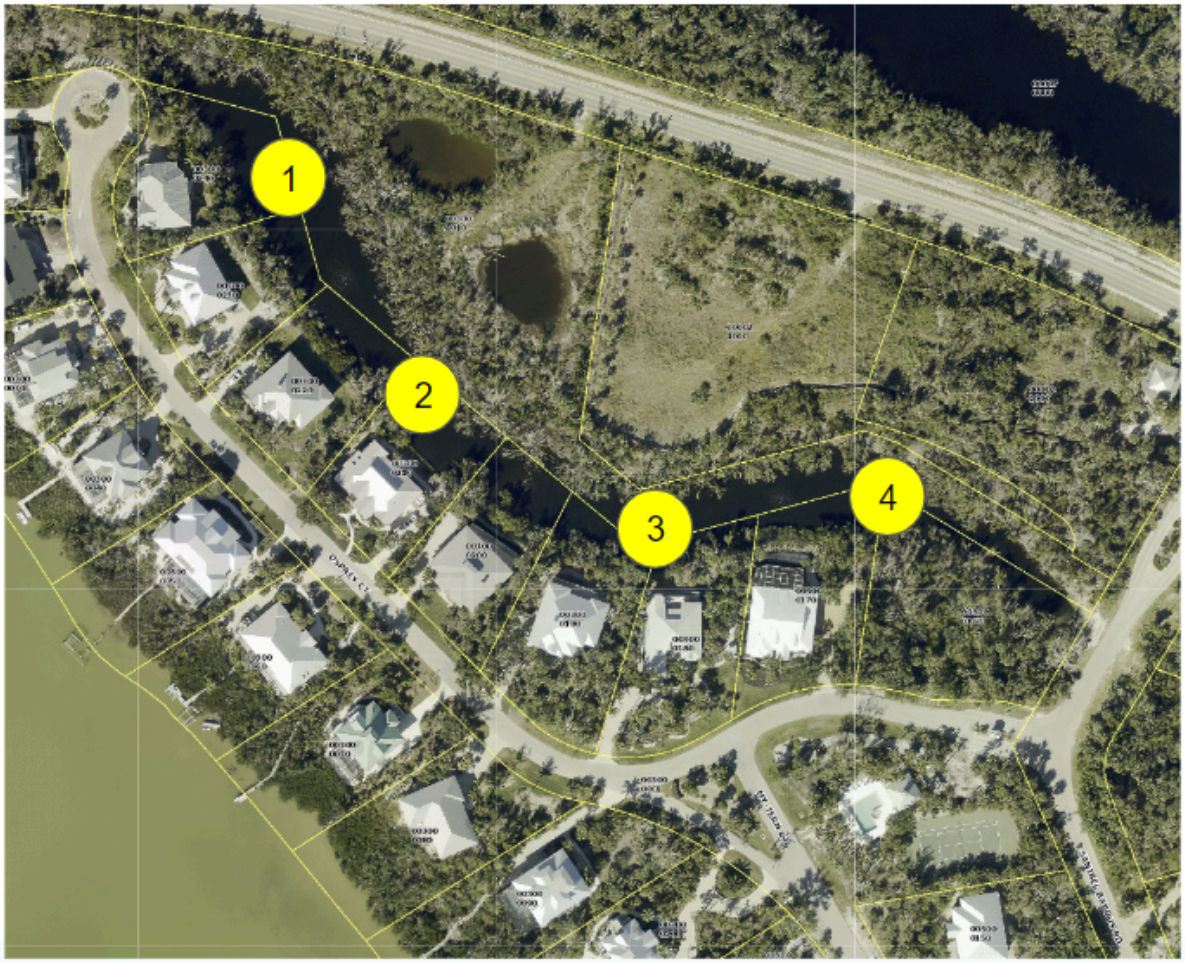



*Appendix2_ 19. Core 3, Heron Landing Pond*

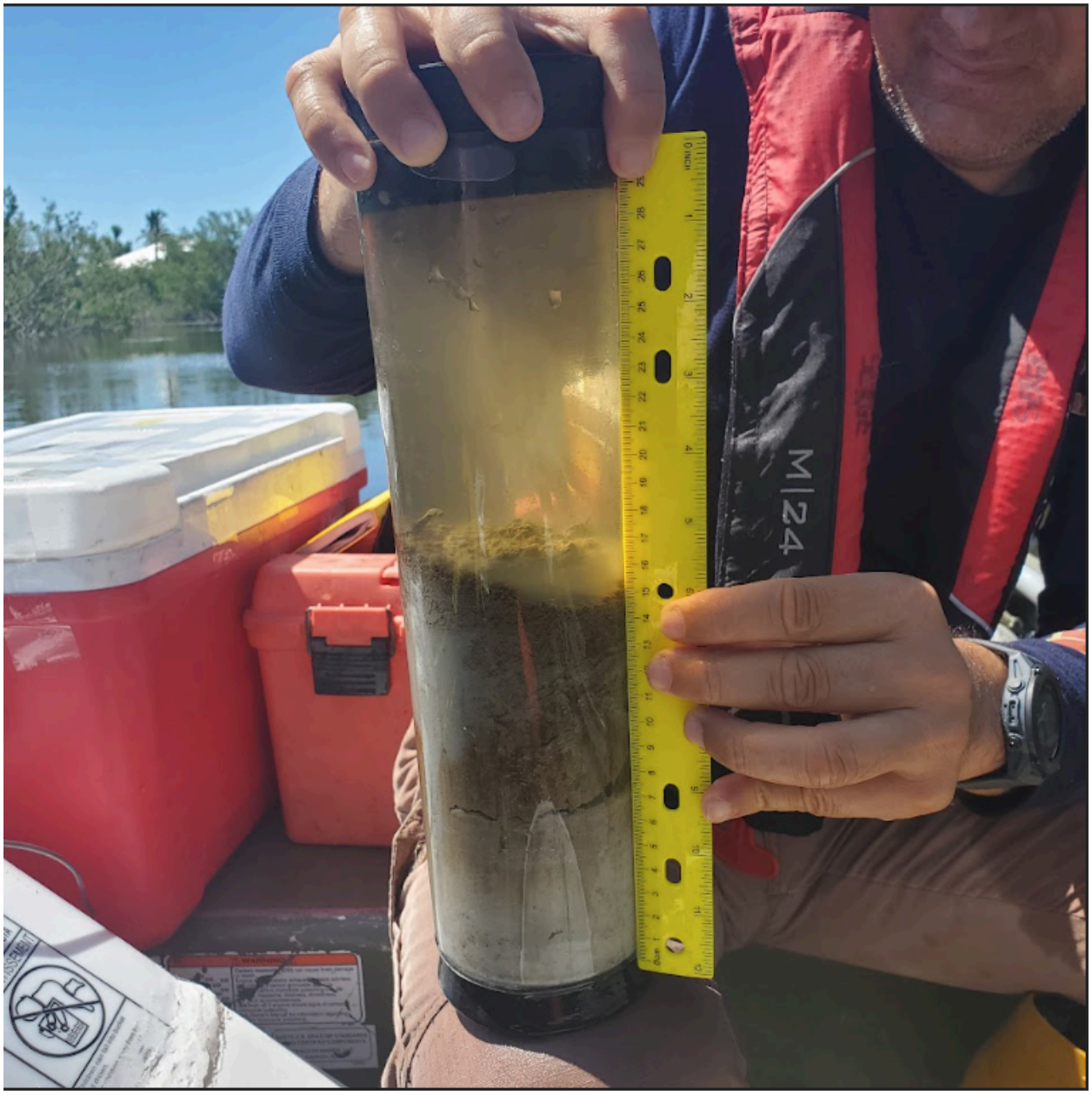
**Appendix 5. Parameters fed to the PCA.**

| | BV | BT | CM | GC | WW | SS | DD |
|---|---|---|---|---|---|---|---|
| NAVD'88 (m) | 0.25 | -0.50 | -0.27 | 0.25 | -0.17 | 0.17 | 0.10 |
| Volume (m3) | 414 | 27055 | 9791 | 12679 | 8595 | 9007 | 207700 |
| Planar Surface area (m2) | 522 | 15007 | 8219 | 8218 | 4774 | 4540 | 81404 |
| Mean Depth (m) | 0.80 | 1.80 | 1.20 | 1.60 | 1.90 | 2.10 | 2.60 |
| Bottom hardness (a.u.) | 0.30 | 0.39 | 0.37 | 0.47 | 0.44 | 0.42 | 0.41 |
| Temperature (ºC) | 30.70 | 28.89 | 30.92 | 31.81 | 26.69 | 31.25 | 31.01 |
| Specific conductance (µs/cm) | 838.46 | 8814.56 | 2714.40 | 1974.74 | 32705.18 | 2466.82 | 5690.12 |
| Salinity (PSU) | 0.42 | 4.99 | 1.42 | 1.02 | 20.77 | 1.29 | 3.13 |
| DO (mg/l) | 4.31 | 3.83 | 5.05 | 7.61 | 0.08 | 7.30 | 5.93 |
| pH (a.u.) | 7.62 | 8.19 | 8.19 | 8.26 | 7.04 | 8.48 | 8.09 |
| ORP (mV) | 394.14 | 218.86 | 137.06 | 224.85 | -222.29 | 206.59 | 136.66 |
| Turbidity (NTU) | 2.31 | 24.00 | 18.60 | 20.30 | 111.00 | 20.20 | 38.20 |
| Euphotic zone depth (m) | 2.77 | 2.30 | 1.92 | 2.11 | N.D. | 1.59 | 1.37 |
| Secchi disk depth (cm) | 121 | 45 | 75 | 87 | 35 | 121 | 44 |
| Water depth at station (cm) | 233 | 235 | 152 | 316 | 265 | 233 | 441 |
| Total Alkalinity (mg CaCO3eq/l) | 129.50 | 194.00 | 297.00 | 192.00 | 507.00 | 269.00 | 258.00 |
| Chl*a* (µg/l) | 6.04 | 36.91 | 22.28 | 31.57 | 63.18 | 49.56 | 66.10 |
| NOx (mg/l) | 0.02 | 0.04 | 0.04 | 0.02 | 0.08 | 0.03 | 0.02 |
| NH4+ (mg/l) | 0.03 | 0.06 | 0.04 | 0.06 | 0.53 | 0.05 | 1.58 |
| TN (mg/l) | 0.80 | 2.57 | 1.58 | 2.42 | 3.03 | 1.96 | 4.16 |
| TP (mg/l) | 0.03 | 0.02 | 0.08 | 0.12 | 3.82 | 0.65 | 0.17 |
| SRP (mg/l) | 0.02 | 0.07 | 0.04 | 0.05 | 4.12 | 0.28 | 0.13 |
| TN/TP | 29.57 | 125.39 | 20.33 | 20.71 | 0.79 | 3.02 | 24.34 |
| TSI (a.u.) | 48.67 | 63.63 | 65.42 | 68.43 | 84.00 | 63.64 | 81.91 |
| Depth at coring station (cm) | 194.80 | 160.67 | 123.67 | 219.00 | 118.67 | 193.33 | 233.29 |
| Floc thickness (cm) | 3.90 | 3.83 | 2.67 | 2.00 | 5.33 | 3.83 | 2.00 |
| Sed thickness (cm) | 8.70 | 9.00 | 4.50 | 7.67 | 4.17 | 5.50 | 4.50 |
| Floc+ sediment thickness (cm) | 12.60 | 12.83 | 7.17 | 9.67 | 9.50 | 9.33 | 6.50 |
| Sediment TP (%) | 0.41 | 0.06 | 0.25 | 0.11 | 0.56 | 0.62 | 0.81 |
| Sediment TN (%) | 1.20 | 0.45 | 0.97 | 0.26 | 0.77 | 0.95 | 1.11 |
| Sediment TC (%) | 18.91 | 8.89 | 18.50 | 6.27 | 16.68 | 13.44 | 16.84 |
| Floc TP (%) | 0.39 | 0.16 | 0.17 | 0.10 | 0.69 | 1.10 | 0.29 |
| FlocTN (%) | 1.94 | 1.81 | 0.89 | 0.35 | 1.33 | 2.30 | 1.12 |
| Floc TC (%) | 26.69 | 23.49 | 15.07 | 7.01 | 24.68 | 29.21 | 16.26 |
| Sediment organic content (%) | 19.34 | 9.35 | 15.50 | 6.33 | 19.92 | 14.89 | 16.52 |
| Floc organic content (%) | 21.28 | 19.33 | 16.36 | 6.95 | 18.75 | 19.71 | 17.65 |

*Table 4. Summary table of all the parameter studied and ran into the PCA. Some are averages. N.D. denotes as non-determined. BV= Beach Villa, BT= Bike Trail, CM=Chateau-Sur-Mer, GC= Golf Course, WW=Heron Landing, SS=Sanctuary, DD=The Dunes.*




[Heron's Landing Core photos 2024]



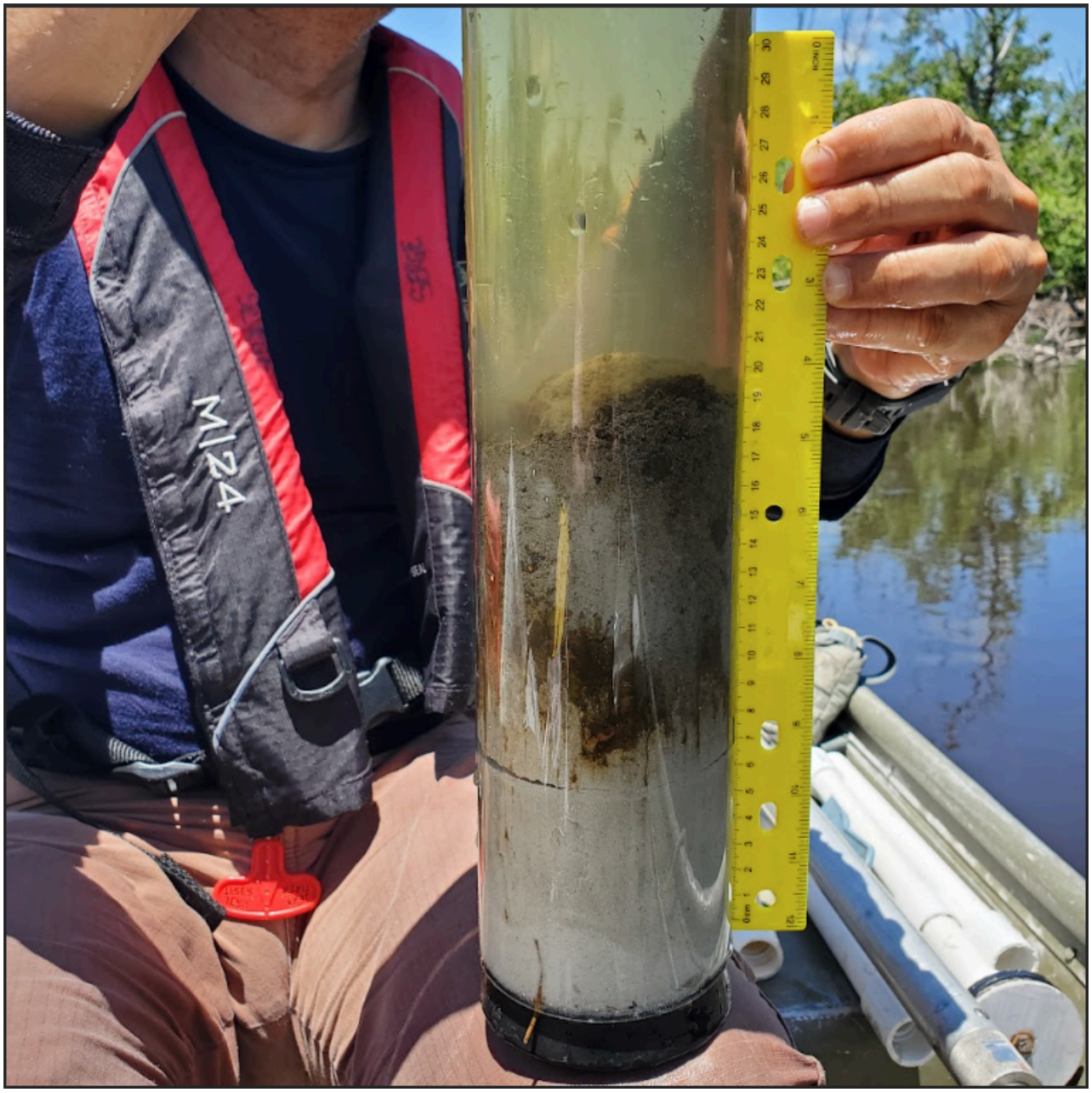

Core 1




Core 2




Core 3




Core 4

Serge's previous data from approximately Site 1.  He has sample locations marked precisely on GPS —– this is just a "rough" analysis.

1 ng/g = 1 pb  1 ng/g = 1 ug/g  1ng/g = 1000 ppt

N-ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA) is a perfluorinated chemical (PFC) that's used in many consumer products, such

as carpets, insecticides, and packaging paper. It's also a xenobiotic and environmental contaminant that can be found in sewer systems, biosolids, and soil. N-EtFOSAA is a precursor to perfluorooctane sulfonamido acetic acid (PFOS), and its degradation is considered a major source of PFOS in the environment.

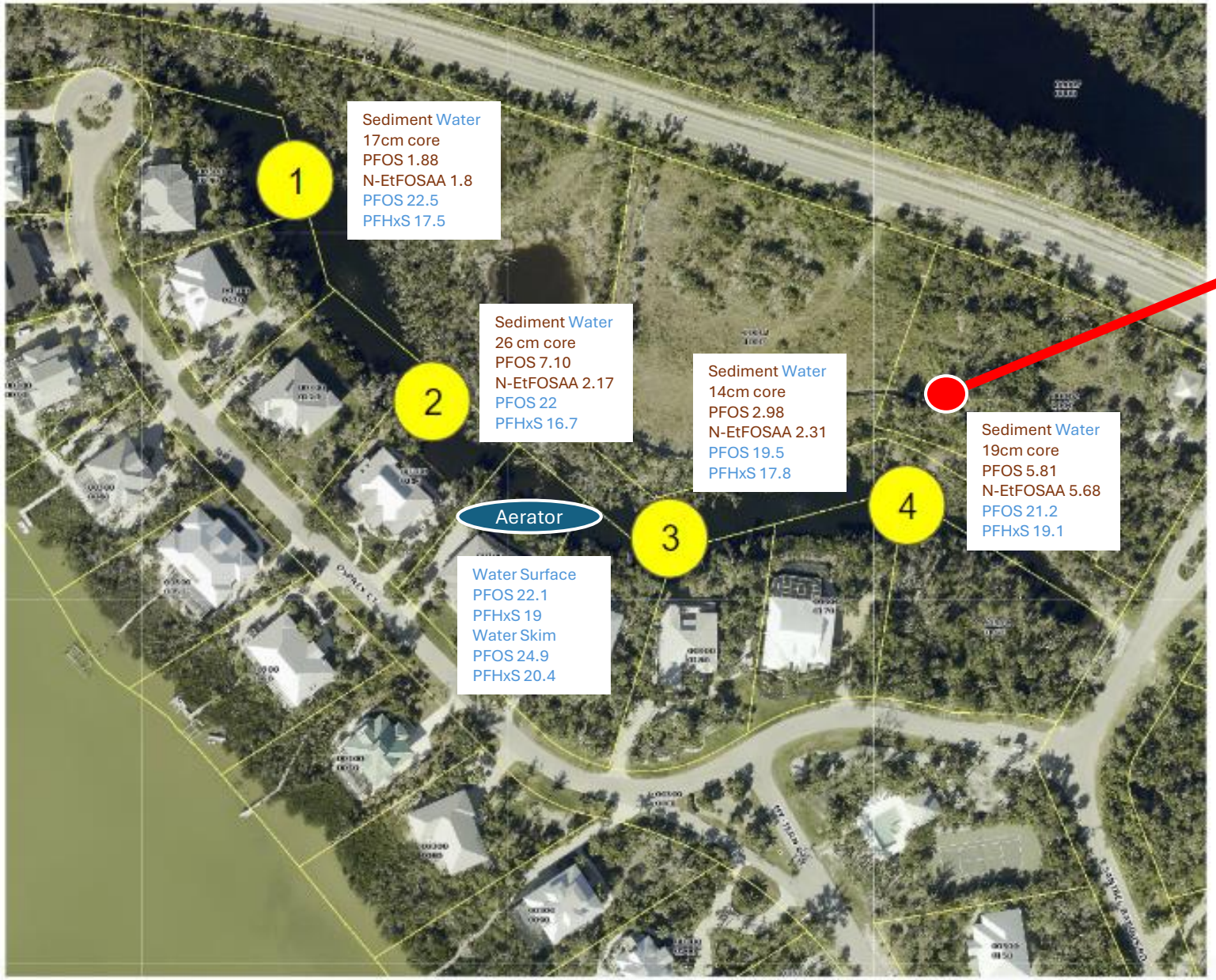
N-EtFOSAA can cause serious health issues, including: cancer, endocrine disruption, accelerated puberty, liver and immune system damage, and thyroid changes.

N-EtFOSAA can also accumulate in people and plants. For example, one study found that N-EtFOSAA was present in the roots of seven different plant species, but not in their stems or leaves.

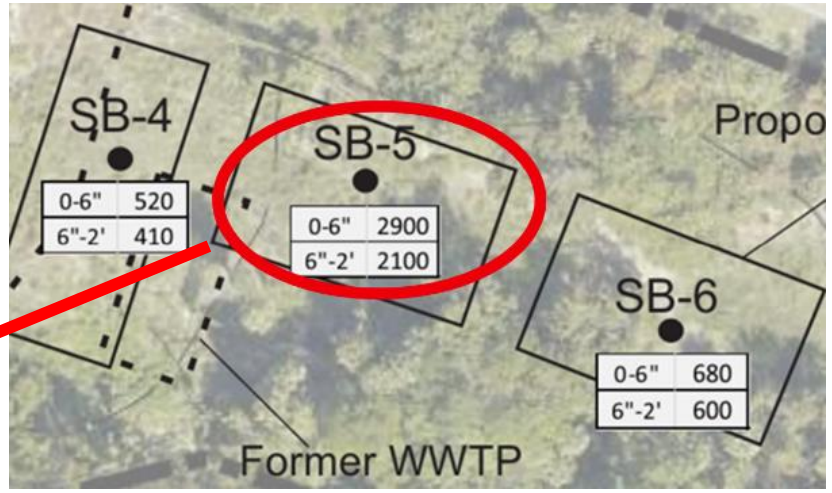
| Water Sample Location | Detected PFOS ng/l | Detected PFHxS ng/l |
|---|---|---|
| W-1 | 22.5 | 17.5 |
| W-2 | 22 | 16.7 |
| W-3 | 19.5 | 17.8 |
| W-4 | 21.2 | 19.1 |
| W-Surface | 22.1 | 19 |
| W-Skim | 24.9 | 20.4 |

| Core Location | Core size (app) cm | PFOS ng/g | N-EtFOSAA (Other ?) ng/g | PFOS mg/kg | |
|---|---|---|---|---|---|
| 1-Clay (top) | 17 | 1.01 | | .00101 | |
| 1-Sediment (second | 17 | 1.88 | 1.8 | .00188 | |

| | | | | | |
|---|---|---|---|---|---|
| layer) | | | | | |
| 1-LSI (?) | 17 | 0.555 | | .00055 | |
| 2-Clay | 26 | 3.89 | | .00389 | |
| 2-Sediment | 26 | 7.10 | 2.17 | 0071 | |
| Core Location | Core size (app) cm | PFOS ng/g | N-EtFOSAA (Other ?) ng/g | PFOS mg/kg | |
| 2-LSI (?) | 26 | 0.724 | | .000724 | |
| 3-Clay | 14 | 2.88 | | .00288 | |
| 3-Sediment | 14 | 2.98 | 2.31 | .00298 | |
| 3-Sand | 14 | clear | clear | | |
| 4-Clay | 19 | 2.35 | | .00235 | |
| 4-Sediment | 19 | 5.81 | 5.68 | .00581 | |
| 4-Sand | 19 | clear | clear | | |




PFAS Sampling (July 17, 2024), EPA 1633 – Aqueous & Solid (units ng/l)




"Startling" Phosphorus 2900-2100 mg/kg (June 15, 2023)



Photograph Heron's Landing Lake (June 28, 2023)

# Florida Gulf Coast University

14065 W. Maple Ave.
Golden, CO 80401

Client Project# 240617-FGCU-PFAS
Samples Received: 7/18/2024

## Analytical Report
## 0724-833B

## DOD QSM Table B-24 EPA (EPA 1633) - non-potable water

PFAS EPA 1633 List

Report Issue Date: 8/15/2024

I certify that to the best of my knowledge all analytical data presented in this report have been checked for completeness, accuracy, errors and legibility in addition to having been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s). This analytical report was prepared in Portable Document Format (.PDF) and contains 101 pages. This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of the report are not taken out of context.

Amendment(s):

Signature:

Laura Boivin, QA Associate II

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# Narrative Summary

# Enthalpy Analytical Narrative Summary

| | |
|---|---|
| Company | Florida Gulf Coast University |
| Job No. | 0724-833 |
| Client ID. | 240617-FGCU-PFAS |

**1. Custody**

Florida Gulf Coast University collected the samples July 17, 2024 and relinquished the samples via UPS for shipment to Enthalpy Analytical, LLC. Cherith McCullagh received the samples at 7.0 °C.

The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

**Table 1 - Sample Inventory**

| EU Lab Sample ID | Client Sample ID | Matrix | Received |
|---|---|---|---|
| 0724-833-003-2 | SCL74_W1 | Aqueous | 2024-07-18 |
| 0724-833-004-2 | SCL74_FIELD BLANK | Aqueous | 2024-07-18 |
| 0724-833-005-1A | SCL74_C1 | Solids | 2024-07-18 |
| 0724-833-005-1B | SCL74_C1 | Solids | 2024-07-18 |
| 0724-833-006-1A | SCL74_S1 | Solids | 2024-07-18 |
| 0724-833-006-1B | SCL74_S1 | Solids | 2024-07-18 |
| 0724-833-007-1A | SCL74_LSI | Solids | 2024-07-18 |
| 0724-833-007-1B | SCL74_LSI | Solids | 2024-07-18 |
| 0724-833-008-2 | SCL74_W2 | Aqueous | 2024-07-18 |
| 0724-833-009-1A | SCL74_C2 | Solids | 2024-07-18 |
| 0724-833-009-1B | SCL74_C2 | Solids | 2024-07-18 |
| 0724-833-010-1A | SCL74_S2 | Solids | 2024-07-18 |
| 0724-833-010-1B | SCL74_S2 | Solids | 2024-07-18 |
| 0724-833-011-1A | SCL74_LS2 | Solids | 2024-07-18 |
| 0724-833-011-1B | SCL74_LS2 | Solids | 2024-07-18 |
| 0724-833-012-2 | SCL74_W3 | Aqueous | 2024-07-18 |
| 0724-833-013-1A | SCL74_C3 | Solids | 2024-07-18 |
| 0724-833-013-1B | SCL74_C3 | Solids | 2024-07-18 |
| 0724-833-014-1A | SCL74_S3 | Solids | 2024-07-18 |
| 0724-833-014-1B | SCL74_S3 | Solids | 2024-07-18 |
| 0724-833-015-1A | SCL74_Sand3 | Solids | 2024-07-18 |
| 0724-833-015-1B | SCL74_Sand3 | Solids | 2024-07-18 |
| 0724-833-016-2 | SCL74_WSURF | Aqueous | 2024-07-18 |
| 0724-833-017-2 | SCL74_W4 | Aqueous | 2024-07-18 |
| 0724-833-018-2 | SCL74_WSkim | Aqueous | 2024-07-18 |
| 0724-833-019-1A | SCL74_C4 | Solids | 2024-07-18 |
| 0724-833-019-1B | SCL74_C4 | Solids | 2024-07-18 |
| 0724-833-020-1A | SCL74_S4 | Solids | 2024-07-18 |
| 0724-833-020-1B | SCL74_S4 | Solids | 2024-07-18 |
| 0724-833-021-1A | SCL74_Sand4 | Solids | 2024-07-18 |
| 0724-833-021-1B | SCL74_Sand4 | Solids | 2024-07-18 |

**2. Methods and Analytes**

A list of analytes of interest and corresponding methods of analysis is shown in Table 3. Abbreviations are defined in the listed Appendices.

# Enthalpy Analytical Narrative Summary

| | |
|---|---|
| Company | Florida Gulf Coast University |
| Job No. | 0724-833 |
| Client ID. | 240617-FGCU-PFAS |

**Table 3 - Methods and Analytes**

| EU Method | Analytes | Cleanup Method |
|---|---|---|
| EU-062 | EPA 1633 List | ENVI-Carb |

**3. Analysis**

The samples were analyzed using Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Pippin").

Select samples were initially screened by direct inject analysis to determine extraction mass/volume.

Subsampling and centrifugation was performed due to sample turbidity where necessary to facilitate extraction.

Select samples were analyzed using more than one extraction batch and/or analytical sequence to meet method acceptance criteria.

**4. Calibration**

In the initial calibration, the reported analytes exhibited an RSD or RSE of ≤ 20%. The reported analytes in the calibration standards, and Initial Calibration Verification (ICV), continuing calibration (concal), and sensitivity check met the accuracy criterion for native analytes.

**5. QC Notes**

Except where noted below, the QC sample analyses passed all method criteria.

QC samples that did not meet method acceptance criteria were:

• 0724-833-021MSD (ADONA)
• 0724-843-002-1MS (3:3 FTCA)
• 0724-843-002-1MSD (3:3 FTCA)

Select analyte(s) deviated outside method recovery and/or RPD limits in the matrix spike (MS) and matrix spike duplicate (MSD) samples. MS/MSD extracts were treated to a dilution factor of three (D3) and reinjected. Where results were confirmed, data is reported as-is from the initial injection. Where results met method criteria, data is reported from the reinjection. MS/MSD criteria apply to the impacted analytes detected ≥ LOQ in the parent sample. Lab precision may be affected by matrix or homogeneity of the sample.

Select analytes and surrogates (ES) deviated outside method control limits in OPR_17844_PFAS. All batched samples were re-extracted for these compounds and successfully reported in batch 17914. All data is provided.

DOD QSM Table B-24 (EPA 1633) samples were extracted within 28 days, and extracts analyzed within 28 days.

# Enthalpy Analytical Narrative Summary

| | |
|---|---|
| Company | Florida Gulf Coast University |
| Job No. | 0724-833 |
| Client ID. | 240617-FGCU-PFAS |

**6. Reporting Notes**

The results presented in this report are representative of the samples as provided to the laboratory.

The area responses for the non-extracted internal standards (injection standards or JS) met method criteria.

Solid results are reported on a dry weight basis. “As Is” results are available upon request.

The ion ratios for all compounds were within tolerance.

The following samples had manual integrations on one or more peaks. The associated comments are included below.

0724-833-003-2- "bb; C JDG 7/30/24"
0724-833-003-2- "bb; R JDG 7/30/24"
0724-833-003-2- "MM-; R JDG 7/30/24"
0724-833-003-2- "MM; C JDG 7/30/24"
0724-833-003-2- "MM; N JDG 7/30/24"
0724-833-004-2- "MM-; R JDG 7/30/24"
0724-833-004-2- "MM; C JDG 7/30/24"
0724-833-005-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-005-1A- "MM; c R.H.H. 08/02/2024"
0724-833-005-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-005-1B- "MM; c R.H.H. 08/08/2024"
0724-833-006-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-006-1A- "MM; c R.H.H. 08/02/2024"
0724-833-006-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-006-1B- "MM; c R.H.H. 08/08/2024"
0724-833-007-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-007-1A- "MM; c R.H.H. 08/02/2024"
0724-833-007-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-007-1B- "MM; c R.H.H. 08/08/2024"

0724-833-008-2- "MM-; R JDG 7/30/24"
0724-833-008-2- "MM-; R JDG 7/30/24"
0724-833-008-2- "MM; C JDG 7/30/24"
0724-833-008-2- "MM; N JDG 7/30/24"
0724-833-009-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-009-1A- "MM; c R.H.H. 08/02/2024"
0724-833-009-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-009-1B- "MM; c R.H.H. 08/08/2024"
0724-833-010-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-010-1A- "MM; c R.H.H. 08/02/2024"
0724-833-010-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-010-1B- "MM; c R.H.H. 08/08/2024"
0724-833-011-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-011-1A- "MM; c R.H.H. 08/02/2024"

# Enthalpy Analytical Narrative Summary

| | |
|---|---|
| Company | Florida Gulf Coast University |
| Job No. | 0724-833 |
| Client ID. | 240617-FGCU-PFAS |

0724-833-011-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-011-1B- "MM; c R.H.H. 08/08/2024"
0724-833-012-2- "MM-; R JDG 7/30/24"
0724-833-012-2- "MM-; R JDG 7/30/24"
0724-833-012-2- "MM; C JDG 7/30/24"
0724-833-012-2- "MM; N JDG 7/30/24"
0724-833-013-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-013-1A- "MM; c R.H.H. 08/02/2024"
0724-833-013-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-013-1B- "MM; c R.H.H. 08/08/2024"
0724-833-014-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-014-1A- "MM; c R.H.H. 08/02/2024"
0724-833-014-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-014-1B- "MM; c R.H.H. 08/08/2024"
0724-833-015-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-015-1A- "MM; c R.H.H. 08/02/2024"
0724-833-015-1B- "MM-; r R.H.H. 08/08/2024"

0724-833-016-2- "MM-; C JDG 7/30/24"
0724-833-016-2- "MM-; R JDG 7/30/24"
0724-833-016-2- "MM; C JDG 7/30/24"
0724-833-016-2- "MM; N JDG 7/30/24"
0724-833-017-2- "MM-; R JDG 7/30/24"
0724-833-017-2- "MM-; R JDG 7/30/24"
0724-833-017-2- "MM; C JDG 7/30/24"
0724-833-017-2- "MM; N JDG 7/30/24"
0724-833-018-2- "MM-; R JDG 7/30/24"
0724-833-018-2- "MM-; R JDG 7/30/24"
0724-833-018-2- "MM; C JDG 7/30/24"
0724-833-018-2- "MM; N JDG 7/30/24"
0724-833-019-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-019-1A- "MM; c R.H.H. 08/02/2024"
0724-833-019-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-019-1B- "MM; c R.H.H. 08/08/2024"
0724-833-020-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-020-1A- "MM; c R.H.H. 08/02/2024"
0724-833-020-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-020-1B- "MM; c R.H.H. 08/08/2024"
0724-833-020-1MS- "MM; c R.H.H. 08/08/2024"
0724-833-020-1MSD- "MM; c R.H.H. 08/08/2024"
0724-833-021-1A- "MM-; r R.H.H. 08/02/2024"
0724-833-021-1B- "MM-; r R.H.H. 08/08/2024"
0724-833-021MS- "bb; n R.H.H. 08/02/2024"
0724-833-021MS- "MM; c R.H.H. 08/02/2024"
0724-833-021MSD- "bb; n R.H.H. 08/02/2024"
0724-833-021MSD- "MM; c R.H.H. 08/02/2024"
0724-843-002-1MS- "bb; N JDG 7/30/24"
0724-843-002-1MS- "MM; C JDG 7/30/24"
0724-843-002-1MSD- "bb; N JDG 7/30/24"
0724-843-002-1MSD- "MM; C JDG 7/30/24"

# Enthalpy Analytical Narrative Summary

| | |
|---|---|
| Company | Florida Gulf Coast University |
| Job No. | 0724-833 |
| Client ID. | 240617-FGCU-PFAS |

LLOPR_17844_PFAS- "bb; n R.H.H. 08/02/2024"
LLOPR_17844_PFAS- "MM; c R.H.H. 08/02/2024"
LLOPR_17848_PFAS- "bb; R JDG 7/30/24"
LLOPR_17848_PFAS- "MM; C JDG 7/30/24"
LLOPR_17914_PFAS- "MM; c R.H.H. 08/08/2024"
MB_17844_PFAS- "MM-; r R.H.H. 08/02/2024"
MB_17848_PFAS- "bb; N JDG 7/30/24"
MB_17848_PFAS- "MM-; R JDG 7/30/24"
MB_17848_PFAS- "MM-; R JDG 7/30/24"
MB_17848_PFAS- "MM; C JDG 7/30/24"
MB_17914_PFAS- "MM-; r R.H.H. 08/08/2024"
OPR_17844_PFAS- "bb; n R.H.H. 08/02/2024"
OPR_17844_PFAS- "MM; c R.H.H. 08/02/2024"
OPR_17848_PFAS- "bb; R JDG 7/30/24"
OPR_17848_PFAS- "MM; C JDG 7/30/24"
OPR_17914_PFAS- "MM; c R.H.H. 08/08/2024"

Shaded areas in the chromatograms display the peak integration used for the final results. Dashed lines show the original integration, and solid lines show the final integration.

These analyses met the requirements of the DoD QSM 5.4. Any deviations from the requirements of the reference method or the QSM have been stated above.

Enthalpy Analytical, LLC in Wilmington NC is accredited by ANAB to perform testing to the DOD ELAP QSM 5.4 standards under certificate number ADE-2835.

# General e ortin otes ata ualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

**General ata ualifiers**

Ac - Alternate calculation flag indicates the es recovery was calculated using the opening concal when either of the following situations is encountered in the data processing software: the ES recovery is over 400% or the JS is not detected.

B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.

Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter

E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.

EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.

EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.

I/IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.

J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range

L - For reports containing PFAS analytes only, this flag indicates that an analyte has a concentration below the Minimum Detection Limit (MDL) . The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.

LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.

LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.

<LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.

<LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.

ND – Indicates a non-detect.

NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.

PR – The associated congener(s) is(are) poorly resolved.

QI – Indicates the presence of a quantitative interference.

RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.

SI – Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.

U – The analyte was not detected.

V / Q – The labeled standard recovery is not within method control limits.

X – Indicates the result is from re-injection/repeat/second-column analysis.

**a dentifiers ata ttri utes**

AR – Indicates use of the archived portion of the sample extract.

CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.

D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.

DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.

DUP – Designation for a duplicate sample.

MS – Designation for a matrix spike.

MSD – Designation for a matrix spike duplicate.

R – Indicates a re-extraction of the sample.

RJ – Indicates a reinjection of the sample extract.

S – Indicates a sample split. The number that follows the "S" indicates the split factor.

SAT – Indicates an analyte saturated the detector.

| | PFAS Compound Acronym List | | |
|---|---|---|---|
| | **Acronym** | **CAS #** | **Compound Name** |
| | *** accredited for SOP EU047 / EPA method 1633** | | ***# Method 537.1 Accredited ^ Method 533 Accredited ~EPA 1633 extended list*** |
| | | | |
| | **Target Analytes** | | |
| ~ | PFPrA | | 2,2,3,3,3-Pentafluoropropionic acid |
| *, ^ | PFBA | 375-22-4 | Perfluorobutanoic Acid |
| *, #, ^ | PFPeA | 2706-90-3 | Perfluoropentanoic Acid |
| *, #, ^ | PFHxA | 307-24-4 | Perfluorohexanoic Acid |
| *, #, ^ | PFHpA | 375-85-9 | Perfluoroheptanoic Acid |
| *, #, ^ | PFOA | 335-67-1 | Perfluorooctanoic Acid |
| *, #, ^ | PFNA | 375-95-1 | Perfluorononanoic Acid |
| *, #, ^ | PFDA | 335-76-2 | Perfluorodecanoic acid |
| *, #, ^ | PFUnA (PFUnDA) | 2058-94-8 | Perfluoroundecanoic acid |
| *, # | PFDoA (PFDoDA) | 307-55-1 | Perfluorododecanoic acid |
| *, # | PFTrDA (PFTriA) | 72629-94-8 | Perfluorotridecanoic acid |
| *, #, ^ | PFTeDA (PFTA) | 376-06-7 | Perfluorotetradecanoic acid |
| ~ | PFPrS (PFPS) | 423-41-6 | Perfluoropropanesulfonic acid |
| *, ^ | PFBS | 375-73-5 | Perfluorobutane sulfonic acid |
| *, #, ^ | PFPeS | 2706-91-4 | Perfluoropentane sulfonic acid |
| *, ^ | PFHxS | 355-46-4 | Perfluorohexane sulfonic acid |
| *, #, ^ | PFHpS | 375-92-8 | Perfluoroheptane sulfonic acid |
| *, #, ^ | PFOS | 1763-23-1 | Perfluorooctane sulfonic acid |
| * | PFNS | 68259-12-1 | Perfluorononane sulfonic acid |
| * | PFDS | 335-77-3 | Perfluorodecane sulfonic acid |
| *, ^ | 4:2 FTS | 757124-72-4 | 4:2 fluorotelomer sulfonic acid |
| *, ^ | 6:2 FTS | 27619-97-2 | 6:2 fluorotelomer sulfonic acid |
| *, ^ | 8:2 FTS | 39108-34-4 | 8:2 fluorotelomer sulfonic acid |
| ~ | 10:2 FTS | 120226-60-0 | Fluorotelomer sulfonate 10:2 |
| ~ | FHxSA | 41997-13-1 | Perfluorohexanesulfonamide |
| * | PFOSA (FOSA) | 754-91-6 | Perfluorooctane sulfonamide |
| *, # | N-MeFOSAA | 2355-31-9 | N-methyl perfluorooctane sulfonamido acetic acid |
| *, # | N-EtFOSAA | 2991-50-6 | N-ethyl perfluorooctane sulfonamido acetic acid |
| *, #, ^ | HFPO-DA | 13252-13-6 | 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) |
| *, #, ^ | 11Cl-PF3OUdS | 763051-92-9 | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid |
| *, #, ^ | 9Cl-PF3ONS | 756426-58-1 | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid |
| *, #, ^ | ADONA | 919005-14-4 | 4,8-dioxa-3H-perfluorononanoic acid |
| *, ^ | PFEESA | 113507-82-7 | Perfluoro(2-ethoxyethane)sulphonic acid |
| *, ^ | PFMOBA (PFMBA) | 863090-89-5 | Perfluoro-4-methoxybutanic acid |
| *, ^ | NFDHA | 151772-58-6 | Nonafluoro-3,6-dioxaheptanoic acid |
| *, ^ | PFMOPrA (PFMPA) | 377-73-1 | Perfluoro-3-methoxypropanoic acid |
| ~ | PFMOAA | 674-13-5 | Perfluoro-2-methoxyacetic acid |
| ~ | PFO2HxA | 39492-88-1 | Perfluoro (3,5-dioxahexanoic) acid |
| ~ | PFO3OA | 39492-89-2 | Perfluoro (3,5,7-trioxaoctanoic) acid |
| ~ | PFO4DA | 39492-90-5 | Perfluoro (3,5,7,9-tetraoxadecanoic) acid |
| ~ | PFO5DA | 39492-91-6 | Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid |
| ~ | Nafion Byproduct 1 (PS Acid) | 29311-67-9 | Nafion Byproduct 1 |
| ~ | Nafion Byproduct 2 (Hydro-PS Acid) | 749836-20-2 | Nafion Byproduct 2 |
| ~ | PEPA | 267239-61-2 | Perfluoro-2-ethoxypropanoic acid |
| ~ | PMPA | 13140-29-9 | Perfluoro-2-methoxypropanoic acid |
| * | N-EtFOSA | 4151-50-2 | N-ethylperfluoro-1-octanesulfonamide |
| * | N-EtFOSE | 1691-99-2 | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol |
| * | N-MeFOSA | 31506-32-8 | N-methylperfluoro-1-octanesulfonamide |
| * | M | | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol |

| | PFAS Compound Acronym List | | |
|---|---|---|---|
| | **Acronym** | **CAS #** | **Compound Name** |
| | *** accredited for SOP EU047 / EPA method 1633** | | ***# Method 537.1 Accredited ^ Method 533 Accredited ~EPA 1633 extended list*** |
| ~ | PFECA-G | | 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid |
| ~ | PFHxDA | | Perfluorohexadecanoic acid |
| ~ | R-PSDA (Nafion Byproduct 4) | 2416366-18-0 | Perfluoro-4-(2-sulfoethoxy)pentanoic acid |
| ~ | Hydrolyzed PSDA (Nafion Byproduct 5) | 2416366-19-1 | 2-fluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]-acetic acid |
| ~ | R-PSDCA (Nafion Byproduct 6) | 2416366-21-5 | 1,1,2,2-tetrafluoro-2-[1,2,2,3,3-pentafluoro-1-(trifluoromethyl)propoxy] ethanesulfonic acid |
| ~ | EVE Acid | 69087-46-3 | 2,2,3,3-tetrafluoro-3-({1,1,1,2,3,3-hexafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propan-2-yl}oxy)propionic acid |
| ~ | FBSA | 30334-69-1 | Perfluorobutylsulfonamide |
| ~ | MeFBSA | 68298-12-4 | 1-Butanesulfonamide; (N-(Methyl)nonafluorobutanesulfonamide) |
| ~ | Hydro-EVE Acid | 773804-62-9 | 2,2,3,3-Tetrafluoro-3-{[1,1,1,2,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propan-2-yl]oxy}propanoic acid |
| ~ | R-EVE Acid | 2416366-22-6 | 4-(2-carboxy-1,1,2,2-tetrafluoroethoxy)-2,2,3,3,4,5,5,5-octafluoro-pentanoic acid |
| ~ | NVHOS | 1132933-86-8 | Perfluoroethoxysulfonic acid |
| ~ | PFDoS | 79780-39-5 | Perfluorododecane sulfonic acid |
| ~ | PFODA | 16517-11-6 | Perfluorooctadecanoic acid |
| * | 3:3 FTCA | 356-02-5 | 2H,2H,3H,3H-Perfluorohexanoic acid |
| * | 5:3 FTCA | 914637-49-3 | 2H,2H,3H,3H-Perfluorooctanoic acid |
| * | 7:3 FTCA | 812-70-4 | 2H,2H,3H,3H-Perfluorodecanoic acid |
| ~ | | | N-(3-(Dimethylamino)propyl)tridecafluoro-1-hexanesulfonamide |
| ~ | M | | N-(Carboxymethyl)-N,N-dimethyl-3-(((3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl)amino)1-propanaminium |
| ~ | | | |
| ~ | | | r r d |

# Results

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University 240617-FGCU-PFAS

## Summary

| | Compound | CAS | SCL74_W1 ng/L | SCL74_FIELD BLANK ng/L | SCL74_W2 ng/L | SCL74_W3 ng/L | SCL74_WSURF ng/L |
|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | <LOQ (66.7) U | <LOQ (15.7) U | <LOQ (66.7) U | <LOQ (66.7) U | <LOQ (66.7) U |
| | PFPeA | 2706-90-3 | <LOQ (33.3) U | <LOQ (7.87) U | <LOQ (33.3) U | <LOQ (33.3) U | <LOQ (33.3) U |
| | PFHxA | 307-24-4 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFHpA | 375-85-9 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFOA | 335-67-1 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFNA | 375-95-1 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFDA | 335-76-2 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFUnDA | 2058-94-8 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFDoA | 307-55-1 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFTrDA | 72629-94-8 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFTeDA | 376-06-7 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| Sulfonates | PFBS | 375-73-5 | <LOQ (14.8) U | <LOQ (3.49) U | <LOQ (14.8) U | <LOQ (14.8) U | <LOQ (14.8) U |
| | PFPeS | 2706-91-4 | <LOQ (15.7) U | <LOQ (3.70) U | <LOQ (15.7) U | <LOQ (15.7) U | <LOQ (15.7) U |
| | PFHxS | 355-46-4 | 17.5 | <LOQ (3.59) U | 16.7 | 17.8 | 19.0 |
| | PFHpS | 375-92-8 | <LOQ (15.9) U | <LOQ (3.75) U | <LOQ (15.9) U | <LOQ (15.9) U | <LOQ (15.9) U |
| | PFOS | 1763-23-1 | 22.5 | <LOQ (3.65) U | 22.0 | 19.5 | 22.1 |
| | PFNS | 68259-12-1 | <LOQ (16.0) U | <LOQ (3.78) U | <LOQ (16.0) U | <LOQ (16.0) U | <LOQ (16.0) U |
| | PFDS | 335-77-3 | <LOQ (16.1) U | <LOQ (3.79) U | <LOQ (16.1) U | <LOQ (16.1) U | <LOQ (16.1) U |
| | PFDoS | 79780-39-5 | <LOQ (16.2) U | <LOQ (3.81) U | <LOQ (16.2) U | <LOQ (16.2) U | <LOQ (16.2) U |
| | 4:2 FTS | 757124-72-4 | <LOQ (62.5) U | <LOQ (14.7) U | <LOQ (62.5) U | <LOQ (62.5) U | <LOQ (62.5) U |
| | 6:2 FTS | 27619-97-2 | <LOQ (63.3) U | <LOQ (14.9) U | <LOQ (63.3) U | <LOQ (63.3) U | <LOQ (63.3) U |
| | 8:2 FTS | 39108-34-4 | <LOQ (64.0) U | <LOQ (15.1) U | <LOQ (64.0) U | <LOQ (64.0) U | <LOQ (64.0) U |
| Sulfonmides | PFOSA | 754-91-6 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-MeFOSA | 31506-32-8 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-EtFOSA | 4151-50-2 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-MeFOSE | 24448-09-7 | <LOQ (167) U | <LOQ (39.3) U | <LOQ (167) U | <LOQ (167) U | <LOQ (167) U |
| | N-EtFOSE | 1691-99-2 | <LOQ (167) U | <LOQ (39.3) U | <LOQ (167) U | <LOQ (167) U | <LOQ (167) U |
| PFECAs | HFPO-DA | 13252-13-6 | <LOQ (66.7) U | <LOQ (15.7) U | <LOQ (66.7) U | <LOQ (66.7) U | <LOQ (66.7) U |
| | PFMBA | 863090-89-5 | <LOQ (33.3) U | <LOQ (7.87) U | <LOQ (33.3) U | <LOQ (33.3) U | <LOQ (33.3) U |
| | PFMPA | 377-73-1 | <LOQ (33.3) U | <LOQ (7.87) U | <LOQ (33.3) U | <LOQ (33.3) U | <LOQ (33.3) U |
| | NFDHA | 151772-58-6 | <LOQ (33.3) U | <LOQ (7.87) U | <LOQ (33.3) U | <LOQ (33.3) U | <LOQ (33.3) U |
| FTCAs | 3:3 FTCA | 356-02-5 | <LOQ (83.3) U | <LOQ (19.7) U | <LOQ (83.3) U | <LOQ (83.3) U | <LOQ (83.3) U |
| | 5:3 FTCA | 914637-49-3 | <LOQ (83.3) U | <LOQ (19.7) U | <LOQ (83.3) U | <LOQ (83.3) U | <LOQ (83.3) U |
| | 7:3 FTCA | 812-70-4 | <LOQ (83.3) U | <LOQ (19.7) U | <LOQ (83.3) U | <LOQ (83.3) U | <LOQ (83.3) U |
| Other | ADONA | 919005-14-4 | <LOQ (63.0) U | <LOQ (14.9) U | <LOQ (63.0) U | <LOQ (63.0) U | <LOQ (63.0) U |
| | 9Cl-PF3ONS | 756426-58-1 | <LOQ (62.3) U | <LOQ (14.7) U | <LOQ (62.3) U | <LOQ (62.3) U | <LOQ (62.3) U |
| | N-MeFOSAA | 2355-31-9 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | 11Cl-PF3OUdS | 763051-92-9 | <LOQ (63.0) U | <LOQ (14.9) U | <LOQ (63.0) U | <LOQ (63.0) U | <LOQ (63.0) U |
| | N-EtFOSAA | 2991-50-6 | <LOQ (16.7) U | <LOQ (3.93) U | <LOQ (16.7) U | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFEESA | 113507-82-7 | <LOQ (29.7) U | <LOQ (7.00) U | <LOQ (29.7) U | <LOQ (29.7) U | <LOQ (29.7) U |

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University 240617-FGCU-PFAS

## Summary

| | Compound | CAS | SCL74_W4 ng/L | SCL74_WSkim ng/L |
|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | <LOQ (66.7) U | <LOQ (66.7) U |
| | PFPeA | 2706-90-3 | <LOQ (33.3) U | <LOQ (33.3) U |
| | PFHxA | 307-24-4 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFHpA | 375-85-9 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFOA | 335-67-1 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFNA | 375-95-1 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFDA | 335-76-2 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFUnDA | 2058-94-8 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFDoA | 307-55-1 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFTrDA | 72629-94-8 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFTeDA | 376-06-7 | <LOQ (16.7) U | <LOQ (16.7) U |
| Sulfonates | PFBS | 375-73-5 | <LOQ (14.8) U | <LOQ (14.8) U |
| | PFPeS | 2706-91-4 | <LOQ (15.7) U | <LOQ (15.7) U |
| | PFHxS | 355-46-4 | 19.1 | 20.4 |
| | PFHpS | 375-92-8 | <LOQ (15.9) U | <LOQ (15.9) U |
| | PFOS | 1763-23-1 | 21.2 | 24.9 |
| | PFNS | 68259-12-1 | <LOQ (16.0) U | <LOQ (16.0) U |
| | PFDS | 335-77-3 | <LOQ (16.1) U | <LOQ (16.1) U |
| | PFDoS | 79780-39-5 | <LOQ (16.2) U | <LOQ (16.2) U |
| | 4:2 FTS | 757124-72-4 | <LOQ (62.5) U | <LOQ (62.5) U |
| | 6:2 FTS | 27619-97-2 | <LOQ (63.3) U | <LOQ (63.3) U |
| | 8:2 FTS | 39108-34-4 | <LOQ (64.0) U | <LOQ (64.0) U |
| Sulfonmides | PFOSA | 754-91-6 | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-MeFOSA | 31506-32-8 | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-EtFOSA | 4151-50-2 | <LOQ (16.7) U | <LOQ (16.7) U |
| | N-MeFOSE | 24448-09-7 | <LOQ (167) U | <LOQ (167) U |
| | N-EtFOSE | 1691-99-2 | <LOQ (167) U | <LOQ (167) U |
| PFECAs | HFPO-DA | 13252-13-6 | <LOQ (66.7) U | <LOQ (66.7) U |
| | PFMBA | 863090-89-5 | <LOQ (33.3) U | <LOQ (33.3) U |
| | PFMPA | 377-73-1 | <LOQ (33.3) U | <LOQ (33.3) U |
| | NFDHA | 151772-58-6 | <LOQ (33.3) U | <LOQ (33.3) U |
| FTCAs | 3:3 FTCA | 356-02-5 | <LOQ (83.3) U | <LOQ (83.3) U |
| | 5:3 FTCA | 914637-49-3 | <LOQ (83.3) U | <LOQ (83.3) U |
| | 7:3 FTCA | 812-70-4 | <LOQ (83.3) U | <LOQ (83.3) U |
| Other | ADONA | 919005-14-4 | <LOQ (63.0) U | <LOQ (63.0) U |
| | 9Cl-PF3ONS | 756426-58-1 | <LOQ (62.3) U | <LOQ (62.3) U |
| | N-MeFOSAA | 2355-31-9 | <LOQ (16.7) U | <LOQ (16.7) U |
| | 11Cl-PF3OUdS | 763051-92-9 | <LOQ (63.0) U | <LOQ (63.0) U |
| | N-EtFOSAA | 2991-50-6 | <LOQ (16.7) U | <LOQ (16.7) U |
| | PFEESA | 113507-82-7 | <LOQ (29.7) U | <LOQ (29.7) U |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Summary

| | Compound | CAS | SCL74_C1 ng/g | SCL74_S1 ng/g | SCL74_LSI ng/g | SCL74_C2 ng/g | SCL74_S2 ng/g |
|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | <LOQ (3.04) U | <LOQ (2.62) U | <LOQ (1.49) U | <LOQ (9.82) U | <LOQ (7.89) U |
| | PFPeA | 2706-90-3 | <LOQ (1.50) U | <LOQ (1.31) U | <LOQ (0.729) U | <LOQ (4.97) U | <LOQ (3.99) U |
| | PFHxA | 307-24-4 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | PFHpA | 375-85-9 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | PFOA | 335-67-1 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | PFNA | 375-95-1 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | PFDA | 335-76-2 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| | PFUnDA | 2058-94-8 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| | PFDoA | 307-55-1 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| | PFTrDA | 72629-94-8 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| | PFTeDA | 376-06-7 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| Sulfonates | PFBS | 375-73-5 | <LOQ (0.675) U | <LOQ (0.581) U | <LOQ (0.330) U | <LOQ (2.18) U | <LOQ (1.75) U |
| | PFPeS | 2706-91-4 | <LOQ (0.705) U | <LOQ (0.616) U | <LOQ (0.343) U | <LOQ (2.34) U | <LOQ (1.88) U |
| | PFHxS | 355-46-4 | <LOQ (0.685) U | <LOQ (0.598) U | <LOQ (0.333) U | <LOQ (2.27) U | <LOQ (1.82) U |
| | PFHpS | 375-92-8 | <LOQ (0.725) U | <LOQ (0.624) U | <LOQ (0.355) U | <LOQ (2.34) U | <LOQ (1.88) U |
| | PFOS | 1763-23-1 | 1.10 | 1.88 | 0.555 | 3.89 | 7.10 |
| | PFNS | 68259-12-1 | <LOQ (0.721) U | <LOQ (0.630) U | <LOQ (0.351) U | <LOQ (2.39) U | <LOQ (1.92) U |
| | PFDS | 335-77-3 | <LOQ (0.723) U | <LOQ (0.632) U | <LOQ (0.352) U | <LOQ (2.40) U | <LOQ (1.92) U |
| | 4:2 FTS | 757124-72-4 | <LOQ (2.81) U | <LOQ (2.46) U | <LOQ (1.37) U | <LOQ (9.32) U | <LOQ (7.47) U |
| | PFDoS | 79780-39-5 | <LOQ (0.727) U | <LOQ (0.635) U | <LOQ (0.354) U | <LOQ (2.41) U | <LOQ (1.93) U |
| | 6:2 FTS | 27619-97-2 | <LOQ (2.85) U | <LOQ (2.49) U | <LOQ (1.39) U | <LOQ (9.44) U | <LOQ (7.57) U |
| | 8:2 FTS | 39108-34-4 | <LOQ (2.92) U | <LOQ (2.51) U | <LOQ (1.43) U | <LOQ (9.43) U | <LOQ (7.58) U |
| Sulfonmides | PFOSA | 754-91-6 | <LOQ (0.761) U | <LOQ (0.655) U | <LOQ (0.373) U | <LOQ (2.46) U | <LOQ (1.97) U |
| | N-MeFOSA | 31506-32-8 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | N-EtFOSA | 4151-50-2 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | N-MeFOSE | 24448-09-7 | <LOQ (7.61) U | <LOQ (6.55) U | <LOQ (3.73) U | <LOQ (24.6) U | <LOQ (19.7) U |
| | N-EtFOSE | 1691-99-2 | <LOQ (7.61) U | <LOQ (6.55) U | <LOQ (3.73) U | <LOQ (24.6) U | <LOQ (19.7) U |
| PFECAs | HFPO-DA | 13252-13-6 | <LOQ (3.04) U | <LOQ (2.62) U | <LOQ (1.49) U | <LOQ (9.82) U | <LOQ (7.89) U |
| | PFMBA | 863090-89-5 | <LOQ (1.50) U | <LOQ (1.31) U | <LOQ (0.729) U | <LOQ (4.97) U | <LOQ (3.99) U |
| | PFMPA | 377-73-1 | <LOQ (1.50) U | <LOQ (1.31) U | <LOQ (0.729) U | <LOQ (4.97) U | <LOQ (3.99) U |
| | NFDHA | 151772-58-6 | <LOQ (1.50) U | <LOQ (1.31) U | <LOQ (0.729) U | <LOQ (4.97) U | <LOQ (3.99) U |
| FTCAs | 3:3 FTCA | 356-02-5 | <LOQ (3.75) U | <LOQ (3.27) U | <LOQ (1.82) U | <LOQ (12.4) U | <LOQ (9.96) U |
| | 5:3 FTCA | 914637-49-3 | <LOQ (3.75) U | <LOQ (3.27) U | <LOQ (1.82) U | <LOQ (12.4) U | <LOQ (9.96) U |
| | 7:3 FTCA | 812-70-4 | <LOQ (3.81) U | <LOQ (3.27) U | <LOQ (1.86) U | <LOQ (12.3) U | <LOQ (9.87) U |
| Other | ADONA | 919005-14-4 | <LOQ (2.88) U | <LOQ (2.47) U | <LOQ (1.41) U | <LOQ (9.28) U | <LOQ (7.46) U |
| | 9Cl-PF3ONS | 756426-58-1 | <LOQ (2.80) U | <LOQ (2.45) U | <LOQ (1.36) U | <LOQ (9.29) U | <LOQ (7.45) U |
| | N-MeFOSAA | 2355-31-9 | <LOQ (0.749) U | <LOQ (0.655) U | <LOQ (0.365) U | <LOQ (2.48) U | <LOQ (1.99) U |
| | 11Cl-PF3OUdS | 763051-92-9 | <LOQ (2.83) U | <LOQ (2.47) U | <LOQ (1.38) U | <LOQ (9.39) U | <LOQ (7.53) U |
| | N-EtFOSAA | 2991-50-6 | <LOQ (0.749) U | 1.80 | <LOQ (0.365) U | <LOQ (2.48) U | 2.17 |
| | PFEESA | 113507-82-7 | <LOQ (1.33) U | <LOQ (1.17) U | <LOQ (0.649) U | <LOQ (4.42) U | <LOQ (3.55) U |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)

Florida Gulf Coast University 240617-FGCU-PFAS

## Summary

| | Compound | CAS | SCL74_LS2 ng/g | SCL74_C3 ng/g | SCL74_S3 ng/g | SCL74_Sand3 ng/g | SCL74_C4 ng/g |
|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | <LOQ (2.01) U | <LOQ (8.91) U | <LOQ (3.40) U | <LOQ (1.04) U | <LOQ (5.17) U |
| | PFPeA | 2706-90-3 | <LOQ (1.01) U | <LOQ (4.44) U | <LOQ (1.66) U | <LOQ (0.507) U | <LOQ (2.43) U |
| | PFHxA | 307-24-4 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | PFHpA | 375-85-9 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | PFOA | 335-67-1 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | PFNA | 375-95-1 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | PFDA | 335-76-2 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| | PFUnDA | 2058-94-8 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| | PFDoA | 307-55-1 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| | PFTrDA | 72629-94-8 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| | PFTeDA | 376-06-7 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| Sulfonates | PFBS | 375-73-5 | <LOQ (0.445) U | <LOQ (1.98) U | <LOQ (0.753) U | <LOQ (0.231) U | <LOQ (1.15) U |
| | PFPeS | 2706-91-4 | <LOQ (0.474) U | <LOQ (2.09) U | <LOQ (0.779) U | <LOQ (0.239) U | <LOQ (1.14) U |
| | PFHxS | 355-46-4 | <LOQ (0.460) U | <LOQ (2.03) U | <LOQ (0.757) U | <LOQ (0.232) U | <LOQ (1.11) U |
| | PFHpS | 375-92-8 | <LOQ (0.479) U | <LOQ (2.12) U | <LOQ (0.810) U | <LOQ (0.248) U | <LOQ (1.23) U |
| | PFOS | 1763-23-1 | 0.724 | 2.88 | 2.98 | <LOQ (0.241) U | 2.35 |
| | PFNS | 68259-12-1 | <LOQ (0.484) U | <LOQ (2.13) U | <LOQ (0.797) U | <LOQ (0.244) U | <LOQ (1.17) U |
| | PFDS | 335-77-3 | <LOQ (0.486) U | <LOQ (2.14) U | <LOQ (0.799) U | <LOQ (0.245) U | <LOQ (1.17) U |
| | 4:2 FTS | 757124-72-4 | <LOQ (1.89) U | <LOQ (8.32) U | <LOQ (3.11) U | <LOQ (0.951) U | <LOQ (4.55) U |
| | PFDoS | 79780-39-5 | <LOQ (0.488) U | <LOQ (2.15) U | <LOQ (0.803) U | <LOQ (0.246) U | <LOQ (1.18) U |
| | 6:2 FTS | 27619-97-2 | <LOQ (1.91) U | <LOQ (8.43) U | <LOQ (3.15) U | <LOQ (0.964) U | <LOQ (4.62) U |
| | 8:2 FTS | 39108-34-4 | <LOQ (1.93) U | <LOQ (8.55) U | <LOQ (3.26) U | <LOQ (0.999) U | <LOQ (4.97) U |
| Sulfonmides | PFOSA | 754-91-6 | <LOQ (0.502) U | <LOQ (2.23) U | <LOQ (0.850) U | <LOQ (0.260) U | <LOQ (1.29) U |
| | N-MeFOSA | 31506-32-8 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | N-EtFOSA | 4151-50-2 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | N-MeFOSE | 24448-09-7 | <LOQ (5.02) U | <LOQ (22.3) U | <LOQ (8.50) U | <LOQ (2.60) U | <LOQ (12.9) U |
| | N-EtFOSE | 1691-99-2 | <LOQ (5.02) U | <LOQ (22.3) U | <LOQ (8.50) U | <LOQ (2.60) U | <LOQ (12.9) U |
| PFECAs | HFPO-DA | 13252-13-6 | <LOQ (2.01) U | <LOQ (8.91) U | <LOQ (3.40) U | <LOQ (1.04) U | <LOQ (5.17) U |
| | PFMBA | 863090-89-5 | <LOQ (1.01) U | <LOQ (4.44) U | <LOQ (1.66) U | <LOQ (0.507) U | <LOQ (2.43) U |
| | PFMPA | 377-73-1 | <LOQ (1.01) U | <LOQ (4.44) U | <LOQ (1.66) U | <LOQ (0.507) U | <LOQ (2.43) U |
| | NFDHA | 151772-58-6 | <LOQ (1.01) U | <LOQ (4.44) U | <LOQ (1.66) U | <LOQ (0.507) U | <LOQ (2.43) U |
| FTCAs | 3:3 FTCA | 356-02-5 | <LOQ (2.52) U | <LOQ (11.1) U | <LOQ (4.14) U | <LOQ (1.27) U | <LOQ (6.07) U |
| | 5:3 FTCA | 914637-49-3 | <LOQ (2.52) U | <LOQ (11.1) U | <LOQ (4.14) U | <LOQ (1.27) U | <LOQ (6.07) U |
| | 7:3 FTCA | 812-70-4 | <LOQ (2.51) U | <LOQ (11.1) U | <LOQ (4.25) U | <LOQ (1.30) U | <LOQ (6.47) U |
| Other | ADONA | 919005-14-4 | <LOQ (1.90) U | <LOQ (8.42) U | <LOQ (3.21) U | <LOQ (0.984) U | <LOQ (4.89) U |
| | 9Cl-PF3ONS | 756426-58-1 | <LOQ (1.88) U | <LOQ (8.30) U | <LOQ (3.10) U | <LOQ (0.949) U | <LOQ (4.54) U |
| | N-MeFOSAA | 2355-31-9 | <LOQ (0.503) U | <LOQ (2.22) U | <LOQ (0.828) U | <LOQ (0.254) U | <LOQ (1.21) U |
| | 11Cl-PF3OUdS | 763051-92-9 | <LOQ (1.90) U | <LOQ (8.39) U | <LOQ (3.13) U | <LOQ (0.959) U | <LOQ (4.59) U |
| | N-EtFOSAA | 2991-50-6 | <LOQ (0.503) U | <LOQ (2.22) U | 2.31 | <LOQ (0.254) U | <LOQ (1.21) U |
| | PFEESA | 113507-82-7 | <LOQ (0.896) U | <LOQ (3.95) U | <LOQ (1.47) U | <LOQ (0.451) U | <LOQ (2.16) U |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Summary

| | Compound | CAS | SCL74_S4 ng/g | SCL74_Sand4 ng/g |
|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | <LOQ (7.77) U | <LOQ (1.07) U |
| | PFPeA | 2706-90-3 | <LOQ (3.84) U | <LOQ (0.530) U |
| | PFHxA | 307-24-4 | <LOQ (1.92) U | <LOQ (0.265) U |
| | PFHpA | 375-85-9 | <LOQ (1.92) U | <LOQ (0.265) U |
| | PFOA | 335-67-1 | <LOQ (1.92) U | <LOQ (0.265) U |
| | PFNA | 375-95-1 | <LOQ (1.92) U | <LOQ (0.265) U |
| | PFDA | 335-76-2 | <LOQ (1.94) U | <LOQ (0.267) U |
| | PFUnDA | 2058-94-8 | <LOQ (1.94) U | <LOQ (0.267) U |
| | PFDoA | 307-55-1 | <LOQ (1.94) U | <LOQ (0.267) U |
| | PFTrDA | 72629-94-8 | <LOQ (1.94) U | <LOQ (0.267) U |
| | PFTeDA | 376-06-7 | <LOQ (1.94) U | <LOQ (0.267) U |
| Sulfonates | PFBS | 375-73-5 | <LOQ (1.72) U | <LOQ (0.237) U |
| | PFPeS | 2706-91-4 | <LOQ (1.81) U | <LOQ (0.249) U |
| | PFHxS | 355-46-4 | <LOQ (1.75) U | <LOQ (0.242) U |
| | PFHpS | 375-92-8 | <LOQ (1.85) U | <LOQ (0.254) U |
| | PFOS | 1763-23-1 | 5.81 | <LOQ (0.248) U |
| | PFNS | 68259-12-1 | <LOQ (1.85) U | <LOQ (0.255) U |
| | PFDS | 335-77-3 | <LOQ (1.85) U | <LOQ (0.255) U |
| | 4:2 FTS | 757124-72-4 | <LOQ (7.20) U | <LOQ (0.993) U |
| | PFDoS | 79780-39-5 | <LOQ (1.86) U | <LOQ (0.257) U |
| | 6:2 FTS | 27619-97-2 | <LOQ (7.29) U | <LOQ (1.01) U |
| | 8:2 FTS | 39108-34-4 | <LOQ (7.46) U | <LOQ (1.02) U |
| Sulfonmides | PFOSA | 754-91-6 | <LOQ (1.94) U | <LOQ (0.267) U |
| | N-MeFOSA | 31506-32-8 | <LOQ (1.94) U | <LOQ (0.265) U |
| | N-EtFOSA | 4151-50-2 | <LOQ (1.94) U | <LOQ (0.265) U |
| | N-MeFOSE | 24448-09-7 | <LOQ (19.4) U | <LOQ (2.67) U |
| | N-EtFOSE | 1691-99-2 | <LOQ (19.4) U | <LOQ (2.67) U |
| PFECAs | HFPO-DA | 13252-13-6 | <LOQ (7.77) U | <LOQ (1.07) U |
| | PFMBA | 863090-89-5 | <LOQ (3.84) U | <LOQ (0.530) U |
| | PFMPA | 377-73-1 | <LOQ (3.84) U | <LOQ (0.530) U |
| | NFDHA | 151772-58-6 | <LOQ (3.84) U | <LOQ (0.530) U |
| FTCAs | 3:3 FTCA | 356-02-5 | <LOQ (9.59) U | <LOQ (1.32) U |
| | 5:3 FTCA | 914637-49-3 | <LOQ (9.59) U | <LOQ (1.32) U |
| | 7:3 FTCA | 812-70-4 | <LOQ (9.71) U | <LOQ (1.33) U |
| Other | ADONA | 919005-14-4 | <LOQ (7.34) U | <LOQ (1.01) U |
| | 9Cl-PF3ONS | 756426-58-1 | <LOQ (7.18) U | <LOQ (0.990) U |
| | N-MeFOSAA | 2355-31-9 | <LOQ (1.92) U | <LOQ (0.265) U |
| | 11Cl-PF3OUdS | 763051-92-9 | <LOQ (7.25) U | <LOQ (1.00) U |
| | N-EtFOSAA | 2991-50-6 | 5.68 | <LOQ (0.265) U |
| | PFEESA | 113507-82-7 | <LOQ (3.42) U | <LOQ (0.471) U |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W1 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-003-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:46 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724040 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724040 | <LOQ (33.3) | bb1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724040 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724040 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724040 | <LOQ (16.7) | MM1* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724040 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724040 | <LOQ (16.7) | bb2* | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724040 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724040 | <LOQ (15.7) | MM2* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724040 | 17.5 | MM1* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724040 | <LOQ (15.9) | MM1* | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724040 | 22.5 | MM1* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724040 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724040 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724040 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724040 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724040 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724040 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724040 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724040 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724040 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724040 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724040 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724040 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724040 | <LOQ (33.3) | MM3* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724040 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724040 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724040 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724040 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724040 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724040 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724040 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724040 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724040 | | bb | | | | 100 | 5-130% | 91.5% | |
| | M5PFPeA | | P290724040 | | bs | | | | 50.0 | 40-130% | 89.4% | |
| | M5PFHxA | | P290724040 | | bb | | | | 25.0 | 40-130% | 86.4% | |
| | M4PFHpA | | P290724040 | | bs | | | | 25.0 | 40-130% | 96.4% | |
| | M8PFOA | | P290724040 | | bs | | | | 25.0 | 40-130% | 89.3% | |
| | M9PFNA | | P290724040 | | bs | | | | 12.5 | 40-130% | 83.3% | |
| | M6PFDA | | P290724040 | | bb | | | | 12.5 | 40-130% | 75.1% | |
| | M7PFUdA | | P290724040 | | bb | | | | 12.5 | 30-130% | 56.4% | |
| | M2-PFDoA | | P290724040 | | bs | | | | 12.5 | 10-130% | 46.4% | |
| | 13C2-PFTeDA | | P290724040 | | bb | | | | 12.5 | 10-130% | 35.2% | |
| | M3PFBS | | P290724040 | | bb | | | | 23.3 | 40-135% | 90.9% | |
| | M3PFHxS | | P290724040 | | bb | | | | 23.7 | 40-130% | 83.8% | |
| | M8PFOS | | P290724040 | | bb | | | | 24.0 | 40-130% | 63.5% | |
| | M2-4:2 FTS | | P290724040 | | bb | | | | 46.9 | 40-200% | 85.7% | |
| | M2-6:2 FTS | | P290724040 | | bs | | | | 47.6 | 40-200% | 68.5% | |
| | M2-8:2 FTS | | P290724040 | | bs | | | | 48.0 | 40-300% | 60.7% | |
| | M8PFOSA | | P290724040 | | bb | | | | 25.0 | 40-130% | 73.9% | |
| | d3-N-MeFOSA | | P290724040 | | bb | | | | 25.0 | 10-130% | 47.7% | |
| | d5-N-EtFOSA | | P290724040 | | bb | | | | 25.0 | 10-130% | 44.5% | |
| | d3-N-MeFOSAA | | P290724040 | | bb | | | | 50.0 | 40-170% | 52.8% | |
| | d5-N-EtFOSAA | | P290724040 | | bs | | | | 50.0 | 25-135% | 48.8% | |
| | d7-N-MeFOSE | | P290724040 | | bb | | | | 250 | 10-130% | 37.7% | |
| | d9-N-EtFOSE | | P290724040 | | bb | | | | 250 | 10-130% | 44.6% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W1 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-003-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:46 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724040 | | bb | | | | 100 | 40-130% | 100.1% | |
| JS | M3PFBA | | P290724040 | | bb | | | | 50.0 | >30% | 127.8% | |
| | M2-PFHxA | | P290724040 | | bs | | | | 25.0 | >30% | 122.6% | |
| | M4-PFOA | | P290724040 | | bb | | | | 25.0 | >30% | 118.8% | |
| | M5-PFNA | | P290724040 | | bb | | | | 12.5 | >30% | 107.8% | |
| | M2-PFDA | | P290724040 | | bb | | | | 12.5 | >30% | 114.6% | |
| | 18O2PFHxS | | P290724040 | | bb | | | | 23.7 | >30% | 123.5% | |
| | M4-PFOS | | P290724040 | | bb | | | | 24.0 | >30% | 124.7% | |

Peak Flags
bb1*  bb;R JDG 7/30/24
bb2*  bb;C  JDG 7/30/24
MM1*  MM;C  JDG 7/30/24
MM2*  MM;N  JDG 7/30/24
MM3*  MM-;R JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_FIELD BLANK | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-004-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 254.29 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:09 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724041 | <LOQ (15.7) | bb | 14.2 | 15.7 | 3.70 | | | | U |
| | PFPeA | 2706-90-3 | P290724041 | <LOQ (7.87) | MM1* | 7.08 | 7.87 | 1.24 | | | | U |
| | PFHxA | 307-24-4 | P290724041 | <LOQ (3.93) | bb | 3.54 | 3.93 | 1.30 | | | | U |
| | PFHpA | 375-85-9 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.19 | | | | U |
| | PFOA | 335-67-1 | P290724041 | <LOQ (3.93) | MM2* | 3.54 | 3.93 | 0.963 | | | | U |
| | PFNA | 375-95-1 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 0.753 | | | | U |
| | PFDA | 335-76-2 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.79 | | | | U |
| | PFUnDA | 2058-94-8 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.33 | | | | U |
| | PFDoA | 307-55-1 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.33 | | | | U |
| | PFTrDA | 72629-94-8 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.35 | | | | U |
| | PFTeDA | 376-06-7 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.01 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724041 | <LOQ (3.49) | | 3.14 | 3.49 | 0.753 | | | | U |
| | PFPeS | 2706-91-4 | P290724041 | <LOQ (3.70) | | 3.33 | 3.70 | 1.01 | | | | U |
| | PFHxS | 355-46-4 | P290724041 | <LOQ (3.59) | | 3.23 | 3.59 | 1.52 | | | | U |
| | PFHpS | 375-92-8 | P290724041 | <LOQ (3.75) | | 3.37 | 3.75 | 1.30 | | | | U |
| | PFOS | 1763-23-1 | P290724041 | <LOQ (3.65) | MM2* | 3.28 | 3.65 | 1.38 | | | | U |
| | PFNS | 68259-12-1 | P290724041 | <LOQ (3.78) | | 3.40 | 3.78 | 0.920 | | | | U |
| | PFDS | 335-77-3 | P290724041 | <LOQ (3.79) | | 3.42 | 3.79 | 0.342 | | | | U |
| | PFDoS | 79780-39-5 | P290724041 | <LOQ (3.81) | | 3.43 | 3.81 | 0.946 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724041 | <LOQ (14.7) | | 13.3 | 14.7 | 6.17 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724041 | <LOQ (14.9) | | 13.4 | 14.9 | 3.72 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724041 | <LOQ (15.1) | | 13.6 | 15.1 | 9.46 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 0.372 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.08 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 2.69 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724041 | <LOQ (39.3) | | 35.4 | 39.3 | 6.23 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724041 | <LOQ (39.3) | | 35.4 | 39.3 | 5.29 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724041 | <LOQ (15.7) | | 14.2 | 15.7 | 4.56 | | | | U |
| | PFMBA | 863090-89-5 | P290724041 | <LOQ (7.87) | | 7.08 | 7.87 | 3.22 | | | | U |
| | PFMPA | 377-73-1 | P290724041 | <LOQ (7.87) | | 7.08 | 7.87 | 1.48 | | | | U |
| | NFDHA | 151772-58-6 | P290724041 | <LOQ (7.87) | | 7.08 | 7.87 | 3.97 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724041 | <LOQ (19.7) | | 17.7 | 19.7 | 2.34 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724041 | <LOQ (19.7) | | 17.7 | 19.7 | 5.74 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724041 | <LOQ (19.7) | | 17.7 | 19.7 | 3.97 | | | | U |
| Other | ADONA | 919005-14-4 | P290724041 | <LOQ (14.9) | | 13.4 | 14.9 | 3.30 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724041 | <LOQ (14.7) | | 13.2 | 14.7 | 4.19 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 2.01 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724041 | <LOQ (14.9) | | 13.4 | 14.9 | 3.34 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724041 | <LOQ (3.93) | | 3.54 | 3.93 | 1.90 | | | | U |
| | PFEESA | 113507-82-7 | P290724041 | <LOQ (7.00) | | 6.30 | 7.00 | 1.24 | | | | U |
| ES | M4PFBA | | P290724041 | | bb | | | | 100 | 5-130% | 94.7% | |
| | M5PFPeA | | P290724041 | | bs | | | | 50.0 | 40-130% | 93.4% | |
| | M5PFHxA | | P290724041 | | bb | | | | 25.0 | 40-130% | 96.2% | |
| | M4PFHpA | | P290724041 | | bb | | | | 25.0 | 40-130% | 95.1% | |
| | M8PFOA | | P290724041 | | bs | | | | 25.0 | 40-130% | 94.4% | |
| | M9PFNA | | P290724041 | | bs | | | | 12.5 | 40-130% | 93.1% | |
| | M6PFDA | | P290724041 | | bb | | | | 12.5 | 40-130% | 85.3% | |
| | M7PFUdA | | P290724041 | | bs | | | | 12.5 | 30-130% | 80.2% | |
| | M2-PFDoA | | P290724041 | | bs | | | | 12.5 | 10-130% | 83.2% | |
| | 13C2-PFTeDA | | P290724041 | | bb | | | | 12.5 | 10-130% | 76.1% | |
| | M3PFBS | | P290724041 | | bb | | | | 23.3 | 40-135% | 96.0% | |
| | M3PFHxS | | P290724041 | | bs | | | | 23.7 | 40-130% | 94.4% | |
| | M8PFOS | | P290724041 | | bs | | | | 24.0 | 40-130% | 89.3% | |
| | M2-4:2 FTS | | P290724041 | | bb | | | | 46.9 | 40-200% | 87.2% | |
| | M2-6:2 FTS | | P290724041 | | bb | | | | 47.6 | 40-200% | 80.8% | |
| | M2-8:2 FTS | | P290724041 | | bs | | | | 48.0 | 40-300% | 71.6% | |
| | M8PFOSA | | P290724041 | | bb | | | | 25.0 | 40-130% | 82.6% | |
| | d3-N-MeFOSA | | P290724041 | | bb | | | | 25.0 | 10-130% | 41.0% | |
| | d5-N-EtFOSA | | P290724041 | | bb | | | | 25.0 | 10-130% | 41.1% | |
| | d3-N-MeFOSAA | | P290724041 | | bs | | | | 50.0 | 40-170% | 77.8% | |
| | d5-N-EtFOSAA | | P290724041 | | bb | | | | 50.0 | 25-135% | 73.4% | |
| | d7-N-MeFOSE | | P290724041 | | bb | | | | 250 | 10-130% | 76.5% | |
| | d9-N-EtFOSE | | P290724041 | | bb | | | | 250 | 10-130% | 70.7% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_FIELD BLANK | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-004-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 254.29 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:09 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724041 | | bb | | | | 100 | 40-130% | 106.4% | |
| JS | M3PFBA | | P290724041 | | bb | | | | 50.0 | >30% | 147.5% | |
| | M2-PFHxA | | P290724041 | | bb | | | | 25.0 | >30% | 138.2% | |
| | M4-PFOA | | P290724041 | | bb | | | | 25.0 | >30% | 139.4% | |
| | M5-PFNA | | P290724041 | | bs | | | | 12.5 | >30% | 123.9% | |
| | M2-PFDA | | P290724041 | | bb | | | | 12.5 | >30% | 141.3% | |
| | 18O2PFHxS | | P290724041 | | bs | | | | 23.7 | >30% | 152.0% | |
| | M4-PFOS | | P290724041 | | bb | | | | 24.0 | >30% | 148.4% | |

Peak Flags  MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W2 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-008-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:32 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724042 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724042 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724042 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724042 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724042 | <LOQ (16.7) | MM2* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724042 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724042 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724042 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724042 | <LOQ (15.7) | MM4* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724042 | 16.7 | MM2* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724042 | <LOQ (15.9) | MM2* | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724042 | 22.0 | MM2* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724042 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724042 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724042 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724042 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724042 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724042 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724042 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724042 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724042 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724042 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724042 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724042 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724042 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724042 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724042 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724042 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724042 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724042 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724042 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724042 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724042 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724042 | | bb | | | | 100 | 5-130% | 96.0% | |
| | M5PFPeA | | P290724042 | | bs | | | | 50.0 | 40-130% | 93.4% | |
| | M5PFHxA | | P290724042 | | bb | | | | 25.0 | 40-130% | 92.9% | |
| | M4PFHpA | | P290724042 | | bs | | | | 25.0 | 40-130% | 100.8% | |
| | M8PFOA | | P290724042 | | bs | | | | 25.0 | 40-130% | 92.4% | |
| | M9PFNA | | P290724042 | | bs | | | | 12.5 | 40-130% | 96.6% | |
| | M6PFDA | | P290724042 | | bb | | | | 12.5 | 40-130% | 89.6% | |
| | M7PFUdA | | P290724042 | | bb | | | | 12.5 | 30-130% | 74.7% | |
| | M2-PFDoA | | P290724042 | | bb | | | | 12.5 | 10-130% | 67.9% | |
| | 13C2-PFTeDA | | P290724042 | | bb | | | | 12.5 | 10-130% | 49.1% | |
| | M3PFBS | | P290724042 | | bs | | | | 23.3 | 40-135% | 95.3% | |
| | M3PFHxS | | P290724042 | | bs | | | | 23.7 | 40-130% | 100.1% | |
| | M8PFOS | | P290724042 | | bb | | | | 24.0 | 40-130% | 87.4% | |
| | M2-4:2 FTS | | P290724042 | | bb | | | | 46.9 | 40-200% | 93.9% | |
| | M2-6:2 FTS | | P290724042 | | bb | | | | 47.6 | 40-200% | 80.8% | |
| | M2-8:2 FTS | | P290724042 | | bb | | | | 48.0 | 40-300% | 68.7% | |
| | M8PFOSA | | P290724042 | | bb | | | | 25.0 | 40-130% | 83.8% | |
| | d3-N-MeFOSA | | P290724042 | | bb | | | | 25.0 | 10-130% | 64.3% | |
| | d5-N-EtFOSA | | P290724042 | | bb | | | | 25.0 | 10-130% | 69.2% | |
| | d3-N-MeFOSAA | | P290724042 | | bs | | | | 50.0 | 40-170% | 74.2% | |
| | d5-N-EtFOSAA | | P290724042 | | bb | | | | 50.0 | 25-135% | 72.1% | |
| | d7-N-MeFOSE | | P290724042 | | bb | | | | 250 | 10-130% | 55.3% | |
| | d9-N-EtFOSE | | P290724042 | | bb | | | | 250 | 10-130% | 65.1% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W2 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-008-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:32 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724042 | | bs | | | | 100 | 40-130% | 112.0% | |
| JS | M3PFBA | | P290724042 | | bb | | | | 50.0 | >30% | 127.4% | |
| | M2-PFHxA | | P290724042 | | bb | | | | 25.0 | >30% | 119.8% | |
| | M4-PFOA | | P290724042 | | bb | | | | 25.0 | >30% | 117.2% | |
| | M5-PFNA | | P290724042 | | bb | | | | 12.5 | >30% | 100.4% | |
| | M2-PFDA | | P290724042 | | bb | | | | 12.5 | >30% | 113.5% | |
| | 18O2PFHxS | | P290724042 | | bb | | | | 23.7 | >30% | 123.1% | |
| | M4-PFOS | | P290724042 | | bs | | | | 24.0 | >30% | 120.1% | |

Peak Flags
MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24
MM3*  MM-;R  JDG 7/30/24
MM4*  MM;N  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W3 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-012-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:55 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724043 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724043 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724043 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724043 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724043 | <LOQ (16.7) | MM2* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724043 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724043 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724043 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724043 | <LOQ (15.7) | MM4* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724043 | 17.8 | MM2* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724043 | <LOQ (15.9) | MM2* | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724043 | 19.5 | MM2* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724043 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724043 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724043 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724043 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724043 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724043 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724043 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724043 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724043 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724043 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724043 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724043 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724043 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724043 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724043 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724043 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724043 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724043 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724043 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724043 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724043 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724043 | | bb | | | | 100 | 5-130% | 95.5% | |
| | M5PFPeA | | P290724043 | | bs | | | | 50.0 | 40-130% | 92.7% | |
| | M5PFHxA | | P290724043 | | bs | | | | 25.0 | 40-130% | 96.1% | |
| | M4PFHpA | | P290724043 | | bs | | | | 25.0 | 40-130% | 98.8% | |
| | M8PFOA | | P290724043 | | bb | | | | 25.0 | 40-130% | 90.8% | |
| | M9PFNA | | P290724043 | | bb | | | | 12.5 | 40-130% | 94.3% | |
| | M6PFDA | | P290724043 | | bb | | | | 12.5 | 40-130% | 87.0% | |
| | M7PFUdA | | P290724043 | | bs | | | | 12.5 | 30-130% | 78.8% | |
| | M2-PFDoA | | P290724043 | | bs | | | | 12.5 | 10-130% | 72.0% | |
| | 13C2-PFTeDA | | P290724043 | | bb | | | | 12.5 | 10-130% | 54.1% | |
| | M3PFBS | | P290724043 | | bb | | | | 23.3 | 40-135% | 95.9% | |
| | M3PFHxS | | P290724043 | | bb | | | | 23.7 | 40-130% | 93.9% | |
| | M8PFOS | | P290724043 | | bb | | | | 24.0 | 40-130% | 86.0% | |
| | M2-4:2 FTS | | P290724043 | | bb | | | | 46.9 | 40-200% | 96.6% | |
| | M2-6:2 FTS | | P290724043 | | bb | | | | 47.6 | 40-200% | 75.1% | |
| | M2-8:2 FTS | | P290724043 | | bb | | | | 48.0 | 40-300% | 68.0% | |
| | M8PFOSA | | P290724043 | | bs | | | | 25.0 | 40-130% | 80.6% | |
| | d3-N-MeFOSA | | P290724043 | | bb | | | | 25.0 | 10-130% | 69.6% | |
| | d5-N-EtFOSA | | P290724043 | | bb | | | | 25.0 | 10-130% | 68.5% | |
| | d3-N-MeFOSAA | | P290724043 | | bb | | | | 50.0 | 40-170% | 68.9% | |
| | d5-N-EtFOSAA | | P290724043 | | bb | | | | 50.0 | 25-135% | 70.2% | |
| | d7-N-MeFOSE | | P290724043 | | bb | | | | 250 | 10-130% | 59.1% | |
| | d9-N-EtFOSE | | P290724043 | | bb | | | | 250 | 10-130% | 68.8% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W3 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-012-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 02:55 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724043 | | bb | | | | 100 | 40-130% | 113.4% | |
| JS | M3PFBA | | P290724043 | | bb | | | | 50.0 | >30% | 126.1% | |
| | M2-PFHxA | | P290724043 | | bs | | | | 25.0 | >30% | 119.6% | |
| | M4-PFOA | | P290724043 | | bb | | | | 25.0 | >30% | 116.7% | |
| | M5-PFNA | | P290724043 | | bb | | | | 12.5 | >30% | 98.2% | |
| | M2-PFDA | | P290724043 | | bb | | | | 12.5 | >30% | 109.2% | |
| | 18O2PFHxS | | P290724043 | | bb | | | | 23.7 | >30% | 124.9% | |
| | M4-PFOS | | P290724043 | | bb | | | | 24.0 | >30% | 123.9% | |

Peak Flags
MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24
MM3*  MM-;R  JDG 7/30/24
MM4*  MM;N  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_WSURF | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-016-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:40 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 03:18 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724044 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724044 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724044 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724044 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724044 | <LOQ (16.7) | MM2* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724044 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724044 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724044 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724044 | <LOQ (15.7) | MM4* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724044 | 19.0 | MM2* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724044 | <LOQ (15.9) | | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724044 | 22.1 | MM2* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724044 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724044 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724044 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724044 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724044 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724044 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724044 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724044 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724044 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724044 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724044 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724044 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724044 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724044 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724044 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724044 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724044 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724044 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724044 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724044 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724044 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724044 | | bb | | | | 100 | 5-130% | 96.2% | |
| | M5PFPeA | | P290724044 | | bs | | | | 50.0 | 40-130% | 93.2% | |
| | M5PFHxA | | P290724044 | | bb | | | | 25.0 | 40-130% | 93.0% | |
| | M4PFHpA | | P290724044 | | bb | | | | 25.0 | 40-130% | 98.8% | |
| | M8PFOA | | P290724044 | | bs | | | | 25.0 | 40-130% | 93.0% | |
| | M9PFNA | | P290724044 | | bb | | | | 12.5 | 40-130% | 92.9% | |
| | M6PFDA | | P290724044 | | bb | | | | 12.5 | 40-130% | 88.9% | |
| | M7PFUdA | | P290724044 | | bb | | | | 12.5 | 30-130% | 78.1% | |
| | M2-PFDoA | | P290724044 | | bs | | | | 12.5 | 10-130% | 68.7% | |
| | 13C2-PFTeDA | | P290724044 | | bb | | | | 12.5 | 10-130% | 51.2% | |
| | M3PFBS | | P290724044 | | bs | | | | 23.3 | 40-135% | 90.9% | |
| | M3PFHxS | | P290724044 | | bb | | | | 23.7 | 40-130% | 92.7% | |
| | M8PFOS | | P290724044 | | bb | | | | 24.0 | 40-130% | 89.9% | |
| | M2-4:2 FTS | | P290724044 | | bb | | | | 46.9 | 40-200% | 93.8% | |
| | M2-6:2 FTS | | P290724044 | | bb | | | | 47.6 | 40-200% | 79.4% | |
| | M2-8:2 FTS | | P290724044 | | bb | | | | 48.0 | 40-300% | 70.1% | |
| | M8PFOSA | | P290724044 | | bb | | | | 25.0 | 40-130% | 86.6% | |
| | d3-N-MeFOSA | | P290724044 | | bb | | | | 25.0 | 10-130% | 66.9% | |
| | d5-N-EtFOSA | | P290724044 | | bb | | | | 25.0 | 10-130% | 67.1% | |
| | d3-N-MeFOSAA | | P290724044 | | bb | | | | 50.0 | 40-170% | 75.2% | |
| | d5-N-EtFOSAA | | P290724044 | | bb | | | | 50.0 | 25-135% | 70.7% | |
| | d7-N-MeFOSE | | P290724044 | | bb | | | | 250 | 10-130% | 52.7% | |
| | d9-N-EtFOSE | | P290724044 | | bb | | | | 250 | 10-130% | 67.2% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_WSURF | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-016-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:40 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 03:18 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724044 | | bb | | | | 100 | 40-130% | 115.3% | |
| JS | M3PFBA | | P290724044 | | bb | | | | 50.0 | >30% | 119.5% | |
| | M2-PFHxA | | P290724044 | | bs | | | | 25.0 | >30% | 116.0% | |
| | M4-PFOA | | P290724044 | | bb | | | | 25.0 | >30% | 109.2% | |
| | M5-PFNA | | P290724044 | | bb | | | | 12.5 | >30% | 93.5% | |
| | M2-PFDA | | P290724044 | | bb | | | | 12.5 | >30% | 103.6% | |
| | 18O2PFHxS | | P290724044 | | bb | | | | 23.7 | >30% | 116.3% | |
| | M4-PFOS | | P290724044 | | bb | | | | 24.0 | >30% | 112.8% | |

Peak Flags
MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24
MM3*  MM-;C  JDG 7/30/24
MM4*  MM;N  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W4 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-017-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 03:40 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724045 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724045 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724045 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724045 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724045 | <LOQ (16.7) | MM2* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724045 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724045 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724045 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724045 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724045 | <LOQ (15.7) | MM4* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724045 | 19.1 | MM2* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724045 | <LOQ (15.9) | | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724045 | 21.2 | MM2* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724045 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724045 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724045 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724045 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724045 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724045 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724045 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724045 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724045 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724045 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724045 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724045 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724045 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724045 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724045 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724045 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724045 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724045 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724045 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724045 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724045 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724045 | | bb | | | | 100 | 5-130% | 96.3% | |
| | M5PFPeA | | P290724045 | | bs | | | | 50.0 | 40-130% | 93.5% | |
| | M5PFHxA | | P290724045 | | bb | | | | 25.0 | 40-130% | 98.8% | |
| | M4PFHpA | | P290724045 | | bs | | | | 25.0 | 40-130% | 97.3% | |
| | M8PFOA | | P290724045 | | bs | | | | 25.0 | 40-130% | 93.2% | |
| | M9PFNA | | P290724045 | | bb | | | | 12.5 | 40-130% | 89.4% | |
| | M6PFDA | | P290724045 | | bb | | | | 12.5 | 40-130% | 80.9% | |
| | M7PFUdA | | P290724045 | | bs | | | | 12.5 | 30-130% | 67.4% | |
| | M2-PFDoA | | P290724045 | | bs | | | | 12.5 | 10-130% | 61.2% | |
| | 13C2-PFTeDA | | P290724045 | | bb | | | | 12.5 | 10-130% | 49.3% | |
| | M3PFBS | | P290724045 | | bb | | | | 23.3 | 40-135% | 92.0% | |
| | M3PFHxS | | P290724045 | | bb | | | | 23.7 | 40-130% | 93.5% | |
| | M8PFOS | | P290724045 | | bb | | | | 24.0 | 40-130% | 84.8% | |
| | M2-4:2 FTS | | P290724045 | | bb | | | | 46.9 | 40-200% | 91.1% | |
| | M2-6:2 FTS | | P290724045 | | bb | | | | 47.6 | 40-200% | 77.4% | |
| | M2-8:2 FTS | | P290724045 | | bb | | | | 48.0 | 40-300% | 65.8% | |
| | M8PFOSA | | P290724045 | | bs | | | | 25.0 | 40-130% | 79.2% | |
| | d3-N-MeFOSA | | P290724045 | | bb | | | | 25.0 | 10-130% | 62.9% | |
| | d5-N-EtFOSA | | P290724045 | | bb | | | | 25.0 | 10-130% | 64.3% | |
| | d3-N-MeFOSAA | | P290724045 | | bs | | | | 50.0 | 40-170% | 64.6% | |
| | d5-N-EtFOSAA | | P290724045 | | bs | | | | 50.0 | 25-135% | 65.0% | |
| | d7-N-MeFOSE | | P290724045 | | bb | | | | 250 | 10-130% | 47.6% | |
| | d9-N-EtFOSE | | P290724045 | | bb | | | | 250 | 10-130% | 60.8% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_W4 | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-017-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 12:48 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 03:40 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724045 | | bs | | | | 100 | 40-130% | 111.6% | |
| JS | M3PFBA | | P290724045 | | bb | | | | 50.0 | >30% | 127.6% | |
| | M2-PFHxA | | P290724045 | | bb | | | | 25.0 | >30% | 119.7% | |
| | M4-PFOA | | P290724045 | | bs | | | | 25.0 | >30% | 120.1% | |
| | M5-PFNA | | P290724045 | | bb | | | | 12.5 | >30% | 101.8% | |
| | M2-PFDA | | P290724045 | | bb | | | | 12.5 | >30% | 113.4% | |
| | 18O2PFHxS | | P290724045 | | bs | | | | 23.7 | >30% | 130.7% | |
| | M4-PFOS | | P290724045 | | bb | | | | 24.0 | >30% | 125.6% | |

Peak Flags
MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24
MM3*  MM-;R  JDG 7/30/24
MM4*  MM;N  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_WSkim | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-018-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 04:03 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724046 | <LOQ (66.7) | bb | 60.0 | 66.7 | 15.7 | | | | U |
| | PFPeA | 2706-90-3 | P290724046 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 5.24 | | | | U |
| | PFHxA | 307-24-4 | P290724046 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.50 | | | | U |
| | PFHpA | 375-85-9 | P290724046 | <LOQ (16.7) | bb | 15.0 | 16.7 | 5.02 | | | | U |
| | PFOA | 335-67-1 | P290724046 | <LOQ (16.7) | MM2* | 15.0 | 16.7 | 4.08 | | | | U |
| | PFNA | 375-95-1 | P290724046 | <LOQ (16.7) | bb | 15.0 | 16.7 | 3.19 | | | | U |
| | PFDA | 335-76-2 | P290724046 | <LOQ (16.7) | MM3* | 15.0 | 16.7 | 7.59 | | | | U |
| | PFUnDA | 2058-94-8 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFDoA | 307-55-1 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 5.63 | | | | U |
| | PFTrDA | 72629-94-8 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 5.73 | | | | U |
| | PFTeDA | 376-06-7 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 4.29 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724046 | <LOQ (14.8) | bb | 13.3 | 14.8 | 3.19 | | | | U |
| | PFPeS | 2706-91-4 | P290724046 | <LOQ (15.7) | MM4* | 14.1 | 15.7 | 4.27 | | | | U |
| | PFHxS | 355-46-4 | P290724046 | 20.4 | MM2* | 13.7 | 15.2 | 6.44 | | | | |
| | PFHpS | 375-92-8 | P290724046 | <LOQ (15.9) | MM2* | 14.3 | 15.9 | 5.50 | | | | U |
| | PFOS | 1763-23-1 | P290724046 | 24.9 | MM2* | 13.9 | 15.5 | 5.87 | | | | |
| | PFNS | 68259-12-1 | P290724046 | <LOQ (16.0) | | 14.4 | 16.0 | 3.90 | | | | U |
| | PFDS | 335-77-3 | P290724046 | <LOQ (16.1) | | 14.5 | 16.1 | 1.45 | | | | U |
| | PFDoS | 79780-39-5 | P290724046 | <LOQ (16.2) | | 14.6 | 16.2 | 4.01 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724046 | <LOQ (62.5) | | 56.2 | 62.5 | 26.2 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724046 | <LOQ (63.3) | | 57.0 | 63.3 | 15.8 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724046 | <LOQ (64.0) | | 57.6 | 64.0 | 40.1 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724046 | <LOQ (16.7) | bb | 15.0 | 16.7 | 1.58 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 4.58 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 11.4 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724046 | <LOQ (167) | | 150 | 167 | 26.4 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724046 | <LOQ (167) | | 150 | 167 | 22.4 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724046 | <LOQ (66.7) | | 60.0 | 66.7 | 19.3 | | | | U |
| | PFMBA | 863090-89-5 | P290724046 | <LOQ (33.3) | | 30.0 | 33.3 | 13.6 | | | | U |
| | PFMPA | 377-73-1 | P290724046 | <LOQ (33.3) | | 30.0 | 33.3 | 6.26 | | | | U |
| | NFDHA | 151772-58-6 | P290724046 | <LOQ (33.3) | MM1* | 30.0 | 33.3 | 16.8 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724046 | <LOQ (83.3) | | 75.0 | 83.3 | 9.92 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724046 | <LOQ (83.3) | | 75.0 | 83.3 | 24.3 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724046 | <LOQ (83.3) | | 75.0 | 83.3 | 16.8 | | | | U |
| Other | ADONA | 919005-14-4 | P290724046 | <LOQ (63.0) | | 56.7 | 63.0 | 14.0 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724046 | <LOQ (62.3) | | 56.1 | 62.3 | 17.8 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 8.50 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724046 | <LOQ (63.0) | | 56.7 | 63.0 | 14.2 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724046 | <LOQ (16.7) | | 15.0 | 16.7 | 8.07 | | | | U |
| | PFEESA | 113507-82-7 | P290724046 | <LOQ (29.7) | | 26.7 | 29.7 | 5.27 | | | | U |
| ES | M4PFBA | | P290724046 | | bb | | | | 100 | 5-130% | 94.0% | |
| | M5PFPeA | | P290724046 | | bs | | | | 50.0 | 40-130% | 91.5% | |
| | M5PFHxA | | P290724046 | | bb | | | | 25.0 | 40-130% | 89.3% | |
| | M4PFHpA | | P290724046 | | bs | | | | 25.0 | 40-130% | 97.3% | |
| | M8PFOA | | P290724046 | | bb | | | | 25.0 | 40-130% | 89.3% | |
| | M9PFNA | | P290724046 | | bb | | | | 12.5 | 40-130% | 90.2% | |
| | M6PFDA | | P290724046 | | bb | | | | 12.5 | 40-130% | 86.0% | |
| | M7PFUdA | | P290724046 | | bb | | | | 12.5 | 30-130% | 76.3% | |
| | M2-PFDoA | | P290724046 | | bs | | | | 12.5 | 10-130% | 68.3% | |
| | 13C2-PFTeDA | | P290724046 | | bb | | | | 12.5 | 10-130% | 53.0% | |
| | M3PFBS | | P290724046 | | bb | | | | 23.3 | 40-135% | 89.0% | |
| | M3PFHxS | | P290724046 | | bb | | | | 23.7 | 40-130% | 89.3% | |
| | M8PFOS | | P290724046 | | bb | | | | 24.0 | 40-130% | 89.1% | |
| | M2-4:2 FTS | | P290724046 | | bb | | | | 46.9 | 40-200% | 94.1% | |
| | M2-6:2 FTS | | P290724046 | | bb | | | | 47.6 | 40-200% | 78.1% | |
| | M2-8:2 FTS | | P290724046 | | bb | | | | 48.0 | 40-300% | 65.1% | |
| | M8PFOSA | | P290724046 | | bb | | | | 25.0 | 40-130% | 81.4% | |
| | d3-N-MeFOSA | | P290724046 | | bb | | | | 25.0 | 10-130% | 65.8% | |
| | d5-N-EtFOSA | | P290724046 | | bb | | | | 25.0 | 10-130% | 64.7% | |
| | d3-N-MeFOSAA | | P290724046 | | bb | | | | 50.0 | 40-170% | 68.8% | |
| | d5-N-EtFOSAA | | P290724046 | | bb | | | | 50.0 | 25-135% | 68.3% | |
| | d7-N-MeFOSE | | P290724046 | | bb | | | | 250 | 10-130% | 54.3% | |
| | d9-N-EtFOSE | | P290724046 | | bb | | | | 250 | 10-130% | 64.6% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | SCL74_WSkim | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-833-018-2 | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin |
| Received Date | 2024-07-18 | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 04:03 | Split Factor | N/A |
| SampleType | Sample | Method Code | Eu-062 |
| Bottle ID | A | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724046 | | bb | | | | 100 | 40-130% | 111.2% | |
| JS | M3PFBA | | P290724046 | | bb | | | | 50.0 | >30% | 118.4% | |
| | M2-PFHxA | | P290724046 | | bs | | | | 25.0 | >30% | 114.2% | |
| | M4-PFOA | | P290724046 | | bb | | | | 25.0 | >30% | 110.1% | |
| | M5-PFNA | | P290724046 | | bb | | | | 12.5 | >30% | 93.8% | |
| | M2-PFDA | | P290724046 | | bb | | | | 12.5 | >30% | 104.1% | |
| | 18O2PFHxS | | P290724046 | | bb | | | | 23.7 | >30% | 121.3% | |
| | M4-PFOS | | P290724046 | | bb | | | | 24.0 | >30% | 116.4% | |

Peak Flags
MM1*  MM-;R JDG 7/30/24
MM2*  MM;C  JDG 7/30/24
MM3*  MM-;R  JDG 7/30/24
MM4*  MM;N  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-005-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.49 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.39 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.16 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.53 |
| AnalysisDate | 2024-08-02 02:51 | Split Factor | N/A | Dry Weight (g) | 2.39 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 25.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.33 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824034 | <LOQ (3.00) | MM1* | 2.70 | 3.00 | 0.704 | | | | U |
| | PFPeA | 2706-90-3 | P010824034 | <LOQ (1.50) | MM1* | 1.35 | 1.50 | 0.236 | | | | U |
| | PFHxA | 307-24-4 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.247 | | | | U |
| | PFHpA | 375-85-9 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.226 | | | | U |
| | PFOA | 335-67-1 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.184 | | | | U |
| | PFNA | 375-95-1 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.144 | | | | U |
| | PFDA | 335-76-2 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.341 | | | | U |
| | PFUnDA | 2058-94-8 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.253 | | | | U |
| | PFDoA | 307-55-1 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.253 | | | | U |
| | PFTrDA | 72629-94-8 | P010824034 | <LOQ (0.749) | MM1* | 0.674 | 0.749 | 0.258 | | | | U |
| | PFTeDA | 376-06-7 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.193 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824034 | <LOQ (0.665) | | 0.598 | 0.665 | 0.144 | | | | U |
| | PFPeS | 2706-91-4 | P010824034 | <LOQ (0.705) | | 0.635 | 0.705 | 0.192 | | | | U |
| | PFHxS | 355-46-4 | P010824034 | <LOQ (0.685) | MM1* | 0.616 | 0.685 | 0.290 | | | | U |
| | PFHpS | 375-92-8 | P010824034 | <LOQ (0.714) | | 0.643 | 0.714 | 0.247 | | | | U |
| | PFOS | 1763-23-1 | P010824034 | 1.22 | MM2* | 0.626 | 0.695 | 0.264 | | | | |
| | PFNS | 68259-12-1 | P010824034 | <LOQ (0.721) | | 0.649 | 0.721 | 0.175 | | | | U |
| | PFDS | 335-77-3 | P010824034 | <LOQ (0.723) | | 0.651 | 0.723 | 0.0652 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824034 | <LOQ (2.81) | | 2.53 | 2.81 | 1.18 | | | | U |
| | PFDoS | 79780-39-5 | P010824034 | <LOQ (0.727) | | 0.654 | 0.727 | 0.180 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824034 | <LOQ (2.85) | | 2.56 | 2.85 | 0.708 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824034 | <LOQ (2.88) | | 2.59 | 2.88 | 1.80 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.0708 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.206 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.513 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824034 | <LOQ (7.49) | | 6.74 | 7.49 | 1.19 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824034 | <LOQ (7.49) | | 6.74 | 7.49 | 1.01 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824034 | <LOQ (3.00) | | 2.70 | 3.00 | 0.869 | | | | U |
| | PFMBA | 863090-89-5 | P010824034 | <LOQ (1.50) | | 1.35 | 1.50 | 0.613 | | | | U |
| | PFMPA | 377-73-1 | P010824034 | <LOQ (1.50) | | 1.35 | 1.50 | 0.281 | | | | U |
| | NFDHA | 151772-58-6 | P010824034 | <LOQ (1.50) | | 1.35 | 1.50 | 0.757 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824034 | <LOQ (3.75) | | 3.37 | 3.75 | 0.446 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824034 | <LOQ (3.75) | | 3.37 | 3.75 | 1.09 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824034 | <LOQ (3.75) | | 3.37 | 3.75 | 0.757 | | | | U |
| Other | ADONA | 919005-14-4 | P010824034 | <LOQ (2.83) | | 2.55 | 2.83 | 0.630 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824034 | <LOQ (2.80) | | 2.52 | 2.80 | 0.798 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.382 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824034 | <LOQ (2.83) | | 2.55 | 2.83 | 0.637 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824034 | <LOQ (0.749) | | 0.674 | 0.749 | 0.363 | | | | U |
| | PFEESA | 113507-82-7 | P010824034 | <LOQ (1.33) | | 1.20 | 1.33 | 0.237 | | | | U |
| ES | M4PFBA | | P010824034 | | bb | | | | 100 | 8-130% | 92.5% | |
| | M5PFPeA | | P010824034 | | bs | | | | 50.0 | 35-130% | 94.9% | |
| | M5PFHxA | | P010824034 | | bb | | | | 25.0 | 40-130% | 92.4% | |
| | M4PFHpA | | P010824034 | | bs | | | | 25.0 | 40-130% | 92.6% | |
| | M8PFOA | | P010824034 | | bs | | | | 25.0 | 40-130% | 88.5% | |
| | M9PFNA | | P010824034 | | bb | | | | 12.5 | 40-130% | 93.4% | |
| | M6PFDA | | P010824034 | | bb | | | | 12.5 | 40-130% | 87.7% | |
| | M7PFUdA | | P010824034 | | bs | | | | 12.5 | 40-130% | 84.3% | |
| | M2-PFDoA | | P010824034 | | bs | | | | 12.5 | 40-130% | 90.9% | |
| | 13C2-PFTeDA | | P010824034 | | bb | | | | 12.5 | 20-130% | 82.9% | |
| | M3PFBS | | P010824034 | | bb | | | | 23.3 | 40-135% | 97.8% | |
| | M3PFHxS | | P010824034 | | bb | | | | 23.7 | 40-130% | 89.7% | |
| | M8PFOS | | P010824034 | | bb | | | | 24.0 | 40-130% | 82.8% | |
| | M2-4:2 FTS | | P010824034 | | bb | | | | 46.9 | 40-165% | 80.6% | |
| | M2-6:2 FTS | | P010824034 | | bb | | | | 47.6 | 40-215% | 74.2% | |
| | M2-8:2 FTS | | P010824034 | | bb | | | | 48.0 | 40-275% | 86.7% | |
| | M8PFOSA | | P010824034 | | bb | | | | 25.0 | 40-130% | 72.2% | |
| | d3-N-MeFOSA | | P010824034 | | bb | | | | 25.0 | 10-130% | 48.5% | |
| | d5-N-EtFOSA | | P010824034 | | bb | | | | 25.0 | 10-130% | 45.8% | |
| | d3-N-MeFOSAA | | P010824034 | | bb | | | | 50.0 | 40-135% | 91.2% | |
| | d5-N-EtFOSAA | | P010824034 | | bb | | | | 50.0 | 40-150% | 98.2% | |
| | d7-N-MeFOSE | | P010824034 | | bb | | | | 250 | 20-130% | 60.4% | |
| | d9-N-EtFOSE | | P010824034 | | bb | | | | 250 | 15-130% | 55.7% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-005-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.49 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.39 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.16 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.53 |
| AnalysisDate | 2024-08-02 02:51 | Split Factor | N/A | Dry Weight (g) | 2.39 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 25.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.33 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824034 | | bs | | | | 100 | 40-130% | 113.0% | |
| JS | M3PFBA | | P010824034 | | bb | | | | 50.0 | >30% | 99.9% | |
| | M2-PFHxA | | P010824034 | | bs | | | | 25.0 | >30% | 101.3% | |
| | M4-PFOA | | P010824034 | | bs | | | | 25.0 | >30% | 103.8% | |
| | M5-PFNA | | P010824034 | | bb | | | | 12.5 | >30% | 85.7% | |
| | M2-PFDA | | P010824034 | | bb | | | | 12.5 | >30% | 99.9% | |
| | 18O2PFHxS | | P010824034 | | bb | | | | 23.7 | >30% | 116.1% | |
| | M4-PFOS | | P010824034 | | bb | | | | 24.0 | >30% | 113.7% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-005-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.49 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.39 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.08 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.53 |
| AnalysisDate | 2024-08-07 20:39 | Split Factor | N/A | Dry Weight (g) | 2.39 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 25.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.31 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824017 | <LOQ (3.04) | MM1* | 2.74 | 3.04 | 0.716 | | | | U |
| | PFDA | 335-76-2 | P070824017 | <LOQ (0.761) | MM1* | 0.685 | 0.761 | 0.347 | | | | U |
| | PFUnDA | 2058-94-8 | P070824017 | <LOQ (0.761) | MM1* | 0.685 | 0.761 | 0.257 | | | | U |
| | PFDoA | 307-55-1 | P070824017 | <LOQ (0.761) | MM1* | 0.685 | 0.761 | 0.257 | | | | U |
| | PFTrDA | 72629-94-8 | P070824017 | <LOQ (0.761) | MM1* | 0.685 | 0.761 | 0.262 | | | | U |
| | PFTeDA | 376-06-7 | P070824017 | <LOQ (0.761) | | 0.685 | 0.761 | 0.196 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824017 | <LOQ (0.675) | | 0.608 | 0.675 | 0.146 | | | | U |
| | PFHpS | 375-92-8 | P070824017 | <LOQ (0.725) | | 0.653 | 0.725 | 0.251 | | | | U |
| | PFOS | 1763-23-1 | P070824017 | 1.10 | MM2* | 0.636 | 0.706 | 0.268 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824017 | <LOQ (2.92) | | 2.63 | 2.92 | 1.83 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824017 | <LOQ (0.761) | | 0.685 | 0.761 | 0.0719 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824017 | <LOQ (7.61) | | 6.85 | 7.61 | 1.21 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824017 | <LOQ (7.61) | | 6.85 | 7.61 | 1.02 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824017 | <LOQ (3.04) | | 2.74 | 3.04 | 0.883 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824017 | <LOQ (3.81) | | 3.43 | 3.81 | 0.769 | | | | U |
| Other | ADONA | 919005-14-4 | P070824017 | <LOQ (2.88) | | 2.59 | 2.88 | 0.639 | | | | U |
| ES | M4PFBA | | P070824017 | | bb | | | | 100 | 8-130% | 79.6% | |
| | M5PFHxA | | P070824017 | | bb | | | | 25.0 | 40-130% | 74.5% | |
| | M6PFDA | | P070824017 | | bb | | | | 12.5 | 40-130% | 80.2% | |
| | M7PFUdA | | P070824017 | | bb | | | | 12.5 | 40-130% | 71.4% | |
| | M2-PFDoA | | P070824017 | | bs | | | | 12.5 | 40-130% | 79.6% | |
| | 13C2-PFTeDA | | P070824017 | | bb | | | | 12.5 | 20-130% | 70.0% | |
| | M3PFBS | | P070824017 | | bb | | | | 23.3 | 40-135% | 88.4% | |
| | M8PFOS | | P070824017 | | bs | | | | 24.0 | 40-130% | 72.9% | |
| | M2-8:2 FTS | | P070824017 | | bb | | | | 48.0 | 40-275% | 84.4% | |
| | M8PFOSA | | P070824017 | | bb | | | | 25.0 | 40-130% | 71.1% | |
| | d7-N-MeFOSE | | P070824017 | | bb | | | | 250 | 20-130% | 73.1% | |
| | d9-N-EtFOSE | | P070824017 | | bb | | | | 250 | 15-130% | 69.8% | |
| | M3HFPO-DA | | P070824017 | | bb | | | | 100 | 40-130% | 100.0% | |
| JS | M3PFBA | | P070824017 | | bb | | | | 50.0 | >30% | 98.4% | |
| | M2-PFHxA | | P070824017 | | bs | | | | 25.0 | >30% | 99.4% | |
| | M2-PFDA | | P070824017 | | bb | | | | 12.5 | >30% | 93.9% | |
| | M4-PFOS | | P070824017 | | bb | | | | 24.0 | >30% | 113.9% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-006-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.65 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.07 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.61 |
| AnalysisDate | 2024-08-02 03:14 | Split Factor | N/A | Dry Weight (g) | 2.65 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 30.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.53 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824035 | <LOQ (2.62) | MM1* | 2.36 | 2.62 | 0.615 | | | | U |
| | PFPeA | 2706-90-3 | P010824035 | <LOQ (1.31) | MM1* | 1.18 | 1.31 | 0.206 | | | | U |
| | PFHxA | 307-24-4 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.216 | | | | U |
| | PFHpA | 375-85-9 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.197 | | | | U |
| | PFOA | 335-67-1 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.160 | | | | U |
| | PFNA | 375-95-1 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.125 | | | | U |
| | PFDA | 335-76-2 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.298 | | | | U |
| | PFUnDA | 2058-94-8 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.221 | | | | U |
| | PFDoA | 307-55-1 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.221 | | | | U |
| | PFTrDA | 72629-94-8 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.225 | | | | U |
| | PFTeDA | 376-06-7 | P010824035 | <LOQ (0.655) | | 0.589 | 0.655 | 0.169 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824035 | <LOQ (0.581) | MM1* | 0.523 | 0.581 | 0.125 | | | | U |
| | PFPeS | 2706-91-4 | P010824035 | <LOQ (0.616) | | 0.554 | 0.616 | 0.168 | | | | U |
| | PFHxS | 355-46-4 | P010824035 | <LOQ (0.598) | MM1* | 0.539 | 0.598 | 0.253 | | | | U |
| | PFHpS | 375-92-8 | P010824035 | <LOQ (0.624) | | 0.562 | 0.624 | 0.216 | | | | U |
| | PFOS | 1763-23-1 | P010824035 | 2.05 | MM2* | 0.547 | 0.608 | 0.230 | | | | |
| | PFNS | 68259-12-1 | P010824035 | <LOQ (0.630) | | 0.567 | 0.630 | 0.153 | | | | U |
| | PFDS | 335-77-3 | P010824035 | <LOQ (0.632) | | 0.569 | 0.632 | 0.0570 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824035 | <LOQ (2.46) | | 2.21 | 2.46 | 1.03 | | | | U |
| | PFDoS | 79780-39-5 | P010824035 | <LOQ (0.635) | | 0.572 | 0.635 | 0.157 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824035 | <LOQ (2.49) | | 2.24 | 2.49 | 0.619 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824035 | <LOQ (2.51) | | 2.26 | 2.51 | 1.57 | | | | U |
| Other | ADONA | 919005-14-4 | P010824035 | <LOQ (2.47) | | 2.23 | 2.47 | 0.550 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824035 | <LOQ (2.45) | | 2.20 | 2.45 | 0.697 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824035 | <LOQ (0.655) | MM2* | 0.589 | 0.655 | 0.334 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824035 | <LOQ (2.47) | | 2.23 | 2.47 | 0.557 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824035 | 1.80 | MM2* | 0.589 | 0.655 | 0.317 | | | | |
| | PFEESA | 113507-82-7 | P010824035 | <LOQ (1.17) | | 1.05 | 1.17 | 0.207 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824035 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.0619 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824035 | <LOQ (0.655) | | 0.589 | 0.655 | 0.180 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824035 | <LOQ (0.655) | | 0.589 | 0.655 | 0.448 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824035 | <LOQ (6.55) | | 5.89 | 6.55 | 1.04 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824035 | <LOQ (6.55) | | 5.89 | 6.55 | 0.881 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824035 | <LOQ (2.62) | | 2.36 | 2.62 | 0.759 | | | | U |
| | PFMBA | 863090-89-5 | P010824035 | <LOQ (1.31) | | 1.18 | 1.31 | 0.536 | | | | U |
| | PFMPA | 377-73-1 | P010824035 | <LOQ (1.31) | | 1.18 | 1.31 | 0.246 | | | | U |
| | NFDHA | 151772-58-6 | P010824035 | <LOQ (1.31) | | 1.18 | 1.31 | 0.661 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824035 | <LOQ (3.27) | | 2.95 | 3.27 | 0.390 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824035 | <LOQ (3.27) | | 2.95 | 3.27 | 0.956 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824035 | <LOQ (3.27) | | 2.95 | 3.27 | 0.661 | | | | U |
| ES | M4PFBA | | P010824035 | | bb | | | | 100 | 8-130% | 75.9% | |
| | M5PFPeA | | P010824035 | | bs | | | | 50.0 | 35-130% | 98.9% | |
| | M5PFHxA | | P010824035 | | bb | | | | 25.0 | 40-130% | 93.7% | |
| | M4PFHpA | | P010824035 | | bs | | | | 25.0 | 40-130% | 99.7% | |
| | M8PFOA | | P010824035 | | bs | | | | 25.0 | 40-130% | 89.6% | |
| | M9PFNA | | P010824035 | | bb | | | | 12.5 | 40-130% | 93.6% | |
| | M6PFDA | | P010824035 | | bb | | | | 12.5 | 40-130% | 94.0% | |
| | M7PFUdA | | P010824035 | | bs | | | | 12.5 | 40-130% | 86.2% | |
| | M2-PFDoA | | P010824035 | | bb | | | | 12.5 | 40-130% | 89.4% | |
| | 13C2-PFTeDA | | P010824035 | | bb | | | | 12.5 | 20-130% | 81.9% | |
| | M3PFBS | | P010824035 | | bb | | | | 23.3 | 40-135% | 101.5% | |
| | M3PFHxS | | P010824035 | | bb | | | | 23.7 | 40-130% | 86.0% | |
| | M8PFOS | | P010824035 | | bb | | | | 24.0 | 40-130% | 84.8% | |
| | M2-4:2 FTS | | P010824035 | | bb | | | | 46.9 | 40-165% | 99.9% | |
| | M2-6:2 FTS | | P010824035 | | bs | | | | 47.6 | 40-215% | 88.8% | |
| | M2-8:2 FTS | | P010824035 | | bb | | | | 48.0 | 40-275% | 113.2% | |
| | M8PFOSA | | P010824035 | | bs | | | | 25.0 | 40-130% | 80.8% | |
| | d3-N-MeFOSA | | P010824035 | | bb | | | | 25.0 | 10-130% | 55.9% | |
| | d5-N-EtFOSA | | P010824035 | | bb | | | | 25.0 | 10-130% | 54.9% | |
| | d3-N-MeFOSAA | | P010824035 | | bs | | | | 50.0 | 40-135% | 109.7% | |
| | d5-N-EtFOSAA | | P010824035 | | bb | | | | 50.0 | 40-150% | 106.1% | |
| | d7-N-MeFOSE | | P010824035 | | bb | | | | 250 | 20-130% | 69.5% | |
| | d9-N-EtFOSE | | P010824035 | | bb | | | | 250 | 15-130% | 65.2% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-006-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.65 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.07 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.61 |
| AnalysisDate | 2024-08-02 03:14 | Split Factor | N/A | Dry Weight (g) | 2.65 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 30.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.53 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824035 | | bs | | | | 100 | 40-130% | 112.8% | |
| JS | M3PFBA | | P010824035 | | bb | | | | 50.0 | >30% | 101.1% | |
| | M2-PFHxA | | P010824035 | | bb | | | | 25.0 | >30% | 102.3% | |
| | M4-PFOA | | P010824035 | | bs | | | | 25.0 | >30% | 104.7% | |
| | M5-PFNA | | P010824035 | | bb | | | | 12.5 | >30% | 87.5% | |
| | M2-PFDA | | P010824035 | | bb | | | | 12.5 | >30% | 102.3% | |
| | 18O2PFHxS | | P010824035 | | bs | | | | 23.7 | >30% | 117.4% | |
| | M4-PFOS | | P010824035 | | bb | | | | 24.0 | >30% | 116.9% | |

Peak Flags  MM1*  MM-;r R.H.H. 08/02/2024
MM2*  MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S1 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-006-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 2.65 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.07 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.61 |
| AnalysisDate | 2024-08-07 21:02 | Split Factor | N/A | Dry Weight (g) | 2.65 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 30.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.53 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824018 | <LOQ (2.62) | MM1* | 2.36 | 2.62 | 0.615 | | | | U |
| | PFDA | 335-76-2 | P070824018 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.298 | | | | U |
| | PFUnDA | 2058-94-8 | P070824018 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.221 | | | | U |
| | PFDoA | 307-55-1 | P070824018 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.221 | | | | U |
| | PFTrDA | 72629-94-8 | P070824018 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.225 | | | | U |
| | PFTeDA | 376-06-7 | P070824018 | <LOQ (0.655) | | 0.589 | 0.655 | 0.169 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824018 | <LOQ (0.581) | | 0.523 | 0.581 | 0.125 | | | | U |
| | PFHpS | 375-92-8 | P070824018 | <LOQ (0.624) | | 0.562 | 0.624 | 0.216 | | | | U |
| | PFOS | 1763-23-1 | P070824018 | 1.88 | MM2* | 0.547 | 0.608 | 0.230 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824018 | <LOQ (2.51) | | 2.26 | 2.51 | 1.57 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824018 | <LOQ (0.655) | MM1* | 0.589 | 0.655 | 0.0619 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824018 | <LOQ (6.55) | | 5.89 | 6.55 | 1.04 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824018 | <LOQ (6.55) | | 5.89 | 6.55 | 0.881 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824018 | <LOQ (2.62) | | 2.36 | 2.62 | 0.759 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824018 | <LOQ (3.27) | | 2.95 | 3.27 | 0.661 | | | | U |
| Other | ADONA | 919005-14-4 | P070824018 | <LOQ (2.47) | | 2.23 | 2.47 | 0.550 | | | | U |
| ES | M4PFBA | | P070824018 | | bb | | | | 100 | 8-130% | 79.7% | |
| | M5PFHxA | | P070824018 | | bs | | | | 25.0 | 40-130% | 80.3% | |
| | M6PFDA | | P070824018 | | bb | | | | 12.5 | 40-130% | 77.2% | |
| | M7PFUdA | | P070824018 | | bb | | | | 12.5 | 40-130% | 61.9% | |
| | M2-PFDoA | | P070824018 | | bb | | | | 12.5 | 40-130% | 75.9% | |
| | 13C2-PFTeDA | | P070824018 | | bb | | | | 12.5 | 20-130% | 70.6% | |
| | M3PFBS | | P070824018 | | bb | | | | 23.3 | 40-135% | 87.4% | |
| | M8PFOS | | P070824018 | | bb | | | | 24.0 | 40-130% | 76.4% | |
| | M2-8:2 FTS | | P070824018 | | bb | | | | 48.0 | 40-275% | 85.3% | |
| | M8PFOSA | | P070824018 | | bs | | | | 25.0 | 40-130% | 79.1% | |
| | d7-N-MeFOSE | | P070824018 | | bb | | | | 250 | 20-130% | 71.8% | |
| | d9-N-EtFOSE | | P070824018 | | bb | | | | 250 | 15-130% | 70.4% | |
| | M3HFPO-DA | | P070824018 | | bb | | | | 100 | 40-130% | 96.3% | |
| JS | M3PFBA | | P070824018 | | bb | | | | 50.0 | >30% | 112.3% | |
| | M2-PFHxA | | P070824018 | | bb | | | | 25.0 | >30% | 107.3% | |
| | M2-PFDA | | P070824018 | | bb | | | | 12.5 | >30% | 111.9% | |
| | M4-PFOS | | P070824018 | | bb | | | | 24.0 | >30% | 125.7% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LSI | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-007-1A | Prep Batch | EU17844 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.7 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 4.06 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.11 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.7 |
| AnalysisDate | 2024-08-02 03:37 | Split Factor | N/A | Dry Weight (g) | 4.06 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 53.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 2.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824036 | <LOQ (1.46) | MM1* | 1.31 | 1.46 | 0.343 | | | | U |
| | PFPeA | 2706-90-3 | P010824036 | <LOQ (0.729) | MM1* | 0.656 | 0.729 | 0.115 | | | | U |
| | PFHxA | 307-24-4 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.120 | | | | U |
| | PFHpA | 375-85-9 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.110 | | | | U |
| | PFOA | 335-67-1 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.0893 | | | | U |
| | PFNA | 375-95-1 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.0698 | | | | U |
| | PFDA | 335-76-2 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.166 | | | | U |
| | PFUnDA | 2058-94-8 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.123 | | | | U |
| | PFDoA | 307-55-1 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.123 | | | | U |
| | PFTrDA | 72629-94-8 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.125 | | | | U |
| | PFTeDA | 376-06-7 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.0939 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824036 | <LOQ (0.323) | MM1* | 0.291 | 0.323 | 0.0698 | | | | U |
| | PFPeS | 2706-91-4 | P010824036 | <LOQ (0.343) | | 0.309 | 0.343 | 0.0933 | | | | U |
| | PFHxS | 355-46-4 | P010824036 | <LOQ (0.333) | MM1* | 0.300 | 0.333 | 0.141 | | | | U |
| | PFHpS | 375-92-8 | P010824036 | <LOQ (0.347) | | 0.313 | 0.347 | 0.120 | | | | U |
| | PFOS | 1763-23-1 | P010824036 | 0.558 | MM2* | 0.304 | 0.338 | 0.128 | | | | |
| | PFNS | 68259-12-1 | P010824036 | <LOQ (0.351) | | 0.316 | 0.351 | 0.0853 | | | | U |
| | PFDS | 335-77-3 | P010824036 | <LOQ (0.352) | | 0.317 | 0.352 | 0.0317 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824036 | <LOQ (1.37) | | 1.23 | 1.37 | 0.572 | | | | U |
| | PFDoS | 79780-39-5 | P010824036 | <LOQ (0.354) | | 0.318 | 0.354 | 0.0877 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824036 | <LOQ (1.39) | | 1.25 | 1.39 | 0.344 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824036 | <LOQ (1.40) | | 1.26 | 1.40 | 0.877 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824036 | <LOQ (0.365) | MM1* | 0.328 | 0.365 | 0.0344 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.100 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.250 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824036 | <LOQ (3.65) | | 3.28 | 3.65 | 0.578 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824036 | <LOQ (3.65) | | 3.28 | 3.65 | 0.490 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824036 | <LOQ (1.46) | | 1.31 | 1.46 | 0.423 | | | | U |
| | PFMBA | 863090-89-5 | P010824036 | <LOQ (0.729) | | 0.656 | 0.729 | 0.298 | | | | U |
| | PFMPA | 377-73-1 | P010824036 | <LOQ (0.729) | | 0.656 | 0.729 | 0.137 | | | | U |
| | NFDHA | 151772-58-6 | P010824036 | <LOQ (0.729) | | 0.656 | 0.729 | 0.368 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824036 | <LOQ (1.82) | | 1.64 | 1.82 | 0.217 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824036 | <LOQ (1.82) | | 1.64 | 1.82 | 0.532 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824036 | <LOQ (1.82) | | 1.64 | 1.82 | 0.368 | | | | U |
| Other | ADONA | 919005-14-4 | P010824036 | <LOQ (1.38) | | 1.24 | 1.38 | 0.306 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824036 | <LOQ (1.36) | | 1.23 | 1.36 | 0.388 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824036 | <LOQ (0.365) | | 0.328 | 0.365 | 0.186 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824036 | <LOQ (1.38) | | 1.24 | 1.38 | 0.310 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824036 | <LOQ (0.365) | MM2* | 0.328 | 0.365 | 0.176 | | | | U |
| | PFEESA | 113507-82-7 | P010824036 | <LOQ (0.649) | | 0.584 | 0.649 | 0.115 | | | | U |
| ES | M4PFBA | | P010824036 | | bb | | | | 100 | 8-130% | 93.7% | |
| | M5PFPeA | | P010824036 | | bs | | | | 50.0 | 35-130% | 95.7% | |
| | M5PFHxA | | P010824036 | | bb | | | | 25.0 | 40-130% | 90.0% | |
| | M4PFHpA | | P010824036 | | bb | | | | 25.0 | 40-130% | 96.5% | |
| | M8PFOA | | P010824036 | | bs | | | | 25.0 | 40-130% | 92.7% | |
| | M9PFNA | | P010824036 | | bb | | | | 12.5 | 40-130% | 93.9% | |
| | M6PFDA | | P010824036 | | bb | | | | 12.5 | 40-130% | 89.1% | |
| | M7PFUdA | | P010824036 | | bb | | | | 12.5 | 40-130% | 82.5% | |
| | M2-PFDoA | | P010824036 | | bs | | | | 12.5 | 40-130% | 84.9% | |
| | 13C2-PFTeDA | | P010824036 | | bb | | | | 12.5 | 20-130% | 81.0% | |
| | M3PFBS | | P010824036 | | bb | | | | 23.3 | 40-135% | 101.3% | |
| | M3PFHxS | | P010824036 | | bb | | | | 23.7 | 40-130% | 92.6% | |
| | M8PFOS | | P010824036 | | bb | | | | 24.0 | 40-130% | 82.7% | |
| | M2-4:2 FTS | | P010824036 | | bb | | | | 46.9 | 40-165% | 82.5% | |
| | M2-6:2 FTS | | P010824036 | | bb | | | | 47.6 | 40-215% | 66.9% | |
| | M2-8:2 FTS | | P010824036 | | bs | | | | 48.0 | 40-275% | 88.7% | |
| | M8PFOSA | | P010824036 | | bs | | | | 25.0 | 40-130% | 71.6% | |
| | d3-N-MeFOSA | | P010824036 | | bb | | | | 25.0 | 10-130% | 41.4% | |
| | d5-N-EtFOSA | | P010824036 | | bb | | | | 25.0 | 10-130% | 41.4% | |
| | d3-N-MeFOSAA | | P010824036 | | bb | | | | 50.0 | 40-135% | 86.2% | |
| | d5-N-EtFOSAA | | P010824036 | | bs | | | | 50.0 | 40-150% | 94.5% | |
| | d7-N-MeFOSE | | P010824036 | | bb | | | | 250 | 20-130% | 64.5% | |
| | d9-N-EtFOSE | | P010824036 | | bb | | | | 250 | 15-130% | 59.5% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LSI | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-007-1A | Prep Batch | EU17844 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.7 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 4.06 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.11 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.7 |
| AnalysisDate | 2024-08-02 03:37 | Split Factor | N/A | Dry Weight (g) | 4.06 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 53.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 2.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824036 | | bb | | | | 100 | 40-130% | 108.8% | |
| JS | M3PFBA | | P010824036 | | bb | | | | 50.0 | >30% | 104.2% | |
| | M2-PFHxA | | P010824036 | | bs | | | | 25.0 | >30% | 107.6% | |
| | M4-PFOA | | P010824036 | | bb | | | | 25.0 | >30% | 102.9% | |
| | M5-PFNA | | P010824036 | | bb | | | | 12.5 | >30% | 87.8% | |
| | M2-PFDA | | P010824036 | | bb | | | | 12.5 | >30% | 103.3% | |
| | 18O2PFHxS | | P010824036 | | bb | | | | 23.7 | >30% | 117.6% | |
| | M4-PFOS | | P010824036 | | bs | | | | 24.0 | >30% | 120.8% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LSI | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-007-1B | Prep Batch | EU17914 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.7 |
| Sampling Date | 2024-07-17 10:48 | Instrument | Pippin | Dry Weight (g) | 4.06 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.7 |
| AnalysisDate | 2024-08-07 21:24 | Split Factor | N/A | Dry Weight (g) | 4.06 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 53.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 2.68 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824019 | <LOQ (1.49) | MM1* | 1.34 | 1.49 | 0.350 | | | | U |
| | PFDA | 335-76-2 | P070824019 | <LOQ (0.373) | MM1* | 0.335 | 0.373 | 0.170 | | | | U |
| | PFUnDA | 2058-94-8 | P070824019 | <LOQ (0.373) | MM1* | 0.335 | 0.373 | 0.126 | | | | U |
| | PFDoA | 307-55-1 | P070824019 | <LOQ (0.373) | | 0.335 | 0.373 | 0.126 | | | | U |
| | PFTrDA | 72629-94-8 | P070824019 | <LOQ (0.373) | | 0.335 | 0.373 | 0.128 | | | | U |
| | PFTeDA | 376-06-7 | P070824019 | <LOQ (0.373) | | 0.335 | 0.373 | 0.0959 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824019 | <LOQ (0.330) | | 0.297 | 0.330 | 0.0713 | | | | U |
| | PFHpS | 375-92-8 | P070824019 | <LOQ (0.355) | | 0.320 | 0.355 | 0.123 | | | | U |
| | PFOS | 1763-23-1 | P070824019 | 0.555 | MM2* | 0.311 | 0.346 | 0.131 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824019 | <LOQ (1.43) | | 1.29 | 1.43 | 0.896 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824019 | <LOQ (0.373) | MM1* | 0.335 | 0.373 | 0.0352 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824019 | <LOQ (3.73) | | 3.35 | 3.73 | 0.590 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824019 | <LOQ (3.73) | | 3.35 | 3.73 | 0.501 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824019 | <LOQ (1.49) | | 1.34 | 1.49 | 0.432 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824019 | <LOQ (1.86) | | 1.68 | 1.86 | 0.376 | | | | U |
| Other | ADONA | 919005-14-4 | P070824019 | <LOQ (1.41) | | 1.27 | 1.41 | 0.313 | | | | U |
| ES | M4PFBA | | P070824019 | | bb | | | | 100 | 8-130% | 76.6% | |
| | M5PFHxA | | P070824019 | | bb | | | | 25.0 | 40-130% | 74.5% | |
| | M6PFDA | | P070824019 | | bb | | | | 12.5 | 40-130% | 74.4% | |
| | M7PFUdA | | P070824019 | | bb | | | | 12.5 | 40-130% | 65.6% | |
| | M2-PFDoA | | P070824019 | | bs | | | | 12.5 | 40-130% | 72.3% | |
| | 13C2-PFTeDA | | P070824019 | | bb | | | | 12.5 | 20-130% | 67.4% | |
| | M3PFBS | | P070824019 | | bb | | | | 23.3 | 40-135% | 75.6% | |
| | M8PFOS | | P070824019 | | bb | | | | 24.0 | 40-130% | 73.9% | |
| | M2-8:2 FTS | | P070824019 | | bb | | | | 48.0 | 40-275% | 75.6% | |
| | M8PFOSA | | P070824019 | | bs | | | | 25.0 | 40-130% | 74.5% | |
| | d7-N-MeFOSE | | P070824019 | | bb | | | | 250 | 20-130% | 67.8% | |
| | d9-N-EtFOSE | | P070824019 | | bb | | | | 250 | 15-130% | 65.3% | |
| | M3HFPO-DA | | P070824019 | | bb | | | | 100 | 40-130% | 96.5% | |
| JS | M3PFBA | | P070824019 | | bb | | | | 50.0 | >30% | 112.0% | |
| | M2-PFHxA | | P070824019 | | bs | | | | 25.0 | >30% | 111.2% | |
| | M2-PFDA | | P070824019 | | bb | | | | 12.5 | >30% | 108.3% | |
| | M4-PFOS | | P070824019 | | bb | | | | 24.0 | >30% | 122.5% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-009-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.49 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.02 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.61 |
| AnalysisDate | 2024-08-02 03:59 | Split Factor | N/A | Dry Weight (g) | 1.49 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.40 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824037 | <LOQ (9.94) | MM1* | 8.94 | 9.94 | 2.34 | | | | U |
| | PFPeA | 2706-90-3 | P010824037 | <LOQ (4.97) | MM1* | 4.47 | 4.97 | 0.781 | | | | U |
| | PFHxA | 307-24-4 | P010824037 | <LOQ (2.48) | MM1* | 2.24 | 2.48 | 0.820 | | | | U |
| | PFHpA | 375-85-9 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.749 | | | | U |
| | PFOA | 335-67-1 | P010824037 | <LOQ (2.48) | MM1* | 2.24 | 2.48 | 0.609 | | | | U |
| | PFNA | 375-95-1 | P010824037 | <LOQ (2.48) | MM1* | 2.24 | 2.48 | 0.476 | | | | U |
| | PFDA | 335-76-2 | P010824037 | <LOQ (2.48) | MM1* | 2.24 | 2.48 | 1.13 | | | | U |
| | PFUnDA | 2058-94-8 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.840 | | | | U |
| | PFDoA | 307-55-1 | P010824037 | <LOQ (2.48) | MM1* | 2.24 | 2.48 | 0.840 | | | | U |
| | PFTrDA | 72629-94-8 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.855 | | | | U |
| | PFTeDA | 376-06-7 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.640 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824037 | <LOQ (2.20) | MM1* | 1.98 | 2.20 | 0.476 | | | | U |
| | PFPeS | 2706-91-4 | P010824037 | <LOQ (2.34) | | 2.10 | 2.34 | 0.636 | | | | U |
| | PFHxS | 355-46-4 | P010824037 | <LOQ (2.27) | MM1* | 2.04 | 2.27 | 0.960 | | | | U |
| | PFHpS | 375-92-8 | P010824037 | <LOQ (2.37) | | 2.13 | 2.37 | 0.820 | | | | U |
| | PFOS | 1763-23-1 | P010824037 | <LOQ (2.31) | MM2* | 2.07 | 2.31 | 0.875 | | | | U |
| | PFNS | 68259-12-1 | P010824037 | <LOQ (2.39) | | 2.15 | 2.39 | 0.581 | | | | U |
| | PFDS | 335-77-3 | P010824037 | <LOQ (2.40) | | 2.16 | 2.40 | 0.216 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824037 | <LOQ (9.32) | | 8.38 | 9.32 | 3.90 | | | | U |
| | PFDoS | 79780-39-5 | P010824037 | <LOQ (2.41) | | 2.17 | 2.41 | 0.597 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824037 | <LOQ (9.44) | | 8.50 | 9.44 | 2.35 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824037 | <LOQ (9.54) | | 8.59 | 9.54 | 5.97 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.235 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 0.683 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 1.70 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824037 | <LOQ (24.8) | | 22.4 | 24.8 | 3.94 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824037 | <LOQ (24.8) | | 22.4 | 24.8 | 3.34 | | | | U |
| Other | ADONA | 919005-14-4 | P010824037 | <LOQ (9.39) | | 8.45 | 9.39 | 2.09 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824037 | <LOQ (9.29) | | 8.36 | 9.29 | 2.65 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 1.27 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824037 | <LOQ (9.39) | | 8.45 | 9.39 | 2.11 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824037 | <LOQ (2.48) | | 2.24 | 2.48 | 1.20 | | | | U |
| | PFEESA | 113507-82-7 | P010824037 | <LOQ (4.42) | | 3.98 | 4.42 | 0.785 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824037 | <LOQ (9.94) | | 8.94 | 9.94 | 2.88 | | | | U |
| | PFMBA | 863090-89-5 | P010824037 | <LOQ (4.97) | | 4.47 | 4.97 | 2.03 | | | | U |
| | PFMPA | 377-73-1 | P010824037 | <LOQ (4.97) | | 4.47 | 4.97 | 0.933 | | | | U |
| | NFDHA | 151772-58-6 | P010824037 | <LOQ (4.97) | | 4.47 | 4.97 | 2.51 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824037 | <LOQ (12.4) | | 11.2 | 12.4 | 1.48 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824037 | <LOQ (12.4) | | 11.2 | 12.4 | 3.63 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824037 | <LOQ (12.4) | | 11.2 | 12.4 | 2.51 | | | | U |
| ES | M4PFBA | | P010824037 | | bb | | | | 100 | 8-130% | 92.6% | |
| | M5PFPeA | | P010824037 | | bs | | | | 50.0 | 35-130% | 94.3% | |
| | M5PFHxA | | P010824037 | | bb | | | | 25.0 | 40-130% | 90.6% | |
| | M4PFHpA | | P010824037 | | bs | | | | 25.0 | 40-130% | 97.7% | |
| | M8PFOA | | P010824037 | | bs | | | | 25.0 | 40-130% | 91.0% | |
| | M9PFNA | | P010824037 | | bb | | | | 12.5 | 40-130% | 82.7% | |
| | M6PFDA | | P010824037 | | bb | | | | 12.5 | 40-130% | 79.9% | |
| | M7PFUdA | | P010824037 | | bb | | | | 12.5 | 40-130% | 70.7% | |
| | M2-PFDoA | | P010824037 | | bs | | | | 12.5 | 40-130% | 75.0% | |
| | 13C2-PFTeDA | | P010824037 | | bb | | | | 12.5 | 20-130% | 72.5% | |
| | M3PFBS | | P010824037 | | bb | | | | 23.3 | 40-135% | 98.4% | |
| | M3PFHxS | | P010824037 | | bb | | | | 23.7 | 40-130% | 93.2% | |
| | M8PFOS | | P010824037 | | bb | | | | 24.0 | 40-130% | 82.2% | |
| | M2-4:2 FTS | | P010824037 | | bb | | | | 46.9 | 40-165% | 86.2% | |
| | M2-6:2 FTS | | P010824037 | | bb | | | | 47.6 | 40-215% | 74.6% | |
| | M2-8:2 FTS | | P010824037 | | bb | | | | 48.0 | 40-275% | 77.3% | |
| | M8PFOSA | | P010824037 | | bb | | | | 25.0 | 40-130% | 73.5% | |
| | d3-N-MeFOSA | | P010824037 | | bb | | | | 25.0 | 10-130% | 36.6% | |
| | d5-N-EtFOSA | | P010824037 | | bb | | | | 25.0 | 10-130% | 31.0% | |
| | d3-N-MeFOSAA | | P010824037 | | bb | | | | 50.0 | 40-135% | 83.7% | |
| | d5-N-EtFOSAA | | P010824037 | | bb | | | | 50.0 | 40-150% | 81.0% | |
| | d7-N-MeFOSE | | P010824037 | | bb | | | | 250 | 20-130% | 53.0% | |
| | d9-N-EtFOSE | | P010824037 | | bb | | | | 250 | 15-130% | 49.9% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-009-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.49 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.02 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.61 |
| AnalysisDate | 2024-08-02 03:59 | Split Factor | N/A | Dry Weight (g) | 1.49 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.40 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824037 | | bb | | | | 100 | 40-130% | 111.1% | |
| JS | M3PFBA | | P010824037 | | bb | | | | 50.0 | >30% | 101.1% | |
| | M2-PFHxA | | P010824037 | | bs | | | | 25.0 | >30% | 103.3% | |
| | M4-PFOA | | P010824037 | | bb | | | | 25.0 | >30% | 99.6% | |
| | M5-PFNA | | P010824037 | | bb | | | | 12.5 | >30% | 86.8% | |
| | M2-PFDA | | P010824037 | | bb | | | | 12.5 | >30% | 98.9% | |
| | 18O2PFHxS | | P010824037 | | bs | | | | 23.7 | >30% | 110.0% | |
| | M4-PFOS | | P010824037 | | bb | | | | 24.0 | >30% | 106.6% | |

Peak Flags  MM1*  MM-;r R.H.H. 08/02/2024
MM2*  MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-009-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.96 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.49 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.08 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 6.61 |
| AnalysisDate | 2024-08-07 21:47 | Split Factor | N/A | Dry Weight (g) | 1.49 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.41 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824020 | <LOQ (9.82) | MM1* | 8.84 | 9.82 | 2.31 | | | | U |
| | PFDA | 335-76-2 | P070824020 | <LOQ (2.46) | MM1* | 2.21 | 2.46 | 1.12 | | | | U |
| | PFUnDA | 2058-94-8 | P070824020 | <LOQ (2.46) | MM1* | 2.21 | 2.46 | 0.830 | | | | U |
| | PFDoA | 307-55-1 | P070824020 | <LOQ (2.46) | MM1* | 2.21 | 2.46 | 0.830 | | | | U |
| | PFTrDA | 72629-94-8 | P070824020 | <LOQ (2.46) | MM1* | 2.21 | 2.46 | 0.845 | | | | U |
| | PFTeDA | 376-06-7 | P070824020 | <LOQ (2.46) | | 2.21 | 2.46 | 0.632 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824020 | <LOQ (2.18) | | 1.96 | 2.18 | 0.470 | | | | U |
| | PFHpS | 375-92-8 | P070824020 | <LOQ (2.34) | | 2.11 | 2.34 | 0.810 | | | | U |
| | PFOS | 1763-23-1 | P070824020 | 3.89 | MM2* | 2.05 | 2.28 | 0.864 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824020 | <LOQ (9.43) | | 8.48 | 9.43 | 5.90 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824020 | <LOQ (2.46) | | 2.21 | 2.46 | 0.232 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824020 | <LOQ (24.6) | | 22.1 | 24.6 | 3.89 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824020 | <LOQ (24.6) | | 22.1 | 24.6 | 3.30 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824020 | <LOQ (9.82) | | 8.84 | 9.82 | 2.85 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824020 | <LOQ (12.3) | | 11.0 | 12.3 | 2.48 | | | | U |
| Other | ADONA | 919005-14-4 | P070824020 | <LOQ (9.28) | | 8.35 | 9.28 | 2.06 | | | | U |
| ES | M4PFBA | | P070824020 | | bb | | | | 100 | 8-130% | 64.9% | |
| | M5PFHxA | | P070824020 | | bb | | | | 25.0 | 40-130% | 83.5% | |
| | M6PFDA | | P070824020 | | bb | | | | 12.5 | 40-130% | 84.9% | |
| | M7PFUdA | | P070824020 | | bb | | | | 12.5 | 40-130% | 72.3% | |
| | M2-PFDoA | | P070824020 | | bs | | | | 12.5 | 40-130% | 82.1% | |
| | 13C2-PFTeDA | | P070824020 | | bb | | | | 12.5 | 20-130% | 76.2% | |
| | M3PFBS | | P070824020 | | bs | | | | 23.3 | 40-135% | 85.9% | |
| | M8PFOS | | P070824020 | | bb | | | | 24.0 | 40-130% | 76.7% | |
| | M2-8:2 FTS | | P070824020 | | bb | | | | 48.0 | 40-275% | 83.3% | |
| | M8PFOSA | | P070824020 | | bb | | | | 25.0 | 40-130% | 78.6% | |
| | d7-N-MeFOSE | | P070824020 | | bb | | | | 250 | 20-130% | 78.0% | |
| | d9-N-EtFOSE | | P070824020 | | bb | | | | 250 | 15-130% | 75.7% | |
| | M3HFPO-DA | | P070824020 | | bb | | | | 100 | 40-130% | 102.6% | |
| JS | M3PFBA | | P070824020 | | bb | | | | 50.0 | >30% | 113.7% | |
| | M2-PFHxA | | P070824020 | | bs | | | | 25.0 | >30% | 109.5% | |
| | M2-PFDA | | P070824020 | | bb | | | | 12.5 | >30% | 109.9% | |
| | M4-PFOS | | P070824020 | | bb | | | | 24.0 | >30% | 130.8% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-010-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.55 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-02 04:22 | Split Factor | N/A | Dry Weight (g) | 1.55 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.50 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824038 | <LOQ (7.97) | MM1* | 7.17 | 7.97 | 1.87 | | | | U |
| | PFPeA | 2706-90-3 | P010824038 | <LOQ (3.99) | MM1* | 3.59 | 3.99 | 0.627 | | | | U |
| | PFHxA | 307-24-4 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.658 | | | | U |
| | PFHpA | 375-85-9 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.601 | | | | U |
| | PFOA | 335-67-1 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.488 | | | | U |
| | PFNA | 375-95-1 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.382 | | | | U |
| | PFDA | 335-76-2 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.908 | | | | U |
| | PFUnDA | 2058-94-8 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.674 | | | | U |
| | PFDoA | 307-55-1 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.674 | | | | U |
| | PFTrDA | 72629-94-8 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.686 | | | | U |
| | PFTeDA | 376-06-7 | P010824038 | <LOQ (1.99) | MM1* | 1.79 | 1.99 | 0.513 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824038 | <LOQ (1.77) | MM1* | 1.59 | 1.77 | 0.382 | | | | U |
| | PFPeS | 2706-91-4 | P010824038 | <LOQ (1.88) | | 1.69 | 1.88 | 0.510 | | | | U |
| | PFHxS | 355-46-4 | P010824038 | <LOQ (1.82) | MM1* | 1.64 | 1.82 | 0.770 | | | | U |
| | PFHpS | 375-92-8 | P010824038 | <LOQ (1.90) | | 1.71 | 1.90 | 0.658 | | | | U |
| | PFOS | 1763-23-1 | P010824038 | 7.41 | MM2* | 1.66 | 1.85 | 0.701 | | | | |
| | PFNS | 68259-12-1 | P010824038 | <LOQ (1.92) | | 1.73 | 1.92 | 0.466 | | | | U |
| | PFDS | 335-77-3 | P010824038 | <LOQ (1.92) | | 1.73 | 1.92 | 0.173 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824038 | <LOQ (7.47) | | 6.73 | 7.47 | 3.13 | | | | U |
| | PFDoS | 79780-39-5 | P010824038 | <LOQ (1.93) | | 1.74 | 1.93 | 0.479 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824038 | <LOQ (7.57) | | 6.82 | 7.57 | 1.88 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824038 | <LOQ (7.65) | | 6.89 | 7.65 | 4.79 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824038 | <LOQ (1.99) | | 1.79 | 1.99 | 0.188 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824038 | <LOQ (1.99) | | 1.79 | 1.99 | 0.548 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824038 | <LOQ (1.99) | | 1.79 | 1.99 | 1.37 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824038 | <LOQ (19.9) | | 17.9 | 19.9 | 3.16 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824038 | <LOQ (19.9) | | 17.9 | 19.9 | 2.68 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824038 | <LOQ (7.97) | | 7.17 | 7.97 | 2.31 | | | | U |
| | PFMBA | 863090-89-5 | P010824038 | <LOQ (3.99) | | 3.59 | 3.99 | 1.63 | | | | U |
| | PFMPA | 377-73-1 | P010824038 | <LOQ (3.99) | | 3.59 | 3.99 | 0.748 | | | | U |
| | NFDHA | 151772-58-6 | P010824038 | <LOQ (3.99) | MM1* | 3.59 | 3.99 | 2.01 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824038 | <LOQ (9.96) | | 8.97 | 9.96 | 1.19 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824038 | <LOQ (9.96) | | 8.97 | 9.96 | 2.91 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824038 | <LOQ (9.96) | | 8.97 | 9.96 | 2.01 | | | | U |
| Other | ADONA | 919005-14-4 | P010824038 | <LOQ (7.53) | | 6.78 | 7.53 | 1.67 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824038 | <LOQ (7.45) | | 6.71 | 7.45 | 2.12 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824038 | <LOQ (1.99) | MM2* | 1.79 | 1.99 | 1.02 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824038 | <LOQ (7.53) | | 6.78 | 7.53 | 1.69 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824038 | 2.17 | MM2* | 1.79 | 1.99 | 0.965 | | | | |
| | PFEESA | 113507-82-7 | P010824038 | <LOQ (3.55) | | 3.19 | 3.55 | 0.630 | | | | U |
| ES | M4PFBA | | P010824038 | | bb | | | | 100 | 8-130% | 71.5% | |
| | M5PFPeA | | P010824038 | | bs | | | | 50.0 | 35-130% | 92.3% | |
| | M5PFHxA | | P010824038 | | bb | | | | 25.0 | 40-130% | 87.8% | |
| | M4PFHpA | | P010824038 | | bb | | | | 25.0 | 40-130% | 90.8% | |
| | M8PFOA | | P010824038 | | bs | | | | 25.0 | 40-130% | 87.6% | |
| | M9PFNA | | P010824038 | | bb | | | | 12.5 | 40-130% | 86.0% | |
| | M6PFDA | | P010824038 | | bb | | | | 12.5 | 40-130% | 82.6% | |
| | M7PFUdA | | P010824038 | | bs | | | | 12.5 | 40-130% | 77.9% | |
| | M2-PFDoA | | P010824038 | | bs | | | | 12.5 | 40-130% | 81.6% | |
| | 13C2-PFTeDA | | P010824038 | | bb | | | | 12.5 | 20-130% | 82.5% | |
| | M3PFBS | | P010824038 | | bb | | | | 23.3 | 40-135% | 101.2% | |
| | M3PFHxS | | P010824038 | | bb | | | | 23.7 | 40-130% | 94.0% | |
| | M8PFOS | | P010824038 | | bb | | | | 24.0 | 40-130% | 83.1% | |
| | M2-4:2 FTS | | P010824038 | | bs | | | | 46.9 | 40-165% | 97.1% | |
| | M2-6:2 FTS | | P010824038 | | bb | | | | 47.6 | 40-215% | 86.2% | |
| | M2-8:2 FTS | | P010824038 | | bb | | | | 48.0 | 40-275% | 102.3% | |
| | M8PFOSA | | P010824038 | | bb | | | | 25.0 | 40-130% | 79.2% | |
| | d3-N-MeFOSA | | P010824038 | | bb | | | | 25.0 | 10-130% | 56.4% | |
| | d5-N-EtFOSA | | P010824038 | | bb | | | | 25.0 | 10-130% | 56.2% | |
| | d3-N-MeFOSAA | | P010824038 | | bs | | | | 50.0 | 40-135% | 107.3% | |
| | d5-N-EtFOSAA | | P010824038 | | bs | | | | 50.0 | 40-150% | 112.2% | |
| | d7-N-MeFOSE | | P010824038 | | bb | | | | 250 | 20-130% | 63.4% | |
| | d9-N-EtFOSE | | P010824038 | | bb | | | | 250 | 15-130% | 61.7% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-010-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.55 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-02 04:22 | Split Factor | N/A | Dry Weight (g) | 1.55 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.50 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824038 | | bs | | | | 100 | 40-130% | 99.5% | |
| JS | M3PFBA | | P010824038 | | bb | | | | 50.0 | >30% | 100.3% | |
| | M2-PFHxA | | P010824038 | | bs | | | | 25.0 | >30% | 100.7% | |
| | M4-PFOA | | P010824038 | | bs | | | | 25.0 | >30% | 99.7% | |
| | M5-PFNA | | P010824038 | | bb | | | | 12.5 | >30% | 87.0% | |
| | M2-PFDA | | P010824038 | | bb | | | | 12.5 | >30% | 102.1% | |
| | 18O2PFHxS | | P010824038 | | bb | | | | 23.7 | >30% | 110.8% | |
| | M4-PFOS | | P010824038 | | bb | | | | 24.0 | >30% | 111.0% | |

Peak Flags  MM1*  MM-;r R.H.H. 08/02/2024
MM2*  MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-010-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.57 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 1.55 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-07 22:10 | Split Factor | N/A | Dry Weight (g) | 1.55 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.51 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824021 | <LOQ (7.89) | MM1* | 7.10 | 7.89 | 1.85 | | | | U |
| | PFDA | 335-76-2 | P070824021 | <LOQ (1.97) | MM1* | 1.78 | 1.97 | 0.899 | | | | U |
| | PFUnDA | 2058-94-8 | P070824021 | <LOQ (1.97) | MM1* | 1.78 | 1.97 | 0.667 | | | | U |
| | PFDoA | 307-55-1 | P070824021 | <LOQ (1.97) | MM1* | 1.78 | 1.97 | 0.667 | | | | U |
| | PFTrDA | 72629-94-8 | P070824021 | <LOQ (1.97) | MM1* | 1.78 | 1.97 | 0.679 | | | | U |
| | PFTeDA | 376-06-7 | P070824021 | <LOQ (1.97) | MM1* | 1.78 | 1.97 | 0.508 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824021 | <LOQ (1.75) | MM1* | 1.57 | 1.75 | 0.378 | | | | U |
| | PFHpS | 375-92-8 | P070824021 | <LOQ (1.88) | | 1.69 | 1.88 | 0.651 | | | | U |
| | PFOS | 1763-23-1 | P070824021 | 7.10 | MM2* | 1.65 | 1.83 | 0.695 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824021 | <LOQ (7.58) | | 6.82 | 7.58 | 4.75 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824021 | <LOQ (1.97) | | 1.78 | 1.97 | 0.186 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824021 | <LOQ (19.7) | | 17.8 | 19.7 | 3.13 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824021 | <LOQ (19.7) | | 17.8 | 19.7 | 2.65 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824021 | <LOQ (7.89) | | 7.10 | 7.89 | 2.29 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824021 | <LOQ (9.87) | | 8.88 | 9.87 | 1.99 | | | | U |
| Other | ADONA | 919005-14-4 | P070824021 | <LOQ (7.46) | | 6.71 | 7.46 | 1.66 | | | | U |
| ES | M4PFBA | | P070824021 | | bb | | | | 100 | 8-130% | 82.7% | |
| | M5PFHxA | | P070824021 | | bb | | | | 25.0 | 40-130% | 82.5% | |
| | M6PFDA | | P070824021 | | bb | | | | 12.5 | 40-130% | 81.4% | |
| | M7PFUdA | | P070824021 | | bb | | | | 12.5 | 40-130% | 72.0% | |
| | M2-PFDoA | | P070824021 | | bs | | | | 12.5 | 40-130% | 83.1% | |
| | 13C2-PFTeDA | | P070824021 | | bb | | | | 12.5 | 20-130% | 71.8% | |
| | M3PFBS | | P070824021 | | bb | | | | 23.3 | 40-135% | 85.8% | |
| | M8PFOS | | P070824021 | | bb | | | | 24.0 | 40-130% | 75.9% | |
| | M2-8:2 FTS | | P070824021 | | bb | | | | 48.0 | 40-275% | 86.6% | |
| | M8PFOSA | | P070824021 | | bs | | | | 25.0 | 40-130% | 78.5% | |
| | d7-N-MeFOSE | | P070824021 | | bb | | | | 250 | 20-130% | 78.6% | |
| | d9-N-EtFOSE | | P070824021 | | bb | | | | 250 | 15-130% | 74.9% | |
| | M3HFPO-DA | | P070824021 | | bb | | | | 100 | 40-130% | 107.3% | |
| JS | M3PFBA | | P070824021 | | bb | | | | 50.0 | >30% | 110.8% | |
| | M2-PFHxA | | P070824021 | | bb | | | | 25.0 | >30% | 108.7% | |
| | M2-PFDA | | P070824021 | | bb | | | | 12.5 | >30% | 106.7% | |
| | M4-PFOS | | P070824021 | | bb | | | | 24.0 | >30% | 127.7% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LS2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-011-1A | Prep Batch | EU17844 | Tare Weight (g) | 1.003 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.51 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 3.17 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.507 |
| AnalysisDate | 2024-08-02 04:45 | Split Factor | N/A | Dry Weight (g) | 3.17 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 39.3% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.99 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824039 | <LOQ (2.01) | MM1* | 1.81 | 2.01 | 0.473 | | | | U |
| | PFPeA | 2706-90-3 | P010824039 | <LOQ (1.01) | MM1* | 0.906 | 1.01 | 0.158 | | | | U |
| | PFHxA | 307-24-4 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.166 | | | | U |
| | PFHpA | 375-85-9 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.152 | | | | U |
| | PFOA | 335-67-1 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.123 | | | | U |
| | PFNA | 375-95-1 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.0964 | | | | U |
| | PFDA | 335-76-2 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.229 | | | | U |
| | PFUnDA | 2058-94-8 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.170 | | | | U |
| | PFDoA | 307-55-1 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.170 | | | | U |
| | PFTrDA | 72629-94-8 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.173 | | | | U |
| | PFTeDA | 376-06-7 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.130 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824039 | <LOQ (0.446) | | 0.402 | 0.446 | 0.0964 | | | | U |
| | PFPeS | 2706-91-4 | P010824039 | <LOQ (0.474) | | 0.426 | 0.474 | 0.129 | | | | U |
| | PFHxS | 355-46-4 | P010824039 | <LOQ (0.460) | MM1* | 0.414 | 0.460 | 0.194 | | | | U |
| | PFHpS | 375-92-8 | P010824039 | <LOQ (0.480) | | 0.432 | 0.480 | 0.166 | | | | U |
| | PFOS | 1763-23-1 | P010824039 | 0.747 | MM2* | 0.420 | 0.467 | 0.177 | | | | |
| | PFNS | 68259-12-1 | P010824039 | <LOQ (0.484) | | 0.436 | 0.484 | 0.118 | | | | U |
| | PFDS | 335-77-3 | P010824039 | <LOQ (0.486) | | 0.437 | 0.486 | 0.0438 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824039 | <LOQ (1.89) | | 1.70 | 1.89 | 0.790 | | | | U |
| | PFDoS | 79780-39-5 | P010824039 | <LOQ (0.488) | | 0.439 | 0.488 | 0.121 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824039 | <LOQ (1.91) | | 1.72 | 1.91 | 0.476 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824039 | <LOQ (1.93) | | 1.74 | 1.93 | 1.21 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824039 | <LOQ (0.503) | MM1* | 0.453 | 0.503 | 0.0476 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.138 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.345 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824039 | <LOQ (5.03) | | 4.53 | 5.03 | 0.798 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824039 | <LOQ (5.03) | | 4.53 | 5.03 | 0.677 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824039 | <LOQ (2.01) | | 1.81 | 2.01 | 0.584 | | | | U |
| | PFMBA | 863090-89-5 | P010824039 | <LOQ (1.01) | | 0.906 | 1.01 | 0.412 | | | | U |
| | PFMPA | 377-73-1 | P010824039 | <LOQ (1.01) | | 0.906 | 1.01 | 0.189 | | | | U |
| | NFDHA | 151772-58-6 | P010824039 | <LOQ (1.01) | | 0.906 | 1.01 | 0.508 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824039 | <LOQ (2.52) | | 2.26 | 2.52 | 0.299 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824039 | <LOQ (2.52) | | 2.26 | 2.52 | 0.735 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824039 | <LOQ (2.52) | | 2.26 | 2.52 | 0.508 | | | | U |
| Other | ADONA | 919005-14-4 | P010824039 | <LOQ (1.90) | | 1.71 | 1.90 | 0.423 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824039 | <LOQ (1.88) | | 1.69 | 1.88 | 0.536 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824039 | <LOQ (0.503) | | 0.453 | 0.503 | 0.257 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824039 | <LOQ (1.90) | | 1.71 | 1.90 | 0.428 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824039 | <LOQ (0.503) | MM2* | 0.453 | 0.503 | 0.244 | | | | U |
| | PFEESA | 113507-82-7 | P010824039 | <LOQ (0.896) | | 0.806 | 0.896 | 0.159 | | | | U |
| ES | M4PFBA | | P010824039 | | bb | | | | 100 | 8-130% | 70.1% | |
| | M5PFPeA | | P010824039 | | bs | | | | 50.0 | 35-130% | 95.5% | |
| | M5PFHxA | | P010824039 | | bs | | | | 25.0 | 40-130% | 94.9% | |
| | M4PFHpA | | P010824039 | | bb | | | | 25.0 | 40-130% | 91.4% | |
| | M8PFOA | | P010824039 | | bs | | | | 25.0 | 40-130% | 88.2% | |
| | M9PFNA | | P010824039 | | bb | | | | 12.5 | 40-130% | 87.9% | |
| | M6PFDA | | P010824039 | | bb | | | | 12.5 | 40-130% | 83.5% | |
| | M7PFUdA | | P010824039 | | bb | | | | 12.5 | 40-130% | 75.3% | |
| | M2-PFDoA | | P010824039 | | bb | | | | 12.5 | 40-130% | 81.4% | |
| | 13C2-PFTeDA | | P010824039 | | bb | | | | 12.5 | 20-130% | 77.1% | |
| | M3PFBS | | P010824039 | | bb | | | | 23.3 | 40-135% | 99.8% | |
| | M3PFHxS | | P010824039 | | bb | | | | 23.7 | 40-130% | 93.5% | |
| | M8PFOS | | P010824039 | | bb | | | | 24.0 | 40-130% | 86.6% | |
| | M2-4:2 FTS | | P010824039 | | bb | | | | 46.9 | 40-165% | 89.2% | |
| | M2-6:2 FTS | | P010824039 | | bb | | | | 47.6 | 40-215% | 76.0% | |
| | M2-8:2 FTS | | P010824039 | | bb | | | | 48.0 | 40-275% | 88.3% | |
| | M8PFOSA | | P010824039 | | bs | | | | 25.0 | 40-130% | 79.3% | |
| | d3-N-MeFOSA | | P010824039 | | bb | | | | 25.0 | 10-130% | 52.6% | |
| | d5-N-EtFOSA | | P010824039 | | bb | | | | 25.0 | 10-130% | 49.0% | |
| | d3-N-MeFOSAA | | P010824039 | | bb | | | | 50.0 | 40-135% | 94.4% | |
| | d5-N-EtFOSAA | | P010824039 | | bb | | | | 50.0 | 40-150% | 94.3% | |
| | d7-N-MeFOSE | | P010824039 | | bb | | | | 250 | 20-130% | 60.3% | |
| | d9-N-EtFOSE | | P010824039 | | bb | | | | 250 | 15-130% | 56.7% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LS2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-011-1A | Prep Batch | EU17844 | Tare Weight (g) | 1.003 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.51 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 3.17 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.507 |
| AnalysisDate | 2024-08-02 04:45 | Split Factor | N/A | Dry Weight (g) | 3.17 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 39.3% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.99 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824039 | | bs | | | | 100 | 40-130% | 110.4% | |
| JS | M3PFBA | | P010824039 | | bb | | | | 50.0 | >30% | 99.7% | |
| | M2-PFHxA | | P010824039 | | bb | | | | 25.0 | >30% | 99.5% | |
| | M4-PFOA | | P010824039 | | bb | | | | 25.0 | >30% | 101.4% | |
| | M5-PFNA | | P010824039 | | bb | | | | 12.5 | >30% | 83.3% | |
| | M2-PFDA | | P010824039 | | bb | | | | 12.5 | >30% | 99.9% | |
| | 18O2PFHxS | | P010824039 | | bb | | | | 23.7 | >30% | 109.1% | |
| | M4-PFOS | | P010824039 | | bb | | | | 24.0 | >30% | 104.2% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_LS2 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-011-1B | Prep Batch | EU17914 | Tare Weight (g) | 1.03 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.51 |
| Sampling Date | 2024-07-17 11:40 | Instrument | Pippin | Dry Weight (g) | 3.17 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.1 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.48 |
| AnalysisDate | 2024-08-07 22:33 | Split Factor | N/A | Dry Weight (g) | 3.17 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 39.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.99 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824022 | <LOQ (2.01) | MM1* | 1.81 | 2.01 | 0.472 | | | | U |
| | PFDA | 335-76-2 | P070824022 | <LOQ (0.502) | MM1* | 0.452 | 0.502 | 0.229 | | | | U |
| | PFUnDA | 2058-94-8 | P070824022 | <LOQ (0.502) | | 0.452 | 0.502 | 0.170 | | | | U |
| | PFDoA | 307-55-1 | P070824022 | <LOQ (0.502) | | 0.452 | 0.502 | 0.170 | | | | U |
| | PFTrDA | 72629-94-8 | P070824022 | <LOQ (0.502) | | 0.452 | 0.502 | 0.173 | | | | U |
| | PFTeDA | 376-06-7 | P070824022 | <LOQ (0.502) | | 0.452 | 0.502 | 0.129 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824022 | <LOQ (0.445) | MM1* | 0.401 | 0.445 | 0.0962 | | | | U |
| | PFHpS | 375-92-8 | P070824022 | <LOQ (0.479) | | 0.431 | 0.479 | 0.166 | | | | U |
| | PFOS | 1763-23-1 | P070824022 | 0.724 | MM2* | 0.419 | 0.466 | 0.177 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824022 | <LOQ (1.93) | | 1.74 | 1.93 | 1.21 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824022 | <LOQ (0.502) | MM1* | 0.452 | 0.502 | 0.0474 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824022 | <LOQ (5.02) | | 4.52 | 5.02 | 0.796 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824022 | <LOQ (5.02) | | 4.52 | 5.02 | 0.675 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824022 | <LOQ (2.01) | | 1.81 | 2.01 | 0.582 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824022 | <LOQ (2.51) | | 2.26 | 2.51 | 0.507 | | | | U |
| Other | ADONA | 919005-14-4 | P070824022 | <LOQ (1.90) | | 1.71 | 1.90 | 0.422 | | | | U |
| ES | M4PFBA | | P070824022 | | bb | | | | 100 | 8-130% | 77.7% | |
| | M5PFHxA | | P070824022 | | bb | | | | 25.0 | 40-130% | 79.4% | |
| | M6PFDA | | P070824022 | | bb | | | | 12.5 | 40-130% | 79.3% | |
| | M7PFUdA | | P070824022 | | bb | | | | 12.5 | 40-130% | 66.5% | |
| | M2-PFDoA | | P070824022 | | bb | | | | 12.5 | 40-130% | 76.5% | |
| | 13C2-PFTeDA | | P070824022 | | bb | | | | 12.5 | 20-130% | 69.5% | |
| | M3PFBS | | P070824022 | | bb | | | | 23.3 | 40-135% | 82.5% | |
| | M8PFOS | | P070824022 | | bb | | | | 24.0 | 40-130% | 76.4% | |
| | M2-8:2 FTS | | P070824022 | | bb | | | | 48.0 | 40-275% | 70.8% | |
| | M8PFOSA | | P070824022 | | bs | | | | 25.0 | 40-130% | 76.4% | |
| | d7-N-MeFOSE | | P070824022 | | bb | | | | 250 | 20-130% | 71.4% | |
| | d9-N-EtFOSE | | P070824022 | | bb | | | | 250 | 15-130% | 68.4% | |
| | M3HFPO-DA | | P070824022 | | bb | | | | 100 | 40-130% | 96.7% | |
| JS | M3PFBA | | P070824022 | | bb | | | | 50.0 | >30% | 114.1% | |
| | M2-PFHxA | | P070824022 | | bb | | | | 25.0 | >30% | 108.7% | |
| | M2-PFDA | | P070824022 | | bb | | | | 12.5 | >30% | 109.7% | |
| | M4-PFOS | | P070824022 | | bb | | | | 24.0 | >30% | 127.3% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-013-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.88 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 1.6 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.09 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.89 |
| AnalysisDate | 2024-08-02 05:08 | Split Factor | N/A | Dry Weight (g) | 1.6 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.45 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824040 | <LOQ (8.88) | MM1* | 7.99 | 8.88 | 2.09 | | | | U |
| | PFPeA | 2706-90-3 | P010824040 | <LOQ (4.44) | MM1* | 3.99 | 4.44 | 0.698 | | | | U |
| | PFHxA | 307-24-4 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.732 | | | | U |
| | PFHpA | 375-85-9 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.669 | | | | U |
| | PFOA | 335-67-1 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.544 | | | | U |
| | PFNA | 375-95-1 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.425 | | | | U |
| | PFDA | 335-76-2 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 1.01 | | | | U |
| | PFUnDA | 2058-94-8 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.750 | | | | U |
| | PFDoA | 307-55-1 | P010824040 | <LOQ (2.22) | MM1* | 2.00 | 2.22 | 0.750 | | | | U |
| | PFTrDA | 72629-94-8 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 0.763 | | | | U |
| | PFTeDA | 376-06-7 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 0.571 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824040 | <LOQ (1.97) | | 1.77 | 1.97 | 0.425 | | | | U |
| | PFPeS | 2706-91-4 | P010824040 | <LOQ (2.09) | | 1.88 | 2.09 | 0.568 | | | | U |
| | PFHxS | 355-46-4 | P010824040 | <LOQ (2.03) | MM1* | 1.83 | 2.03 | 0.858 | | | | U |
| | PFHpS | 375-92-8 | P010824040 | <LOQ (2.11) | | 1.90 | 2.11 | 0.732 | | | | U |
| | PFOS | 1763-23-1 | P010824040 | 2.93 | MM2* | 1.85 | 2.06 | 0.781 | | | | |
| | PFNS | 68259-12-1 | P010824040 | <LOQ (2.13) | | 1.92 | 2.13 | 0.519 | | | | U |
| | PFDS | 335-77-3 | P010824040 | <LOQ (2.14) | | 1.93 | 2.14 | 0.193 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824040 | <LOQ (8.32) | | 7.49 | 8.32 | 3.48 | | | | U |
| | PFDoS | 79780-39-5 | P010824040 | <LOQ (2.15) | | 1.94 | 2.15 | 0.534 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824040 | <LOQ (8.43) | MM1* | 7.59 | 8.43 | 2.10 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824040 | <LOQ (8.52) | | 7.67 | 8.52 | 5.34 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 0.210 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 0.610 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 1.52 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824040 | <LOQ (22.2) | | 20.0 | 22.2 | 3.52 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824040 | <LOQ (22.2) | | 20.0 | 22.2 | 2.98 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824040 | <LOQ (8.88) | | 7.99 | 8.88 | 2.57 | | | | U |
| | PFMBA | 863090-89-5 | P010824040 | <LOQ (4.44) | | 3.99 | 4.44 | 1.81 | | | | U |
| | PFMPA | 377-73-1 | P010824040 | <LOQ (4.44) | | 3.99 | 4.44 | 0.833 | | | | U |
| | NFDHA | 151772-58-6 | P010824040 | <LOQ (4.44) | | 3.99 | 4.44 | 2.24 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824040 | <LOQ (11.1) | | 9.99 | 11.1 | 1.32 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824040 | <LOQ (11.1) | | 9.99 | 11.1 | 3.24 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824040 | <LOQ (11.1) | | 9.99 | 11.1 | 2.24 | | | | U |
| Other | ADONA | 919005-14-4 | P010824040 | <LOQ (8.39) | | 7.55 | 8.39 | 1.86 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824040 | <LOQ (8.30) | | 7.47 | 8.30 | 2.36 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824040 | <LOQ (2.22) | | 2.00 | 2.22 | 1.13 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824040 | <LOQ (8.39) | | 7.55 | 8.39 | 1.89 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824040 | <LOQ (2.22) | MM2* | 2.00 | 2.22 | 1.07 | | | | U |
| | PFEESA | 113507-82-7 | P010824040 | <LOQ (3.95) | | 3.55 | 3.95 | 0.701 | | | | U |
| ES | M4PFBA | | P010824040 | | bb | | | | 100 | 8-130% | 92.7% | |
| | M5PFPeA | | P010824040 | | bs | | | | 50.0 | 35-130% | 92.1% | |
| | M5PFHxA | | P010824040 | | bb | | | | 25.0 | 40-130% | 93.8% | |
| | M4PFHpA | | P010824040 | | bb | | | | 25.0 | 40-130% | 89.6% | |
| | M8PFOA | | P010824040 | | bs | | | | 25.0 | 40-130% | 88.1% | |
| | M9PFNA | | P010824040 | | bb | | | | 12.5 | 40-130% | 89.8% | |
| | M6PFDA | | P010824040 | | bb | | | | 12.5 | 40-130% | 89.8% | |
| | M7PFUdA | | P010824040 | | bb | | | | 12.5 | 40-130% | 81.0% | |
| | M2-PFDoA | | P010824040 | | bb | | | | 12.5 | 40-130% | 84.9% | |
| | 13C2-PFTeDA | | P010824040 | | bb | | | | 12.5 | 20-130% | 80.5% | |
| | M3PFBS | | P010824040 | | bb | | | | 23.3 | 40-135% | 93.1% | |
| | M3PFHxS | | P010824040 | | bb | | | | 23.7 | 40-130% | 94.9% | |
| | M8PFOS | | P010824040 | | bb | | | | 24.0 | 40-130% | 85.9% | |
| | M2-4:2 FTS | | P010824040 | | bb | | | | 46.9 | 40-165% | 81.4% | |
| | M2-6:2 FTS | | P010824040 | | bb | | | | 47.6 | 40-215% | 71.4% | |
| | M2-8:2 FTS | | P010824040 | | bb | | | | 48.0 | 40-275% | 96.5% | |
| | M8PFOSA | | P010824040 | | bb | | | | 25.0 | 40-130% | 75.3% | |
| | d3-N-MeFOSA | | P010824040 | | bb | | | | 25.0 | 10-130% | 50.1% | |
| | d5-N-EtFOSA | | P010824040 | | bb | | | | 25.0 | 10-130% | 48.4% | |
| | d3-N-MeFOSAA | | P010824040 | | bb | | | | 50.0 | 40-135% | 90.8% | |
| | d5-N-EtFOSAA | | P010824040 | | bs | | | | 50.0 | 40-150% | 99.4% | |
| | d7-N-MeFOSE | | P010824040 | | bb | | | | 250 | 20-130% | 64.7% | |
| | d9-N-EtFOSE | | P010824040 | | bb | | | | 250 | 15-130% | 61.3% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-013-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.88 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 1.6 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.09 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.89 |
| AnalysisDate | 2024-08-02 05:08 | Split Factor | N/A | Dry Weight (g) | 1.6 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.45 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824040 | | bb | | | | 100 | 40-130% | 107.4% | |
| JS | M3PFBA | | P010824040 | | bb | | | | 50.0 | >30% | 94.3% | |
| | M2-PFHxA | | P010824040 | | bb | | | | 25.0 | >30% | 93.0% | |
| | M4-PFOA | | P010824040 | | bs | | | | 25.0 | >30% | 95.2% | |
| | M5-PFNA | | P010824040 | | bb | | | | 12.5 | >30% | 78.8% | |
| | M2-PFDA | | P010824040 | | bb | | | | 12.5 | >30% | 91.0% | |
| | 18O2PFHxS | | P010824040 | | bb | | | | 23.7 | >30% | 100.3% | |
| | M4-PFOS | | P010824040 | | bb | | | | 24.0 | >30% | 102.9% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-013-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.99 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.88 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 1.6 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.07 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 6.89 |
| AnalysisDate | 2024-08-07 22:55 | Split Factor | N/A | Dry Weight (g) | 1.6 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 8.9% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.45 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824023 | <LOQ (8.91) | MM1* | 8.02 | 8.91 | 2.09 | | | | U |
| | PFDA | 335-76-2 | P070824023 | <LOQ (2.23) | MM1* | 2.01 | 2.23 | 1.01 | | | | U |
| | PFUnDA | 2058-94-8 | P070824023 | <LOQ (2.23) | MM1* | 2.01 | 2.23 | 0.753 | | | | U |
| | PFDoA | 307-55-1 | P070824023 | <LOQ (2.23) | MM1* | 2.01 | 2.23 | 0.753 | | | | U |
| | PFTrDA | 72629-94-8 | P070824023 | <LOQ (2.23) | | 2.01 | 2.23 | 0.766 | | | | U |
| | PFTeDA | 376-06-7 | P070824023 | <LOQ (2.23) | | 2.01 | 2.23 | 0.574 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824023 | <LOQ (1.98) | | 1.78 | 1.98 | 0.427 | | | | U |
| | PFHpS | 375-92-8 | P070824023 | <LOQ (2.12) | | 1.91 | 2.12 | 0.735 | | | | U |
| | PFOS | 1763-23-1 | P070824023 | 2.88 | MM2* | 1.86 | 2.07 | 0.784 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824023 | <LOQ (8.55) | | 7.70 | 8.55 | 5.36 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824023 | <LOQ (2.23) | | 2.01 | 2.23 | 0.211 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824023 | <LOQ (22.3) | | 20.1 | 22.3 | 3.53 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824023 | <LOQ (22.3) | | 20.1 | 22.3 | 3.00 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824023 | <LOQ (8.91) | | 8.02 | 8.91 | 2.58 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824023 | <LOQ (11.1) | | 10.0 | 11.1 | 2.25 | | | | U |
| Other | ADONA | 919005-14-4 | P070824023 | <LOQ (8.42) | | 7.58 | 8.42 | 1.87 | | | | U |
| ES | M4PFBA | | P070824023 | | bb | | | | 100 | 8-130% | 83.2% | |
| | M5PFHxA | | P070824023 | | bb | | | | 25.0 | 40-130% | 85.2% | |
| | M6PFDA | | P070824023 | | bb | | | | 12.5 | 40-130% | 80.8% | |
| | M7PFUdA | | P070824023 | | bb | | | | 12.5 | 40-130% | 71.1% | |
| | M2-PFDoA | | P070824023 | | bb | | | | 12.5 | 40-130% | 81.5% | |
| | 13C2-PFTeDA | | P070824023 | | bb | | | | 12.5 | 20-130% | 75.7% | |
| | M3PFBS | | P070824023 | | bb | | | | 23.3 | 40-135% | 89.8% | |
| | M8PFOS | | P070824023 | | bb | | | | 24.0 | 40-130% | 73.3% | |
| | M2-8:2 FTS | | P070824023 | | bb | | | | 48.0 | 40-275% | 76.9% | |
| | M8PFOSA | | P070824023 | | bb | | | | 25.0 | 40-130% | 76.6% | |
| | d7-N-MeFOSE | | P070824023 | | bb | | | | 250 | 20-130% | 77.8% | |
| | d9-N-EtFOSE | | P070824023 | | bb | | | | 250 | 15-130% | 74.3% | |
| | M3HFPO-DA | | P070824023 | | bb | | | | 100 | 40-130% | 101.7% | |
| JS | M3PFBA | | P070824023 | | bb | | | | 50.0 | >30% | 108.0% | |
| | M2-PFHxA | | P070824023 | | bb | | | | 25.0 | >30% | 101.2% | |
| | M2-PFDA | | P070824023 | | bb | | | | 12.5 | >30% | 105.1% | |
| | M4-PFOS | | P070824023 | | bb | | | | 24.0 | >30% | 126.1% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-014-1A | Prep Batch | EU17844 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.63 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 2.32 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.15 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.63 |
| AnalysisDate | 2024-08-02 06:16 | Split Factor | N/A | Dry Weight (g) | 2.32 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 23.4% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.21 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824043 | <LOQ (3.31) | MM1* | 2.98 | 3.31 | 0.778 | | | | U |
| | PFPeA | 2706-90-3 | P010824043 | <LOQ (1.66) | MM1* | 1.49 | 1.66 | 0.260 | | | | U |
| | PFHxA | 307-24-4 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.273 | | | | U |
| | PFHpA | 375-85-9 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.250 | | | | U |
| | PFOA | 335-67-1 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.203 | | | | U |
| | PFNA | 375-95-1 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.159 | | | | U |
| | PFDA | 335-76-2 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.377 | | | | U |
| | PFUnDA | 2058-94-8 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.280 | | | | U |
| | PFDoA | 307-55-1 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.280 | | | | U |
| | PFTrDA | 72629-94-8 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.285 | | | | U |
| | PFTeDA | 376-06-7 | P010824043 | <LOQ (0.828) | | 0.745 | 0.828 | 0.213 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824043 | <LOQ (0.734) | MM1* | 0.661 | 0.734 | 0.159 | | | | U |
| | PFPeS | 2706-91-4 | P010824043 | <LOQ (0.779) | | 0.701 | 0.779 | 0.212 | | | | U |
| | PFHxS | 355-46-4 | P010824043 | <LOQ (0.757) | MM1* | 0.681 | 0.757 | 0.320 | | | | U |
| | PFHpS | 375-92-8 | P010824043 | <LOQ (0.789) | | 0.710 | 0.789 | 0.273 | | | | U |
| | PFOS | 1763-23-1 | P010824043 | 3.48 | MM2* | 0.692 | 0.769 | 0.292 | | | | |
| | PFNS | 68259-12-1 | P010824043 | <LOQ (0.797) | | 0.717 | 0.797 | 0.194 | | | | U |
| | PFDS | 335-77-3 | P010824043 | <LOQ (0.799) | MM1* | 0.719 | 0.799 | 0.0721 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824043 | <LOQ (3.11) | | 2.80 | 3.11 | 1.30 | | | | U |
| | PFDoS | 79780-39-5 | P010824043 | <LOQ (0.803) | | 0.723 | 0.803 | 0.199 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824043 | <LOQ (3.15) | MM1* | 2.83 | 3.15 | 0.783 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824043 | <LOQ (3.18) | | 2.86 | 3.18 | 1.99 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824043 | <LOQ (0.828) | MM1* | 0.745 | 0.828 | 0.0783 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824043 | <LOQ (0.828) | | 0.745 | 0.828 | 0.228 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824043 | <LOQ (0.828) | | 0.745 | 0.828 | 0.567 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824043 | <LOQ (8.28) | | 7.45 | 8.28 | 1.31 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824043 | <LOQ (8.28) | | 7.45 | 8.28 | 1.11 | | | | U |
| Other | ADONA | 919005-14-4 | P010824043 | <LOQ (3.13) | | 2.82 | 3.13 | 0.696 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824043 | <LOQ (3.10) | | 2.79 | 3.10 | 0.882 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824043 | <LOQ (0.828) | MM2* | 0.745 | 0.828 | 0.422 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824043 | <LOQ (3.13) | | 2.82 | 3.13 | 0.704 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824043 | 2.31 | MM2* | 0.745 | 0.828 | 0.401 | | | | |
| | PFEESA | 113507-82-7 | P010824043 | <LOQ (1.47) | | 1.33 | 1.47 | 0.262 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824043 | <LOQ (3.31) | | 2.98 | 3.31 | 0.961 | | | | U |
| | PFMBA | 863090-89-5 | P010824043 | <LOQ (1.66) | | 1.49 | 1.66 | 0.677 | | | | U |
| | PFMPA | 377-73-1 | P010824043 | <LOQ (1.66) | | 1.49 | 1.66 | 0.311 | | | | U |
| | NFDHA | 151772-58-6 | P010824043 | <LOQ (1.66) | MM1* | 1.49 | 1.66 | 0.836 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824043 | <LOQ (4.14) | | 3.73 | 4.14 | 0.493 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824043 | <LOQ (4.14) | | 3.73 | 4.14 | 1.21 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824043 | <LOQ (4.14) | | 3.73 | 4.14 | 0.836 | | | | U |
| ES | M4PFBA | | P010824043 | | bb | | | | 100 | 8-130% | 90.1% | |
| | M5PFPeA | | P010824043 | | bs | | | | 50.0 | 35-130% | 91.3% | |
| | M5PFHxA | | P010824043 | | bb | | | | 25.0 | 40-130% | 90.3% | |
| | M4PFHpA | | P010824043 | | bs | | | | 25.0 | 40-130% | 92.3% | |
| | M8PFOA | | P010824043 | | bs | | | | 25.0 | 40-130% | 87.1% | |
| | M9PFNA | | P010824043 | | bb | | | | 12.5 | 40-130% | 84.9% | |
| | M6PFDA | | P010824043 | | bb | | | | 12.5 | 40-130% | 83.4% | |
| | M7PFUdA | | P010824043 | | bs | | | | 12.5 | 40-130% | 77.5% | |
| | M2-PFDoA | | P010824043 | | bs | | | | 12.5 | 40-130% | 81.1% | |
| | 13C2-PFTeDA | | P010824043 | | bb | | | | 12.5 | 20-130% | 77.8% | |
| | M3PFBS | | P010824043 | | bb | | | | 23.3 | 40-135% | 96.8% | |
| | M3PFHxS | | P010824043 | | bb | | | | 23.7 | 40-130% | 86.9% | |
| | M8PFOS | | P010824043 | | bb | | | | 24.0 | 40-130% | 83.8% | |
| | M2-4:2 FTS | | P010824043 | | bs | | | | 46.9 | 40-165% | 94.4% | |
| | M2-6:2 FTS | | P010824043 | | bb | | | | 47.6 | 40-215% | 81.3% | |
| | M2-8:2 FTS | | P010824043 | | bs | | | | 48.0 | 40-275% | 111.0% | |
| | M8PFOSA | | P010824043 | | bs | | | | 25.0 | 40-130% | 78.8% | |
| | d3-N-MeFOSA | | P010824043 | | bb | | | | 25.0 | 10-130% | 50.3% | |
| | d5-N-EtFOSA | | P010824043 | | bb | | | | 25.0 | 10-130% | 51.6% | |
| | d3-N-MeFOSAA | | P010824043 | | bs | | | | 50.0 | 40-135% | 108.5% | |
| | d5-N-EtFOSAA | | P010824043 | | bb | | | | 50.0 | 40-150% | 109.0% | |
| | d7-N-MeFOSE | | P010824043 | | bb | | | | 250 | 20-130% | 63.5% | |
| | d9-N-EtFOSE | | P010824043 | | bb | | | | 250 | 15-130% | 59.5% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-014-1A | Prep Batch | EU17844 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.63 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 2.32 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.15 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.63 |
| AnalysisDate | 2024-08-02 06:16 | Split Factor | N/A | Dry Weight (g) | 2.32 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 23.4% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.21 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824043 | | bs | | | | 100 | 40-130% | 102.4% | |
| JS | M3PFBA | | P010824043 | | bb | | | | 50.0 | >30% | 101.5% | |
| | M2-PFHxA | | P010824043 | | bs | | | | 25.0 | >30% | 99.7% | |
| | M4-PFOA | | P010824043 | | bb | | | | 25.0 | >30% | 102.4% | |
| | M5-PFNA | | P010824043 | | bb | | | | 12.5 | >30% | 89.2% | |
| | M2-PFDA | | P010824043 | | bb | | | | 12.5 | >30% | 105.5% | |
| | 18O2PFHxS | | P010824043 | | bb | | | | 23.7 | >30% | 118.1% | |
| | M4-PFOS | | P010824043 | | bb | | | | 24.0 | >30% | 110.1% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-014-1B | Prep Batch | EU17914 | Tare Weight (g) | 1 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.63 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 2.32 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.02 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.63 |
| AnalysisDate | 2024-08-08 00:04 | Split Factor | N/A | Dry Weight (g) | 2.32 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 23.4% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 1.18 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824026 | <LOQ (3.40) | MM1* | 3.06 | 3.40 | 0.799 | | | | U |
| | PFDA | 335-76-2 | P070824026 | <LOQ (0.850) | MM1* | 0.765 | 0.850 | 0.387 | | | | U |
| | PFUnDA | 2058-94-8 | P070824026 | <LOQ (0.850) | MM1* | 0.765 | 0.850 | 0.287 | | | | U |
| | PFDoA | 307-55-1 | P070824026 | <LOQ (0.850) | MM1* | 0.765 | 0.850 | 0.287 | | | | U |
| | PFTrDA | 72629-94-8 | P070824026 | <LOQ (0.850) | MM1* | 0.765 | 0.850 | 0.292 | | | | U |
| | PFTeDA | 376-06-7 | P070824026 | <LOQ (0.850) | | 0.765 | 0.850 | 0.219 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824026 | <LOQ (0.753) | | 0.678 | 0.753 | 0.163 | | | | U |
| | PFHpS | 375-92-8 | P070824026 | <LOQ (0.810) | | 0.729 | 0.810 | 0.280 | | | | U |
| | PFOS | 1763-23-1 | P070824026 | 2.98 | MM2* | 0.710 | 0.788 | 0.299 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824026 | <LOQ (3.26) | | 2.94 | 3.26 | 2.04 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824026 | <LOQ (0.850) | MM1* | 0.765 | 0.850 | 0.0803 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824026 | <LOQ (8.50) | | 7.65 | 8.50 | 1.35 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824026 | <LOQ (8.50) | | 7.65 | 8.50 | 1.14 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824026 | <LOQ (3.40) | | 3.06 | 3.40 | 0.986 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824026 | <LOQ (4.25) | | 3.82 | 4.25 | 0.858 | | | | U |
| Other | ADONA | 919005-14-4 | P070824026 | <LOQ (3.21) | | 2.89 | 3.21 | 0.714 | | | | U |
| ES | M4PFBA | | P070824026 | | bb | | | | 100 | 8-130% | 84.1% | |
| | M5PFHxA | | P070824026 | | bs | | | | 25.0 | 40-130% | 86.7% | |
| | M6PFDA | | P070824026 | | bb | | | | 12.5 | 40-130% | 81.1% | |
| | M7PFUdA | | P070824026 | | bb | | | | 12.5 | 40-130% | 73.9% | |
| | M2-PFDoA | | P070824026 | | bb | | | | 12.5 | 40-130% | 79.3% | |
| | 13C2-PFTeDA | | P070824026 | | bb | | | | 12.5 | 20-130% | 72.6% | |
| | M3PFBS | | P070824026 | | bb | | | | 23.3 | 40-135% | 91.8% | |
| | M8PFOS | | P070824026 | | bs | | | | 24.0 | 40-130% | 78.3% | |
| | M2-8:2 FTS | | P070824026 | | bb | | | | 48.0 | 40-275% | 85.9% | |
| | M8PFOSA | | P070824026 | | bb | | | | 25.0 | 40-130% | 76.4% | |
| | d7-N-MeFOSE | | P070824026 | | bb | | | | 250 | 20-130% | 76.8% | |
| | d9-N-EtFOSE | | P070824026 | | bb | | | | 250 | 15-130% | 74.3% | |
| | M3HFPO-DA | | P070824026 | | bb | | | | 100 | 40-130% | 101.3% | |
| JS | M3PFBA | | P070824026 | | bb | | | | 50.0 | >30% | 108.0% | |
| | M2-PFHxA | | P070824026 | | bb | | | | 25.0 | >30% | 104.1% | |
| | M2-PFDA | | P070824026 | | bb | | | | 12.5 | >30% | 105.8% | |
| | M4-PFOS | | P070824026 | | bb | | | | 24.0 | >30% | 123.3% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-015-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.56 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 5.26 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.14 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-02 06:39 | Split Factor | N/A | Dry Weight (g) | 5.26 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 76.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.94 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824044 | <LOQ (1.01) | MM1* | 0.913 | 1.01 | 0.238 | | | | U |
| | PFPeA | 2706-90-3 | P010824044 | <LOQ (0.507) | MM1* | 0.457 | 0.507 | 0.0798 | | | | U |
| | PFHxA | 307-24-4 | P010824044 | <LOQ (0.254) | MM1* | 0.228 | 0.254 | 0.0837 | | | | U |
| | PFHpA | 375-85-9 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0765 | | | | U |
| | PFOA | 335-67-1 | P010824044 | <LOQ (0.254) | MM1* | 0.228 | 0.254 | 0.0621 | | | | U |
| | PFNA | 375-95-1 | P010824044 | <LOQ (0.254) | MM1* | 0.228 | 0.254 | 0.0486 | | | | U |
| | PFDA | 335-76-2 | P010824044 | <LOQ (0.254) | MM1* | 0.228 | 0.254 | 0.116 | | | | U |
| | PFUnDA | 2058-94-8 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0857 | | | | U |
| | PFDoA | 307-55-1 | P010824044 | <LOQ (0.254) | MM1* | 0.228 | 0.254 | 0.0857 | | | | U |
| | PFTrDA | 72629-94-8 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0873 | | | | U |
| | PFTeDA | 376-06-7 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0653 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824044 | <LOQ (0.225) | | 0.202 | 0.225 | 0.0486 | | | | U |
| | PFPeS | 2706-91-4 | P010824044 | <LOQ (0.239) | | 0.215 | 0.239 | 0.0649 | | | | U |
| | PFHxS | 355-46-4 | P010824044 | <LOQ (0.232) | | 0.209 | 0.232 | 0.0980 | | | | U |
| | PFHpS | 375-92-8 | P010824044 | <LOQ (0.242) | | 0.218 | 0.242 | 0.0837 | | | | U |
| | PFOS | 1763-23-1 | P010824044 | <LOQ (0.235) | MM2* | 0.212 | 0.235 | 0.0893 | | | | U |
| | PFNS | 68259-12-1 | P010824044 | <LOQ (0.244) | | 0.220 | 0.244 | 0.0594 | | | | U |
| | PFDS | 335-77-3 | P010824044 | <LOQ (0.245) | | 0.220 | 0.245 | 0.0221 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824044 | <LOQ (0.951) | | 0.856 | 0.951 | 0.398 | | | | U |
| | PFDoS | 79780-39-5 | P010824044 | <LOQ (0.246) | | 0.221 | 0.246 | 0.0610 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824044 | <LOQ (0.964) | | 0.867 | 0.964 | 0.240 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824044 | <LOQ (0.974) | | 0.877 | 0.974 | 0.610 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0240 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.0698 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.174 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824044 | <LOQ (2.54) | | 2.28 | 2.54 | 0.402 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824044 | <LOQ (2.54) | | 2.28 | 2.54 | 0.341 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824044 | <LOQ (1.01) | | 0.913 | 1.01 | 0.294 | | | | U |
| | PFMBA | 863090-89-5 | P010824044 | <LOQ (0.507) | | 0.457 | 0.507 | 0.207 | | | | U |
| | PFMPA | 377-73-1 | P010824044 | <LOQ (0.507) | | 0.457 | 0.507 | 0.0952 | | | | U |
| | NFDHA | 151772-58-6 | P010824044 | <LOQ (0.507) | | 0.457 | 0.507 | 0.256 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824044 | <LOQ (1.27) | | 1.14 | 1.27 | 0.151 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824044 | <LOQ (1.27) | | 1.14 | 1.27 | 0.370 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824044 | <LOQ (1.27) | | 1.14 | 1.27 | 0.256 | | | | U |
| Other | ADONA | 919005-14-4 | P010824044 | <LOQ (0.959) | | 0.863 | 0.959 | 0.213 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824044 | <LOQ (0.949) | | 0.854 | 0.949 | 0.270 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.129 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824044 | <LOQ (0.959) | | 0.863 | 0.959 | 0.216 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824044 | <LOQ (0.254) | | 0.228 | 0.254 | 0.123 | | | | U |
| | PFEESA | 113507-82-7 | P010824044 | <LOQ (0.451) | | 0.406 | 0.451 | 0.0802 | | | | U |
| ES | M4PFBA | | P010824044 | | bb | | | | 100 | 8-130% | 85.9% | |
| | M5PFPeA | | P010824044 | | ds | | | | 50.0 | 35-130% | 88.4% | |
| | M5PFHxA | | P010824044 | | bb | | | | 25.0 | 40-130% | 87.8% | |
| | M4PFHpA | | P010824044 | | bb | | | | 25.0 | 40-130% | 92.8% | |
| | M8PFOA | | P010824044 | | bs | | | | 25.0 | 40-130% | 82.3% | |
| | M9PFNA | | P010824044 | | bb | | | | 12.5 | 40-130% | 84.7% | |
| | M6PFDA | | P010824044 | | bb | | | | 12.5 | 40-130% | 84.8% | |
| | M7PFUdA | | P010824044 | | bb | | | | 12.5 | 40-130% | 76.6% | |
| | M2-PFDoA | | P010824044 | | bs | | | | 12.5 | 40-130% | 82.3% | |
| | 13C2-PFTeDA | | P010824044 | | bb | | | | 12.5 | 20-130% | 71.4% | |
| | M3PFBS | | P010824044 | | bb | | | | 23.3 | 40-135% | 89.6% | |
| | M3PFHxS | | P010824044 | | bs | | | | 23.7 | 40-130% | 78.7% | |
| | M8PFOS | | P010824044 | | bb | | | | 24.0 | 40-130% | 80.7% | |
| | M2-4:2 FTS | | P010824044 | | bb | | | | 46.9 | 40-165% | 74.3% | |
| | M2-6:2 FTS | | P010824044 | | bb | | | | 47.6 | 40-215% | 68.0% | |
| | M2-8:2 FTS | | P010824044 | | bb | | | | 48.0 | 40-275% | 69.6% | |
| | M8PFOSA | | P010824044 | | bs | | | | 25.0 | 40-130% | 70.8% | |
| | d3-N-MeFOSA | | P010824044 | | bb | | | | 25.0 | 10-130% | 28.5% | |
| | d5-N-EtFOSA | | P010824044 | | bb | | | | 25.0 | 10-130% | 24.6% | |
| | d3-N-MeFOSAA | | P010824044 | | bs | | | | 50.0 | 40-135% | 80.8% | |
| | d5-N-EtFOSAA | | P010824044 | | bs | | | | 50.0 | 40-150% | 80.4% | |
| | d7-N-MeFOSE | | P010824044 | | bb | | | | 250 | 20-130% | 50.5% | |
| | d9-N-EtFOSE | | P010824044 | | bb | | | | 250 | 15-130% | 45.1% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-015-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.56 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 5.26 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.14 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-02 06:39 | Split Factor | N/A | Dry Weight (g) | 5.26 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 76.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.94 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824044 | | bb | | | | 100 | 40-130% | 104.0% | |
| JS | M3PFBA | | P010824044 | | bb | | | | 50.0 | >30% | 96.0% | |
| | M2-PFHxA | | P010824044 | | bb | | | | 25.0 | >30% | 92.6% | |
| | M4-PFOA | | P010824044 | | bb | | | | 25.0 | >30% | 96.5% | |
| | M5-PFNA | | P010824044 | | bb | | | | 12.5 | >30% | 80.6% | |
| | M2-PFDA | | P010824044 | | bb | | | | 12.5 | >30% | 92.9% | |
| | 18O2PFHxS | | P010824044 | | bs | | | | 23.7 | >30% | 110.3% | |
| | M4-PFOS | | P010824044 | | bb | | | | 24.0 | >30% | 104.0% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand3 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-015-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.56 |
| Sampling Date | 2024-07-17 12:15 | Instrument | Pippin | Dry Weight (g) | 5.26 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.01 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.58 |
| AnalysisDate | 2024-08-08 00:26 | Split Factor | N/A | Dry Weight (g) | 5.26 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 76.7% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.84 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824027 | <LOQ (1.04) | MM1* | 0.937 | 1.04 | 0.245 | | | | U |
| | PFDA | 335-76-2 | P070824027 | <LOQ (0.260) | MM1* | 0.234 | 0.260 | 0.119 | | | | U |
| | PFUnDA | 2058-94-8 | P070824027 | <LOQ (0.260) | | 0.234 | 0.260 | 0.0880 | | | | U |
| | PFDoA | 307-55-1 | P070824027 | <LOQ (0.260) | | 0.234 | 0.260 | 0.0880 | | | | U |
| | PFTrDA | 72629-94-8 | P070824027 | <LOQ (0.260) | | 0.234 | 0.260 | 0.0895 | | | | U |
| | PFTeDA | 376-06-7 | P070824027 | <LOQ (0.260) | | 0.234 | 0.260 | 0.0670 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824027 | <LOQ (0.231) | | 0.208 | 0.231 | 0.0498 | | | | U |
| | PFHpS | 375-92-8 | P070824027 | <LOQ (0.248) | | 0.223 | 0.248 | 0.0859 | | | | U |
| | PFOS | 1763-23-1 | P070824027 | <LOQ (0.241) | bb | 0.217 | 0.241 | 0.0916 | | | | U |
| | 8:2 FTS | 39108-34-4 | P070824027 | <LOQ (0.999) | | 0.899 | 0.999 | 0.626 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824027 | <LOQ (0.260) | | 0.234 | 0.260 | 0.0246 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824027 | <LOQ (2.60) | | 2.34 | 2.60 | 0.412 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824027 | <LOQ (2.60) | | 2.34 | 2.60 | 0.350 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824027 | <LOQ (1.04) | | 0.937 | 1.04 | 0.302 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824027 | <LOQ (1.30) | | 1.17 | 1.30 | 0.263 | | | | U |
| Other | ADONA | 919005-14-4 | P070824027 | <LOQ (0.984) | | 0.885 | 0.984 | 0.219 | | | | U |
| ES | M4PFBA | | P070824027 | | bb | | | | 100 | 8-130% | 78.6% | |
| | M5PFHxA | | P070824027 | | bs | | | | 25.0 | 40-130% | 77.9% | |
| | M6PFDA | | P070824027 | | bb | | | | 12.5 | 40-130% | 77.9% | |
| | M7PFUdA | | P070824027 | | bs | | | | 12.5 | 40-130% | 68.0% | |
| | M2-PFDoA | | P070824027 | | bb | | | | 12.5 | 40-130% | 74.3% | |
| | 13C2-PFTeDA | | P070824027 | | bb | | | | 12.5 | 20-130% | 66.8% | |
| | M3PFBS | | P070824027 | | bb | | | | 23.3 | 40-135% | 80.0% | |
| | M8PFOS | | P070824027 | | bb | | | | 24.0 | 40-130% | 74.8% | |
| | M2-8:2 FTS | | P070824027 | | bb | | | | 48.0 | 40-275% | 72.9% | |
| | M8PFOSA | | P070824027 | | bs | | | | 25.0 | 40-130% | 72.3% | |
| | d7-N-MeFOSE | | P070824027 | | bb | | | | 250 | 20-130% | 68.7% | |
| | d9-N-EtFOSE | | P070824027 | | bb | | | | 250 | 15-130% | 65.8% | |
| | M3HFPO-DA | | P070824027 | | bb | | | | 100 | 40-130% | 94.2% | |
| JS | M3PFBA | | P070824027 | | bb | | | | 50.0 | >30% | 113.0% | |
| | M2-PFHxA | | P070824027 | | bb | | | | 25.0 | >30% | 108.6% | |
| | M2-PFDA | | P070824027 | | bb | | | | 12.5 | >30% | 110.5% | |
| | M4-PFOS | | P070824027 | | bb | | | | 24.0 | >30% | 126.8% | |

Peak Flags MM1* MM-;r R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-019-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.15 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.98 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.08 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.17 |
| AnalysisDate | 2024-08-02 07:01 | Split Factor | N/A | Dry Weight (g) | 1.98 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 16.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.82 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824045 | <LOQ (4.86) | MM1* | 4.37 | 4.86 | 1.14 | | | | U |
| | PFPeA | 2706-90-3 | P010824045 | <LOQ (2.43) | MM1* | 2.19 | 2.43 | 0.382 | | | | U |
| | PFHxA | 307-24-4 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.401 | | | | U |
| | PFHpA | 375-85-9 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.366 | | | | U |
| | PFOA | 335-67-1 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.298 | | | | U |
| | PFNA | 375-95-1 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.233 | | | | U |
| | PFDA | 335-76-2 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.553 | | | | U |
| | PFUnDA | 2058-94-8 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.411 | | | | U |
| | PFDoA | 307-55-1 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.411 | | | | U |
| | PFTrDA | 72629-94-8 | P010824045 | <LOQ (1.21) | MM1* | 1.09 | 1.21 | 0.418 | | | | U |
| | PFTeDA | 376-06-7 | P010824045 | <LOQ (1.21) | | 1.09 | 1.21 | 0.313 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824045 | <LOQ (1.08) | | 0.969 | 1.08 | 0.233 | | | | U |
| | PFPeS | 2706-91-4 | P010824045 | <LOQ (1.14) | | 1.03 | 1.14 | 0.311 | | | | U |
| | PFHxS | 355-46-4 | P010824045 | <LOQ (1.11) | MM1* | 0.999 | 1.11 | 0.469 | | | | U |
| | PFHpS | 375-92-8 | P010824045 | <LOQ (1.16) | | 1.04 | 1.16 | 0.401 | | | | U |
| | PFOS | 1763-23-1 | P010824045 | 2.68 | MM2* | 1.01 | 1.13 | 0.428 | | | | |
| | PFNS | 68259-12-1 | P010824045 | <LOQ (1.17) | | 1.05 | 1.17 | 0.284 | | | | U |
| | PFDS | 335-77-3 | P010824045 | <LOQ (1.17) | | 1.05 | 1.17 | 0.106 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824045 | <LOQ (4.55) | | 4.10 | 4.55 | 1.91 | | | | U |
| | PFDoS | 79780-39-5 | P010824045 | <LOQ (1.18) | | 1.06 | 1.18 | 0.292 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824045 | <LOQ (4.62) | | 4.15 | 4.62 | 1.15 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824045 | <LOQ (4.66) | | 4.20 | 4.66 | 2.92 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824045 | <LOQ (1.21) | | 1.09 | 1.21 | 0.115 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824045 | <LOQ (1.21) | | 1.09 | 1.21 | 0.334 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824045 | <LOQ (1.21) | | 1.09 | 1.21 | 0.832 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824045 | <LOQ (12.1) | | 10.9 | 12.1 | 1.93 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824045 | <LOQ (12.1) | | 10.9 | 12.1 | 1.63 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824045 | <LOQ (4.86) | | 4.37 | 4.86 | 1.41 | | | | U |
| | PFMBA | 863090-89-5 | P010824045 | <LOQ (2.43) | | 2.19 | 2.43 | 0.993 | | | | U |
| | PFMPA | 377-73-1 | P010824045 | <LOQ (2.43) | | 2.19 | 2.43 | 0.456 | | | | U |
| | NFDHA | 151772-58-6 | P010824045 | <LOQ (2.43) | | 2.19 | 2.43 | 1.23 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824045 | <LOQ (6.07) | | 5.47 | 6.07 | 0.723 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824045 | <LOQ (6.07) | | 5.47 | 6.07 | 1.77 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824045 | <LOQ (6.07) | | 5.47 | 6.07 | 1.23 | | | | U |
| Other | ADONA | 919005-14-4 | P010824045 | <LOQ (4.59) | | 4.13 | 4.59 | 1.02 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824045 | <LOQ (4.54) | | 4.09 | 4.54 | 1.29 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824045 | <LOQ (1.21) | | 1.09 | 1.21 | 0.619 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824045 | <LOQ (4.59) | | 4.13 | 4.59 | 1.03 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824045 | <LOQ (1.21) | MM2* | 1.09 | 1.21 | 0.588 | | | | U |
| | PFEESA | 113507-82-7 | P010824045 | <LOQ (2.16) | | 1.95 | 2.16 | 0.384 | | | | U |
| ES | M4PFBA | | P010824045 | | bb | | | | 100 | 8-130% | 100.8% | |
| | M5PFPeA | | P010824045 | | bs | | | | 50.0 | 35-130% | 103.0% | |
| | M5PFHxA | | P010824045 | | bb | | | | 25.0 | 40-130% | 97.6% | |
| | M4PFHpA | | P010824045 | | bb | | | | 25.0 | 40-130% | 99.0% | |
| | M8PFOA | | P010824045 | | bb | | | | 25.0 | 40-130% | 93.5% | |
| | M9PFNA | | P010824045 | | bb | | | | 12.5 | 40-130% | 93.3% | |
| | M6PFDA | | P010824045 | | bb | | | | 12.5 | 40-130% | 92.8% | |
| | M7PFUdA | | P010824045 | | bs | | | | 12.5 | 40-130% | 86.5% | |
| | M2-PFDoA | | P010824045 | | bs | | | | 12.5 | 40-130% | 89.9% | |
| | 13C2-PFTeDA | | P010824045 | | bb | | | | 12.5 | 20-130% | 87.5% | |
| | M3PFBS | | P010824045 | | bb | | | | 23.3 | 40-135% | 110.9% | |
| | M3PFHxS | | P010824045 | | bb | | | | 23.7 | 40-130% | 101.0% | |
| | M8PFOS | | P010824045 | | bb | | | | 24.0 | 40-130% | 89.5% | |
| | M2-4:2 FTS | | P010824045 | | bb | | | | 46.9 | 40-165% | 95.1% | |
| | M2-6:2 FTS | | P010824045 | | bb | | | | 47.6 | 40-215% | 85.6% | |
| | M2-8:2 FTS | | P010824045 | | bb | | | | 48.0 | 40-275% | 96.3% | |
| | M8PFOSA | | P010824045 | | bs | | | | 25.0 | 40-130% | 78.5% | |
| | d3-N-MeFOSA | | P010824045 | | bb | | | | 25.0 | 10-130% | 51.0% | |
| | d5-N-EtFOSA | | P010824045 | | bb | | | | 25.0 | 10-130% | 50.7% | |
| | d3-N-MeFOSAA | | P010824045 | | bs | | | | 50.0 | 40-135% | 101.3% | |
| | d5-N-EtFOSAA | | P010824045 | | bb | | | | 50.0 | 40-150% | 106.0% | |
| | d7-N-MeFOSE | | P010824045 | | bb | | | | 250 | 20-130% | 64.9% | |
| | d9-N-EtFOSE | | P010824045 | | bb | | | | 250 | 15-130% | 63.1% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-019-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.15 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.98 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.08 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 6.17 |
| AnalysisDate | 2024-08-02 07:01 | Split Factor | N/A | Dry Weight (g) | 1.98 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 16.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.82 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824045 | | bb | | | | 100 | 40-130% | 113.9% | |
| JS | M3PFBA | | P010824045 | | bb | | | | 50.0 | >30% | 94.3% | |
| | M2-PFHxA | | P010824045 | | bs | | | | 25.0 | >30% | 96.4% | |
| | M4-PFOA | | P010824045 | | bb | | | | 25.0 | >30% | 97.1% | |
| | M5-PFNA | | P010824045 | | bb | | | | 12.5 | >30% | 84.2% | |
| | M2-PFDA | | P010824045 | | bb | | | | 12.5 | >30% | 95.7% | |
| | 18O2PFHxS | | P010824045 | | bb | | | | 23.7 | >30% | 105.4% | |
| | M4-PFOS | | P010824045 | | bb | | | | 24.0 | >30% | 109.0% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_C4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-019-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 7.15 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.98 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 4.77 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 6.17 |
| AnalysisDate | 2024-08-08 00:49 | Split Factor | N/A | Dry Weight (g) | 1.98 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 16.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.77 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824028 | <LOQ (5.17) | MM1* | 4.66 | 5.17 | 1.22 | | | | U |
| | PFDA | 335-76-2 | P070824028 | <LOQ (1.29) | MM1* | 1.16 | 1.29 | 0.589 | | | | U |
| | PFUnDA | 2058-94-8 | P070824028 | <LOQ (1.29) | MM1* | 1.16 | 1.29 | 0.437 | | | | U |
| | PFDoA | 307-55-1 | P070824028 | <LOQ (1.29) | MM1* | 1.16 | 1.29 | 0.437 | | | | U |
| | PFTrDA | 72629-94-8 | P070824028 | <LOQ (1.29) | MM1* | 1.16 | 1.29 | 0.445 | | | | U |
| | PFTeDA | 376-06-7 | P070824028 | <LOQ (1.29) | | 1.16 | 1.29 | 0.333 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824028 | <LOQ (1.15) | | 1.03 | 1.15 | 0.248 | | | | U |
| | PFHpS | 375-92-8 | P070824028 | <LOQ (1.23) | | 1.11 | 1.23 | 0.427 | | | | U |
| | PFOS | 1763-23-1 | P070824028 | 2.35 | MM2* | 1.08 | 1.20 | 0.455 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824028 | <LOQ (4.97) | | 4.47 | 4.97 | 3.11 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824028 | <LOQ (1.29) | | 1.16 | 1.29 | 0.122 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824028 | <LOQ (12.9) | | 11.6 | 12.9 | 2.05 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824028 | <LOQ (12.9) | | 11.6 | 12.9 | 1.74 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824028 | <LOQ (5.17) | | 4.66 | 5.17 | 1.50 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824028 | <LOQ (6.47) | | 5.82 | 6.47 | 1.31 | | | | U |
| Other | ADONA | 919005-14-4 | P070824028 | <LOQ (4.89) | | 4.40 | 4.89 | 1.09 | | | | U |
| ES | M4PFBA | | P070824028 | | bb | | | | 100 | 8-130% | 82.8% | |
| | M5PFHxA | | P070824028 | | bb | | | | 25.0 | 40-130% | 84.9% | |
| | M6PFDA | | P070824028 | | bb | | | | 12.5 | 40-130% | 81.5% | |
| | M7PFUdA | | P070824028 | | bs | | | | 12.5 | 40-130% | 79.1% | |
| | M2-PFDoA | | P070824028 | | bs | | | | 12.5 | 40-130% | 83.9% | |
| | 13C2-PFTeDA | | P070824028 | | bb | | | | 12.5 | 20-130% | 76.4% | |
| | M3PFBS | | P070824028 | | bb | | | | 23.3 | 40-135% | 90.0% | |
| | M8PFOS | | P070824028 | | bb | | | | 24.0 | 40-130% | 80.4% | |
| | M2-8:2 FTS | | P070824028 | | bb | | | | 48.0 | 40-275% | 88.4% | |
| | M8PFOSA | | P070824028 | | bs | | | | 25.0 | 40-130% | 79.2% | |
| | d7-N-MeFOSE | | P070824028 | | bb | | | | 250 | 20-130% | 77.8% | |
| | d9-N-EtFOSE | | P070824028 | | bb | | | | 250 | 15-130% | 74.8% | |
| | M3HFPO-DA | | P070824028 | | bs | | | | 100 | 40-130% | 103.5% | |
| JS | M3PFBA | | P070824028 | | bb | | | | 50.0 | >30% | 109.0% | |
| | M2-PFHxA | | P070824028 | | bs | | | | 25.0 | >30% | 105.4% | |
| | M2-PFDA | | P070824028 | | bb | | | | 12.5 | >30% | 106.5% | |
| | M4-PFOS | | P070824028 | | bb | | | | 24.0 | >30% | 122.0% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-020-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.84 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.58 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.09 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.86 |
| AnalysisDate | 2024-08-02 07:24 | Split Factor | N/A | Dry Weight (g) | 1.58 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.52 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P010824046 | <LOQ (7.68) | MM1* | 6.91 | 7.68 | 1.80 | | | | U |
| | PFPeA | 2706-90-3 | P010824046 | <LOQ (3.84) | MM1* | 3.45 | 3.84 | 0.603 | | | | U |
| | PFHxA | 307-24-4 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.633 | | | | U |
| | PFHpA | 375-85-9 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.579 | | | | U |
| | PFOA | 335-67-1 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.470 | | | | U |
| | PFNA | 375-95-1 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.367 | | | | U |
| | PFDA | 335-76-2 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.874 | | | | U |
| | PFUnDA | 2058-94-8 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.649 | | | | U |
| | PFDoA | 307-55-1 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.649 | | | | U |
| | PFTrDA | 72629-94-8 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.660 | | | | U |
| | PFTeDA | 376-06-7 | P010824046 | <LOQ (1.92) | | 1.73 | 1.92 | 0.494 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P010824046 | <LOQ (1.70) | MM1* | 1.53 | 1.70 | 0.367 | | | | U |
| | PFPeS | 2706-91-4 | P010824046 | <LOQ (1.81) | | 1.63 | 1.81 | 0.491 | | | | U |
| | PFHxS | 355-46-4 | P010824046 | <LOQ (1.75) | MM1* | 1.58 | 1.75 | 0.742 | | | | U |
| | PFHpS | 375-92-8 | P010824046 | <LOQ (1.83) | | 1.65 | 1.83 | 0.633 | | | | U |
| | PFOS | 1763-23-1 | P010824046 | 6.15 | MM2* | 1.60 | 1.78 | 0.675 | | | | |
| | PFNS | 68259-12-1 | P010824046 | <LOQ (1.85) | | 1.66 | 1.85 | 0.449 | | | | U |
| | PFDS | 335-77-3 | P010824046 | <LOQ (1.85) | | 1.67 | 1.85 | 0.167 | | | | U |
| | 4:2 FTS | 757124-72-4 | P010824046 | <LOQ (7.20) | | 6.48 | 7.20 | 3.01 | | | | U |
| | PFDoS | 79780-39-5 | P010824046 | <LOQ (1.86) | | 1.68 | 1.86 | 0.461 | | | | U |
| | 6:2 FTS | 27619-97-2 | P010824046 | <LOQ (7.29) | | 6.56 | 7.29 | 1.81 | | | | U |
| | 8:2 FTS | 39108-34-4 | P010824046 | <LOQ (7.37) | | 6.63 | 7.37 | 4.61 | | | | U |
| Other | ADONA | 919005-14-4 | P010824046 | <LOQ (7.25) | | 6.53 | 7.25 | 1.61 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P010824046 | <LOQ (7.18) | | 6.46 | 7.18 | 2.04 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P010824046 | <LOQ (1.92) | MM2* | 1.73 | 1.92 | 0.979 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P010824046 | <LOQ (7.25) | | 6.53 | 7.25 | 1.63 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P010824046 | 5.68 | MM2* | 1.73 | 1.92 | 0.929 | | | | |
| | PFEESA | 113507-82-7 | P010824046 | <LOQ (3.42) | | 3.07 | 3.42 | 0.606 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P010824046 | <LOQ (1.92) | MM1* | 1.73 | 1.92 | 0.181 | | | | U |
| | N-MeFOSA | 31506-32-8 | P010824046 | <LOQ (1.92) | | 1.73 | 1.92 | 0.528 | | | | U |
| | N-EtFOSA | 4151-50-2 | P010824046 | <LOQ (1.92) | | 1.73 | 1.92 | 1.31 | | | | U |
| | N-MeFOSE | 24448-09-7 | P010824046 | <LOQ (19.2) | | 17.3 | 19.2 | 3.04 | | | | U |
| | N-EtFOSE | 1691-99-2 | P010824046 | <LOQ (19.2) | | 17.3 | 19.2 | 2.58 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P010824046 | <LOQ (7.68) | | 6.91 | 7.68 | 2.23 | | | | U |
| | PFMBA | 863090-89-5 | P010824046 | <LOQ (3.84) | | 3.45 | 3.84 | 1.57 | | | | U |
| | PFMPA | 377-73-1 | P010824046 | <LOQ (3.84) | | 3.45 | 3.84 | 0.721 | | | | U |
| | NFDHA | 151772-58-6 | P010824046 | <LOQ (3.84) | MM1* | 3.45 | 3.84 | 1.94 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P010824046 | <LOQ (9.59) | | 8.63 | 9.59 | 1.14 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P010824046 | <LOQ (9.59) | | 8.63 | 9.59 | 2.80 | | | | U |
| | 7:3 FTCA | 812-70-4 | P010824046 | <LOQ (9.59) | | 8.63 | 9.59 | 1.94 | | | | U |
| ES | M4PFBA | | P010824046 | | bb | | | | 100 | 8-130% | 97.5% | |
| | M5PFPeA | | P010824046 | | bs | | | | 50.0 | 35-130% | 98.0% | |
| | M5PFHxA | | P010824046 | | bb | | | | 25.0 | 40-130% | 98.1% | |
| | M4PFHpA | | P010824046 | | bb | | | | 25.0 | 40-130% | 98.6% | |
| | M8PFOA | | P010824046 | | bs | | | | 25.0 | 40-130% | 93.3% | |
| | M9PFNA | | P010824046 | | bb | | | | 12.5 | 40-130% | 90.4% | |
| | M6PFDA | | P010824046 | | bb | | | | 12.5 | 40-130% | 84.3% | |
| | M7PFUdA | | P010824046 | | bb | | | | 12.5 | 40-130% | 75.3% | |
| | M2-PFDoA | | P010824046 | | bb | | | | 12.5 | 40-130% | 83.5% | |
| | 13C2-PFTeDA | | P010824046 | | bb | | | | 12.5 | 20-130% | 80.2% | |
| | M3PFBS | | P010824046 | | bb | | | | 23.3 | 40-135% | 104.6% | |
| | M3PFHxS | | P010824046 | | bb | | | | 23.7 | 40-130% | 94.4% | |
| | M8PFOS | | P010824046 | | bb | | | | 24.0 | 40-130% | 85.5% | |
| | M2-4:2 FTS | | P010824046 | | bs | | | | 46.9 | 40-165% | 97.4% | |
| | M2-6:2 FTS | | P010824046 | | bb | | | | 47.6 | 40-215% | 87.5% | |
| | M2-8:2 FTS | | P010824046 | | bb | | | | 48.0 | 40-275% | 96.9% | |
| | M8PFOSA | | P010824046 | | bs | | | | 25.0 | 40-130% | 73.7% | |
| | d3-N-MeFOSA | | P010824046 | | bb | | | | 25.0 | 10-130% | 47.4% | |
| | d5-N-EtFOSA | | P010824046 | | bb | | | | 25.0 | 10-130% | 50.7% | |
| | d3-N-MeFOSAA | | P010824046 | | bb | | | | 50.0 | 40-135% | 103.3% | |
| | d5-N-EtFOSAA | | P010824046 | | bb | | | | 50.0 | 40-150% | 106.1% | |
| | d7-N-MeFOSE | | P010824046 | | bb | | | | 250 | 20-130% | 63.9% | |
| | d9-N-EtFOSE | | P010824046 | | bb | | | | 250 | 15-130% | 61.2% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-020-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.84 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.58 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.09 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.86 |
| AnalysisDate | 2024-08-02 07:24 | Split Factor | N/A | Dry Weight (g) | 1.58 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.52 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P010824046 | | bs | | | | 100 | 40-130% | 115.3% | |
| JS | M3PFBA | | P010824046 | | bb | | | | 50.0 | >30% | 96.5% | |
| | M2-PFHxA | | P010824046 | | bs | | | | 25.0 | >30% | 96.1% | |
| | M4-PFOA | | P010824046 | | bb | | | | 25.0 | >30% | 95.9% | |
| | M5-PFNA | | P010824046 | | bb | | | | 12.5 | >30% | 83.1% | |
| | M2-PFDA | | P010824046 | | bb | | | | 12.5 | >30% | 98.1% | |
| | 18O2PFHxS | | P010824046 | | bb | | | | 23.7 | >30% | 112.3% | |
| | M4-PFOS | | P010824046 | | bs | | | | 24.0 | >30% | 105.5% | |

Peak Flags
MM1* MM-;r R.H.H. 08/02/2024
MM2* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_S4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-020-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.84 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 1.58 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.03 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.86 |
| AnalysisDate | 2024-08-08 01:12 | Split Factor | N/A | Dry Weight (g) | 1.58 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 10.2% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 0.52 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824029 | <LOQ (7.77) | MM1* | 6.99 | 7.77 | 1.83 | | | | U |
| | PFDA | 335-76-2 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.884 | | | | U |
| | PFUnDA | 2058-94-8 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.656 | | | | U |
| | PFDoA | 307-55-1 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.656 | | | | U |
| | PFTrDA | 72629-94-8 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.668 | | | | U |
| | PFTeDA | 376-06-7 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.500 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824029 | <LOQ (1.72) | | 1.55 | 1.72 | 0.372 | | | | U |
| | PFHpS | 375-92-8 | P070824029 | <LOQ (1.85) | | 1.67 | 1.85 | 0.641 | | | | U |
| | PFOS | 1763-23-1 | P070824029 | 5.81 | MM2* | 1.62 | 1.80 | 0.683 | | | | |
| | 8:2 FTS | 39108-34-4 | P070824029 | <LOQ (7.46) | | 6.71 | 7.46 | 4.67 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824029 | <LOQ (1.94) | MM1* | 1.75 | 1.94 | 0.183 | | | | U |
| | N-MeFOSA | 31506-32-8 | P070824029 | <LOQ (1.94) | | 1.75 | 1.94 | 0.534 | | | | U |
| | N-EtFOSA | 4151-50-2 | P070824029 | <LOQ (1.94) | | 1.75 | 1.94 | 1.33 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824029 | <LOQ (19.4) | | 17.5 | 19.4 | 3.08 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824029 | <LOQ (19.4) | | 17.5 | 19.4 | 2.61 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824029 | <LOQ (7.77) | | 6.99 | 7.77 | 2.25 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824029 | <LOQ (9.71) | | 8.74 | 9.71 | 1.96 | | | | U |
| Other | ADONA | 919005-14-4 | P070824029 | <LOQ (7.34) | | 6.61 | 7.34 | 1.63 | | | | U |
| ES | M4PFBA | | P070824029 | | bb | | | | 100 | 8-130% | 83.7% | |
| | M5PFHxA | | P070824029 | | bb | | | | 25.0 | 40-130% | 83.9% | |
| | M6PFDA | | P070824029 | | bb | | | | 12.5 | 40-130% | 78.3% | |
| | M7PFUdA | | P070824029 | | bb | | | | 12.5 | 40-130% | 75.4% | |
| | M2-PFDoA | | P070824029 | | bs | | | | 12.5 | 40-130% | 82.5% | |
| | 13C2-PFTeDA | | P070824029 | | bb | | | | 12.5 | 20-130% | 74.5% | |
| | M3PFBS | | P070824029 | | bs | | | | 23.3 | 40-135% | 92.7% | |
| | M8PFOS | | P070824029 | | bb | | | | 24.0 | 40-130% | 79.9% | |
| | M2-8:2 FTS | | P070824029 | | bb | | | | 48.0 | 40-275% | 83.5% | |
| | M8PFOSA | | P070824029 | | bs | | | | 25.0 | 40-130% | 79.2% | |
| | d3-N-MeFOSA | | P070824029 | | bb | | | | 25.0 | 10-130% | 76.5% | |
| | d5-N-EtFOSA | | P070824029 | | bb | | | | 25.0 | 10-130% | 78.2% | |
| | d7-N-MeFOSE | | P070824029 | | bb | | | | 250 | 20-130% | 77.4% | |
| | d9-N-EtFOSE | | P070824029 | | bb | | | | 250 | 15-130% | 73.0% | |
| | M3HFPO-DA | | P070824029 | | bb | | | | 100 | 40-130% | 102.3% | |
| JS | M3PFBA | | P070824029 | | bb | | | | 50.0 | >30% | 111.8% | |
| | M2-PFHxA | | P070824029 | | bb | | | | 25.0 | >30% | 110.9% | |
| | M2-PFDA | | P070824029 | | bb | | | | 12.5 | >30% | 108.8% | |
| | M4-PFOS | | P070824029 | | bb | | | | 24.0 | >30% | 128.0% | |

Peak Flags
MM1* MM-;r R.H.H. 08/08/2024
MM2* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.1 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 10:27 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.78 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724043 | <LOQ (1.06) | MM1* | 0.953 | 1.06 | 0.249 | | | | U |
| | PFPeA | 2706-90-3 | P310724043 | <LOQ (0.530) | MM1* | 0.477 | 0.530 | 0.0833 | | | | U |
| | PFHxA | 307-24-4 | P310724043 | <LOQ (0.265) | MM1* | 0.238 | 0.265 | 0.0874 | | | | U |
| | PFHpA | 375-85-9 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0798 | | | | U |
| | PFOA | 335-67-1 | P310724043 | <LOQ (0.265) | MM1* | 0.238 | 0.265 | 0.0649 | | | | U |
| | PFNA | 375-95-1 | P310724043 | <LOQ (0.265) | MM1* | 0.238 | 0.265 | 0.0507 | | | | U |
| | PFDA | 335-76-2 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.121 | | | | U |
| | PFUnDA | 2058-94-8 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0895 | | | | U |
| | PFDoA | 307-55-1 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0895 | | | | U |
| | PFTrDA | 72629-94-8 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0911 | | | | U |
| | PFTeDA | 376-06-7 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0682 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P310724043 | <LOQ (0.235) | | 0.211 | 0.235 | 0.0507 | | | | U |
| | PFPeS | 2706-91-4 | P310724043 | <LOQ (0.249) | | 0.224 | 0.249 | 0.0678 | | | | U |
| | PFHxS | 355-46-4 | P310724043 | <LOQ (0.242) | | 0.218 | 0.242 | 0.102 | | | | U |
| | PFHpS | 375-92-8 | P310724043 | <LOQ (0.252) | | 0.227 | 0.252 | 0.0874 | | | | U |
| | PFOS | 1763-23-1 | P310724043 | <LOQ (0.246) | | 0.221 | 0.246 | 0.0932 | | | | U |
| | PFNS | 68259-12-1 | P310724043 | <LOQ (0.255) | | 0.229 | 0.255 | 0.0620 | | | | U |
| | PFDS | 335-77-3 | P310724043 | <LOQ (0.255) | | 0.230 | 0.255 | 0.0230 | | | | U |
| | 4:2 FTS | 757124-72-4 | P310724043 | <LOQ (0.993) | | 0.894 | 0.993 | 0.416 | | | | U |
| | PFDoS | 79780-39-5 | P310724043 | <LOQ (0.257) | | 0.231 | 0.257 | 0.0637 | | | | U |
| | 6:2 FTS | 27619-97-2 | P310724043 | <LOQ (1.01) | | 0.905 | 1.01 | 0.250 | | | | U |
| | 8:2 FTS | 39108-34-4 | P310724043 | <LOQ (1.02) | | 0.915 | 1.02 | 0.637 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0250 | | | | U |
| | N-MeFOSA | 31506-32-8 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.0728 | | | | U |
| | N-EtFOSA | 4151-50-2 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.181 | | | | U |
| | N-MeFOSE | 24448-09-7 | P310724043 | <LOQ (2.65) | | 2.38 | 2.65 | 0.420 | | | | U |
| | N-EtFOSE | 1691-99-2 | P310724043 | <LOQ (2.65) | | 2.38 | 2.65 | 0.356 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P310724043 | <LOQ (1.06) | | 0.953 | 1.06 | 0.307 | | | | U |
| | PFMBA | 863090-89-5 | P310724043 | <LOQ (0.530) | | 0.477 | 0.530 | 0.217 | | | | U |
| | PFMPA | 377-73-1 | P310724043 | <LOQ (0.530) | | 0.477 | 0.530 | 0.0994 | | | | U |
| | NFDHA | 151772-58-6 | P020824017 | <LOQ (0.530) | | 0.477 | 0.530 | 0.267 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724043 | <LOQ (1.32) | | 1.19 | 1.32 | 0.158 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P310724043 | <LOQ (1.32) | | 1.19 | 1.32 | 0.387 | | | | U |
| | 7:3 FTCA | 812-70-4 | P310724043 | <LOQ (1.32) | | 1.19 | 1.32 | 0.267 | | | | U |
| Other | ADONA | 919005-14-4 | P310724043 | <LOQ (1.00) | | 0.901 | 1.00 | 0.222 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P310724043 | <LOQ (0.990) | | 0.891 | 0.990 | 0.282 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.135 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724043 | <LOQ (1.00) | | 0.901 | 1.00 | 0.225 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P310724043 | <LOQ (0.265) | | 0.238 | 0.265 | 0.128 | | | | U |
| | PFEESA | 113507-82-7 | P310724043 | <LOQ (0.471) | | 0.424 | 0.471 | 0.0837 | | | | U |
| ES | M4PFBA | | P310724043 | | bb | | | | 100 | 8-130% | 82.1% | |
| | M5PFPeA | | P310724043 | | bs | | | | 50.0 | 35-130% | 84.4% | |
| | M5PFHxA | | P310724043 | | bs | | | | 25.0 | 40-130% | 84.5% | |
| | M4PFHpA | | P310724043 | | bb | | | | 25.0 | 40-130% | 86.0% | |
| | M8PFOA | | P310724043 | | bs | | | | 25.0 | 40-130% | 79.4% | |
| | M9PFNA | | P310724043 | | bb | | | | 12.5 | 40-130% | 77.2% | |
| | M6PFDA | | P310724043 | | bb | | | | 12.5 | 40-130% | 76.6% | |
| | M7PFUdA | | P310724043 | | bs | | | | 12.5 | 40-130% | 75.2% | |
| | M2-PFDoA | | P310724043 | | bb | | | | 12.5 | 40-130% | 71.0% | |
| | 13C2-PFTeDA | | P310724043 | | bb | | | | 12.5 | 20-130% | 62.0% | |
| | M3PFBS | | P310724043 | | bs | | | | 23.3 | 40-135% | 86.7% | |
| | M3PFHxS | | P310724043 | | bb | | | | 23.7 | 40-130% | 81.8% | |
| | M8PFOS | | P310724043 | | bb | | | | 24.0 | 40-130% | 71.1% | |
| | M2-4:2 FTS | | P310724043 | | bb | | | | 46.9 | 40-165% | 61.9% | |
| | M2-6:2 FTS | | P020824017 | | bb | | | | 47.6 | 40-215% | 79.1% | |
| | M2-8:2 FTS | | P310724043 | | bb | | | | 48.0 | 40-275% | 67.3% | |
| | M8PFOSA | | P310724043 | | bb | | | | 25.0 | 40-130% | 65.4% | |
| | d3-N-MeFOSA | | P310724043 | | bb | | | | 25.0 | 10-130% | 34.8% | |
| | d5-N-EtFOSA | | P310724043 | | bb | | | | 25.0 | 10-130% | 27.3% | |
| | d3-N-MeFOSAA | | P310724043 | | bs | | | | 50.0 | 40-135% | 76.2% | |
| | d5-N-EtFOSAA | | P310724043 | | bb | | | | 50.0 | 40-150% | 75.5% | |
| | d7-N-MeFOSE | | P310724043 | | bb | | | | 250 | 20-130% | 51.6% | |
| | d9-N-EtFOSE | | P310724043 | | bb | | | | 250 | 15-130% | 46.9% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021-1A | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.1 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 10:27 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.78 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P310724043 | | bb | | | | 100 | 40-130% | 107.4% | |
| JS | M3PFBA | | P310724043 | | bb | | | | 50.0 | >30% | 103.4% | |
| | M2-PFHxA | | P310724043 | | bb | | | | 25.0 | >30% | 97.2% | |
| | M4-PFOA | | P310724043 | | bb | | | | 25.0 | >30% | 100.0% | |
| | M5-PFNA | | P310724043 | | bs | | | | 12.5 | >30% | 89.0% | |
| | M2-PFDA | | P310724043 | | bb | | | | 12.5 | >30% | 99.5% | |
| | 18O2PFHxS | | P310724043 | | bb | | | | 23.7 | >30% | 119.0% | |
| | M4-PFOS | | P310724043 | | bb | | | | 24.0 | >30% | 123.0% | |

Peak Flags  MM1*  MM-;r R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | SCL74_Sand4 | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021-1B | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | 2024-07-17 13:08 | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | 2024-07-18 | Sample Vol mL | N/A | Extr. Mass (g) | 5.06 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-08 01:35 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | Sample | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 3.75 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824030 | <LOQ (1.07) | MM1* | 0.961 | 1.07 | 0.251 | | | | U |
| | PFDA | 335-76-2 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.122 | | | | U |
| | PFUnDA | 2058-94-8 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.0902 | | | | U |
| | PFDoA | 307-55-1 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.0902 | | | | U |
| | PFTrDA | 72629-94-8 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.0918 | | | | U |
| | PFTeDA | 376-06-7 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.0687 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824030 | <LOQ (0.237) | | 0.213 | 0.237 | 0.0511 | | | | U |
| | PFHpS | 375-92-8 | P070824030 | <LOQ (0.254) | | 0.229 | 0.254 | 0.0881 | | | | U |
| | PFOS | 1763-23-1 | P070824030 | <LOQ (0.248) | | 0.223 | 0.248 | 0.0939 | | | | U |
| | 8:2 FTS | 39108-34-4 | P070824030 | <LOQ (1.02) | | 0.922 | 1.02 | 0.642 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824030 | <LOQ (0.267) | | 0.240 | 0.267 | 0.0252 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824030 | <LOQ (2.67) | | 2.40 | 2.67 | 0.423 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824030 | <LOQ (2.67) | | 2.40 | 2.67 | 0.359 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824030 | <LOQ (1.07) | | 0.961 | 1.07 | 0.310 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824030 | <LOQ (1.33) | | 1.20 | 1.33 | 0.270 | | | | U |
| Other | ADONA | 919005-14-4 | P070824030 | <LOQ (1.01) | | 0.908 | 1.01 | 0.224 | | | | U |
| ES | M4PFBA | | P070824030 | | bb | | | | 100 | 8-130% | 66.0% | |
| | M5PFHxA | | P070824030 | | bb | | | | 25.0 | 40-130% | 79.9% | |
| | M6PFDA | | P070824030 | | bb | | | | 12.5 | 40-130% | 80.5% | |
| | M7PFUdA | | P070824030 | | bb | | | | 12.5 | 40-130% | 73.5% | |
| | M2-PFDoA | | P070824030 | | bb | | | | 12.5 | 40-130% | 80.7% | |
| | 13C2-PFTeDA | | P070824030 | | bb | | | | 12.5 | 20-130% | 72.2% | |
| | M3PFBS | | P070824030 | | bb | | | | 23.3 | 40-135% | 87.3% | |
| | M8PFOS | | P070824030 | | bb | | | | 24.0 | 40-130% | 76.2% | |
| | M2-8:2 FTS | | P070824030 | | bb | | | | 48.0 | 40-275% | 75.2% | |
| | M8PFOSA | | P070824030 | | bb | | | | 25.0 | 40-130% | 74.1% | |
| | d7-N-MeFOSE | | P070824030 | | bb | | | | 250 | 20-130% | 73.5% | |
| | d9-N-EtFOSE | | P070824030 | | bb | | | | 250 | 15-130% | 71.5% | |
| | M3HFPO-DA | | P070824030 | | bb | | | | 100 | 40-130% | 100.3% | |
| JS | M3PFBA | | P070824030 | | bb | | | | 50.0 | >30% | 110.5% | |
| | M2-PFHxA | | P070824030 | | bb | | | | 25.0 | >30% | 108.9% | |
| | M2-PFDA | | P070824030 | | bb | | | | 12.5 | >30% | 103.1% | |
| | M4-PFOS | | P070824030 | | bb | | | | 24.0 | >30% | 129.6% | |

Peak Flags MM1* MM-;r R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# QC Data

ENTHALPY ANALYTICAL

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | MB_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | MB_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 00:38 | Split Factor | N/A |
| SampleType | Blank | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724037 | <LOQ (8.00) | bb | 7.20 | 8.00 | 1.88 | | | | U |
| | PFPeA | 2706-90-3 | P290724037 | <LOQ (4.00) | MM1* | 3.60 | 4.00 | 0.629 | | | | U |
| | PFHxA | 307-24-4 | P290724037 | <LOQ (2.00) | MM1* | 1.80 | 2.00 | 0.660 | | | | U |
| | PFHpA | 375-85-9 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.603 | | | | U |
| | PFOA | 335-67-1 | P290724037 | <LOQ (2.00) | bb | 1.80 | 2.00 | 0.490 | | | | U |
| | PFNA | 375-95-1 | P290724037 | <LOQ (2.00) | bb1* | 1.80 | 2.00 | 0.383 | | | | U |
| | PFDA | 335-76-2 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.911 | | | | U |
| | PFUnDA | 2058-94-8 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.676 | | | | U |
| | PFDoA | 307-55-1 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.676 | | | | U |
| | PFTrDA | 72629-94-8 | P290724037 | <LOQ (2.00) | MM2* | 1.80 | 2.00 | 0.688 | | | | U |
| | PFTeDA | 376-06-7 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.515 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P290724037 | <LOQ (1.77) | | 1.60 | 1.77 | 0.383 | | | | U |
| | PFPeS | 2706-91-4 | P290724037 | <LOQ (1.88) | | 1.69 | 1.88 | 0.512 | | | | U |
| | PFHxS | 355-46-4 | P290724037 | <LOQ (1.83) | | 1.65 | 1.83 | 0.773 | | | | U |
| | PFHpS | 375-92-8 | P290724037 | <LOQ (1.91) | | 1.72 | 1.91 | 0.660 | | | | U |
| | PFOS | 1763-23-1 | P290724037 | <LOQ (1.86) | MM3* | 1.67 | 1.86 | 0.704 | | | | U |
| | PFNS | 68259-12-1 | P290724037 | <LOQ (1.92) | | 1.73 | 1.92 | 0.468 | | | | U |
| | PFDS | 335-77-3 | P290724037 | <LOQ (1.93) | | 1.74 | 1.93 | 0.174 | | | | U |
| | PFDoS | 79780-39-5 | P290724037 | <LOQ (1.94) | | 1.75 | 1.94 | 0.481 | | | | U |
| | 4:2 FTS | 757124-72-4 | P290724037 | <LOQ (7.50) | | 6.75 | 7.50 | 3.14 | | | | U |
| | 6:2 FTS | 27619-97-2 | P290724037 | <LOQ (7.60) | | 6.84 | 7.60 | 1.89 | | | | U |
| | 8:2 FTS | 39108-34-4 | P290724037 | <LOQ (7.68) | | 6.91 | 7.68 | 4.81 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.189 | | | | U |
| | N-MeFOSA | 31506-32-8 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.550 | | | | U |
| | N-EtFOSA | 4151-50-2 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 1.37 | | | | U |
| | N-MeFOSE | 24448-09-7 | P290724037 | <LOQ (20.0) | | 18.0 | 20.0 | 3.17 | | | | U |
| | N-EtFOSE | 1691-99-2 | P290724037 | <LOQ (20.0) | | 18.0 | 20.0 | 2.69 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P290724037 | <LOQ (8.00) | | 7.20 | 8.00 | 2.32 | | | | U |
| | PFMBA | 863090-89-5 | P290724037 | <LOQ (4.00) | | 3.60 | 4.00 | 1.64 | | | | U |
| | PFMPA | 377-73-1 | P290724037 | <LOQ (4.00) | | 3.60 | 4.00 | 0.751 | | | | U |
| | NFDHA | 151772-58-6 | P290724037 | <LOQ (4.00) | | 3.60 | 4.00 | 2.02 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724037 | <LOQ (10.0) | | 9.00 | 10.0 | 1.19 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P290724037 | <LOQ (10.0) | | 9.00 | 10.0 | 2.92 | | | | U |
| | 7:3 FTCA | 812-70-4 | P290724037 | <LOQ (10.0) | | 9.00 | 10.0 | 2.02 | | | | U |
| Other | ADONA | 919005-14-4 | P290724037 | <LOQ (7.56) | | 6.80 | 7.56 | 1.68 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P290724037 | <LOQ (7.48) | | 6.73 | 7.48 | 2.13 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 1.02 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724037 | <LOQ (7.56) | | 6.80 | 7.56 | 1.70 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P290724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.968 | | | | U |
| | PFEESA | 113507-82-7 | P290724037 | <LOQ (3.56) | | 3.20 | 3.56 | 0.632 | | | | U |
| ES | M4PFBA | | P290724037 | | bb | | | | 100 | 5-130% | 94.3% | |
| | M5PFPeA | | P290724037 | | bs | | | | 50.0 | 40-130% | 94.3% | |
| | M5PFHxA | | P290724037 | | bs | | | | 25.0 | 40-130% | 95.8% | |
| | M4PFHpA | | P290724037 | | bs | | | | 25.0 | 40-130% | 96.8% | |
| | M8PFOA | | P290724037 | | bb | | | | 25.0 | 40-130% | 90.9% | |
| | M9PFNA | | P290724037 | | bs | | | | 12.5 | 40-130% | 91.6% | |
| | M6PFDA | | P290724037 | | bb | | | | 12.5 | 40-130% | 94.6% | |
| | M7PFUdA | | P290724037 | | bb | | | | 12.5 | 30-130% | 87.2% | |
| | M2-PFDoA | | P290724037 | | bs | | | | 12.5 | 10-130% | 87.5% | |
| | 13C2-PFTeDA | | P290724037 | | bb | | | | 12.5 | 10-130% | 81.2% | |
| | M3PFBS | | P290724037 | | bb | | | | 23.3 | 40-135% | 89.0% | |
| | M3PFHxS | | P290724037 | | bb | | | | 23.7 | 40-130% | 89.0% | |
| | M8PFOS | | P290724037 | | bb | | | | 24.0 | 40-130% | 93.3% | |
| | M2-4:2 FTS | | P290724037 | | bb | | | | 46.9 | 40-200% | 92.0% | |
| | M2-6:2 FTS | | P290724037 | | bs | | | | 47.6 | 40-200% | 81.0% | |
| | M2-8:2 FTS | | P290724037 | | bb | | | | 48.0 | 40-300% | 78.1% | |
| | M8PFOSA | | P290724037 | | bb | | | | 25.0 | 40-130% | 90.1% | |
| | d3-N-MeFOSA | | P290724037 | | bb | | | | 25.0 | 10-130% | 57.1% | |
| | d5-N-EtFOSA | | P290724037 | | bb | | | | 25.0 | 10-130% | 55.3% | |
| | d3-N-MeFOSAA | | P290724037 | | bb | | | | 50.0 | 40-170% | 86.3% | |
| | d5-N-EtFOSAA | | P290724037 | | bs | | | | 50.0 | 25-135% | 82.7% | |
| | d7-N-MeFOSE | | P290724037 | | bb | | | | 250 | 10-130% | 87.3% | |
| | d9-N-EtFOSE | | P290724037 | | bb | | | | 250 | 10-130% | 84.1% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | MB_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | MB_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 00:38 | Split Factor | N/A |
| SampleType | Blank | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724037 | | bb | | | | 100 | 40-130% | 100.7% | |
| JS | M3PFBA | | P290724037 | | bb | | | | 50.0 | >30% | 133.6% | |
| | M2-PFHxA | | P290724037 | | bs | | | | 25.0 | >30% | 128.0% | |
| | M4-PFOA | | P290724037 | | bb | | | | 25.0 | >30% | 129.5% | |
| | M5-PFNA | | P290724037 | | bs | | | | 12.5 | >30% | 119.7% | |
| | M2-PFDA | | P290724037 | | bb | | | | 12.5 | >30% | 126.3% | |
| | 18O2PFHxS | | P290724037 | | bb | | | | 23.7 | >30% | 136.2% | |
| | M4-PFOS | | P290724037 | | bs | | | | 24.0 | >30% | 128.5% | |

Peak Flags
bb1*  bb;N  JDG 7/30/24
MM1*  MM-;R JDG 7/30/24
MM2*  MM-;R  JDG 7/30/24
MM3*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | MB_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | MB_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 07:26 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Blank | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724037 | <LOQ (0.800) | MM1* | 0.720 | 0.800 | 0.188 | | | | U |
| | PFPeA | 2706-90-3 | P310724037 | <LOQ (0.400) | MM1* | 0.360 | 0.400 | 0.0629 | | | | U |
| | PFHxA | 307-24-4 | P310724037 | <LOQ (0.200) | MM1* | 0.180 | 0.200 | 0.0660 | | | | U |
| | PFHpA | 375-85-9 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0603 | | | | U |
| | PFOA | 335-67-1 | P310724037 | <LOQ (0.200) | MM1* | 0.180 | 0.200 | 0.0490 | | | | U |
| | PFNA | 375-95-1 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0383 | | | | U |
| | PFDA | 335-76-2 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0911 | | | | U |
| | PFUnDA | 2058-94-8 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0676 | | | | U |
| | PFDoA | 307-55-1 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0676 | | | | U |
| | PFTrDA | 72629-94-8 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0688 | | | | U |
| | PFTeDA | 376-06-7 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0515 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P310724037 | <LOQ (0.177) | MM1* | 0.160 | 0.177 | 0.0383 | | | | U |
| | PFPeS | 2706-91-4 | P310724037 | <LOQ (0.188) | | 0.169 | 0.188 | 0.0512 | | | | U |
| | PFHxS | 355-46-4 | P310724037 | <LOQ (0.183) | | 0.165 | 0.183 | 0.0773 | | | | U |
| | PFHpS | 375-92-8 | P310724037 | <LOQ (0.191) | | 0.172 | 0.191 | 0.0660 | | | | U |
| | PFOS | 1763-23-1 | P310724037 | <LOQ (0.186) | | 0.167 | 0.186 | 0.0704 | | | | U |
| | PFNS | 68259-12-1 | P310724037 | <LOQ (0.192) | | 0.173 | 0.192 | 0.0468 | | | | U |
| | PFDS | 335-77-3 | P310724037 | <LOQ (0.193) | | 0.174 | 0.193 | 0.0174 | | | | U |
| | 4:2 FTS | 757124-72-4 | P310724037 | <LOQ (0.750) | | 0.675 | 0.750 | 0.314 | | | | U |
| | PFDoS | 79780-39-5 | P310724037 | <LOQ (0.194) | | 0.175 | 0.194 | 0.0481 | | | | U |
| | 6:2 FTS | 27619-97-2 | P310724037 | <LOQ (0.760) | | 0.684 | 0.760 | 0.189 | | | | U |
| | 8:2 FTS | 39108-34-4 | P310724037 | <LOQ (0.768) | | 0.691 | 0.768 | 0.481 | | | | U |
| Other | ADONA | 919005-14-4 | P310724037 | <LOQ (0.756) | | 0.680 | 0.756 | 0.168 | | | | U |
| | 9Cl-PF3ONS | 756426-58-1 | P310724037 | <LOQ (0.748) | | 0.673 | 0.748 | 0.213 | | | | U |
| | N-MeFOSAA | 2355-31-9 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.102 | | | | U |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724037 | <LOQ (0.756) | | 0.680 | 0.756 | 0.170 | | | | U |
| | N-EtFOSAA | 2991-50-6 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0968 | | | | U |
| | PFEESA | 113507-82-7 | P310724037 | <LOQ (0.356) | | 0.320 | 0.356 | 0.0632 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0189 | | | | U |
| | N-MeFOSA | 31506-32-8 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0550 | | | | U |
| | N-EtFOSA | 4151-50-2 | P310724037 | <LOQ (0.200) | | 0.180 | 0.200 | 0.137 | | | | U |
| | N-MeFOSE | 24448-09-7 | P310724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.317 | | | | U |
| | N-EtFOSE | 1691-99-2 | P310724037 | <LOQ (2.00) | | 1.80 | 2.00 | 0.269 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P310724037 | <LOQ (0.800) | | 0.720 | 0.800 | 0.232 | | | | U |
| | PFMBA | 863090-89-5 | P310724037 | <LOQ (0.400) | | 0.360 | 0.400 | 0.164 | | | | U |
| | PFMPA | 377-73-1 | P310724037 | <LOQ (0.400) | | 0.360 | 0.400 | 0.0751 | | | | U |
| | NFDHA | 151772-58-6 | P020824011 | <LOQ (0.400) | | 0.360 | 0.400 | 0.202 | | | | U |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724037 | <LOQ (1.00) | | 0.900 | 1.00 | 0.119 | | | | U |
| | 5:3 FTCA | 914637-49-3 | P310724037 | <LOQ (1.00) | | 0.900 | 1.00 | 0.292 | | | | U |
| | 7:3 FTCA | 812-70-4 | P310724037 | <LOQ (1.00) | | 0.900 | 1.00 | 0.202 | | | | U |
| ES | M4PFBA | | P310724037 | | bb | | | | 100 | 8-130% | 95.5% | |
| | M5PFPeA | | P310724037 | | bs | | | | 50.0 | 35-130% | 97.6% | |
| | M5PFHxA | | P310724037 | | bs | | | | 25.0 | 40-130% | 94.1% | |
| | M4PFHpA | | P310724037 | | bs | | | | 25.0 | 40-130% | 97.5% | |
| | M8PFOA | | P310724037 | | bs | | | | 25.0 | 40-130% | 90.9% | |
| | M9PFNA | | P310724037 | | bb | | | | 12.5 | 40-130% | 79.3% | |
| | M6PFDA | | P310724037 | | bb | | | | 12.5 | 40-130% | 60.6% | |
| | M7PFUdA | | P310724037 | | bs | | | | 12.5 | 40-130% | 47.2% | |
| | M2-PFDoA | | P310724037 | | bb | | | | 12.5 | 40-130% | 47.8% | |
| | 13C2-PFTeDA | | P310724037 | | bb | | | | 12.5 | 20-130% | 52.2% | |
| | M3PFBS | | P310724037 | | bb | | | | 23.3 | 40-135% | 105.5% | |
| | M3PFHxS | | P310724037 | | bb | | | | 23.7 | 40-130% | 94.0% | |
| | M8PFOS | | P310724037 | | bb | | | | 24.0 | 40-130% | 65.6% | |
| | M2-4:2 FTS | | P310724037 | | bb | | | | 46.9 | 40-165% | 80.4% | |
| | M2-6:2 FTS | | P020824011 | | bb | | | | 47.6 | 40-215% | 91.5% | |
| | M2-8:2 FTS | | P310724037 | | bb | | | | 48.0 | 40-275% | 52.8% | |
| | M8PFOSA | | P310724037 | | bs | | | | 25.0 | 40-130% | 60.2% | |
| | d3-N-MeFOSA | | P310724037 | | bb | | | | 25.0 | 10-130% | 22.1% | |
| | d5-N-EtFOSA | | P310724037 | | bb | | | | 25.0 | 10-130% | 18.1% | |
| | d3-N-MeFOSAA | | P310724037 | | bb | | | | 50.0 | 40-135% | 51.4% | |
| | d5-N-EtFOSAA | | P310724037 | | bb | | | | 50.0 | 40-150% | 50.6% | |
| | d7-N-MeFOSE | | P310724037 | | bb | | | | 250 | 20-130% | 39.1% | |
| | d9-N-EtFOSE | | P310724037 | | bb | | | | 250 | 15-130% | 37.9% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | MB_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | MB_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 07:26 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Blank | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P310724037 | | bb | | | | 100 | 40-130% | 117.7% | |
| JS | M3PFBA | | P310724037 | | bb | | | | 50.0 | >30% | 105.2% | |
| | M2-PFHxA | | P310724037 | | bb | | | | 25.0 | >30% | 105.3% | |
| | M4-PFOA | | P310724037 | | bs | | | | 25.0 | >30% | 105.3% | |
| | M5-PFNA | | P310724037 | | bb | | | | 12.5 | >30% | 85.8% | |
| | M2-PFDA | | P310724037 | | bb | | | | 12.5 | >30% | 103.3% | |
| | 18O2PFHxS | | P310724037 | | bb | | | | 23.7 | >30% | 117.3% | |
| | M4-PFOS | | P310724037 | | bb | | | | 24.0 | >30% | 118.2% | |

Peak Flags  MM1*  MM-;r R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | MB_17914_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | MB_17914_PFAS | Prep Batch | EU17914 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 1 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 1 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 1 |
| AnalysisDate | 2024-08-07 18:22 | Split Factor | N/A | Dry Weight (g) | 1 |
| SampleType | Blank | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824011 | <LOQ (0.800) | MM1* | 0.720 | 0.800 | 0.188 | | | | U |
| | PFDA | 335-76-2 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0911 | | | | U |
| | PFUnDA | 2058-94-8 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0676 | | | | U |
| | PFDoA | 307-55-1 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0676 | | | | U |
| | PFTrDA | 72629-94-8 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0688 | | | | U |
| | PFTeDA | 376-06-7 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0515 | | | | U |
| Sulfonates | PFBS | 375-73-5 | P070824011 | <LOQ (0.177) | MM1* | 0.160 | 0.177 | 0.0383 | | | | U |
| | PFHpS | 375-92-8 | P070824011 | <LOQ (0.191) | | 0.172 | 0.191 | 0.0660 | | | | U |
| | PFOS | 1763-23-1 | P070824011 | <LOQ (0.186) | | 0.167 | 0.186 | 0.0704 | | | | U |
| | 8:2 FTS | 39108-34-4 | P070824011 | <LOQ (0.768) | | 0.691 | 0.768 | 0.481 | | | | U |
| Sulfonmides | PFOSA | 754-91-6 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0189 | | | | U |
| | N-MeFOSA | 31506-32-8 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.0550 | | | | U |
| | N-EtFOSA | 4151-50-2 | P070824011 | <LOQ (0.200) | | 0.180 | 0.200 | 0.137 | | | | U |
| | N-MeFOSE | 24448-09-7 | P070824011 | <LOQ (2.00) | | 1.80 | 2.00 | 0.317 | | | | U |
| | N-EtFOSE | 1691-99-2 | P070824011 | <LOQ (2.00) | | 1.80 | 2.00 | 0.269 | | | | U |
| PFECAs | HFPO-DA | 13252-13-6 | P070824011 | <LOQ (0.800) | | 0.720 | 0.800 | 0.232 | | | | U |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824011 | <LOQ (1.00) | | 0.900 | 1.00 | 0.202 | | | | U |
| Other | ADONA | 919005-14-4 | P070824011 | <LOQ (0.756) | | 0.680 | 0.756 | 0.168 | | | | U |
| ES | M4PFBA | | P070824011 | | bb | | | | 100 | 8-130% | 83.6% | |
| | M5PFHxA | | P070824011 | | bb | | | | 25.0 | 40-130% | 83.3% | |
| | M6PFDA | | P070824011 | | bb | | | | 12.5 | 40-130% | 86.0% | |
| | M7PFUdA | | P070824011 | | bb | | | | 12.5 | 40-130% | 77.4% | |
| | M2-PFDoA | | P070824011 | | bs | | | | 12.5 | 40-130% | 83.7% | |
| | 13C2-PFTeDA | | P070824011 | | bb | | | | 12.5 | 20-130% | 77.2% | |
| | M3PFBS | | P070824011 | | bb | | | | 23.3 | 40-135% | 84.4% | |
| | M8PFOS | | P070824011 | | bb | | | | 24.0 | 40-130% | 82.4% | |
| | M2-8:2 FTS | | P070824011 | | bb | | | | 48.0 | 40-275% | 77.8% | |
| | M8PFOSA | | P070824011 | | bb | | | | 25.0 | 40-130% | 75.0% | |
| | d3-N-MeFOSA | | P070824011 | | bb | | | | 25.0 | 10-130% | 69.3% | |
| | d5-N-EtFOSA | | P070824011 | | bb | | | | 25.0 | 10-130% | 69.2% | |
| | d7-N-MeFOSE | | P070824011 | | bb | | | | 250 | 20-130% | 78.7% | |
| | d9-N-EtFOSE | | P070824011 | | bb | | | | 250 | 15-130% | 75.6% | |
| | M3HFPO-DA | | P070824011 | | bb | | | | 100 | 40-130% | 104.2% | |
| JS | M3PFBA | | P070824011 | | bb | | | | 50.0 | >30% | 116.9% | |
| | M2-PFHxA | | P070824011 | | bb | | | | 25.0 | >30% | 114.0% | |
| | M2-PFDA | | P070824011 | | bb | | | | 12.5 | >30% | 110.0% | |
| | M4-PFOS | | P070824011 | | bs | | | | 24.0 | >30% | 133.2% | |

Peak Flags MM1* MM-;r R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | LLOPR_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | LLOPR_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:01 | Split Factor | N/A |
| SampleType | Control | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724038 | 14.0 | bb | 7.20 | 8.00 | 1.88 | 8.00 | 70-140% | 87.8% | |
| | PFPeA | 2706-90-3 | P290724038 | 7.20 | bb1* | 3.60 | 4.00 | 0.629 | 4.00 | 65-135% | 90.0% | |
| | PFHxA | 307-24-4 | P290724038 | 3.60 | bb | 1.80 | 2.00 | 0.660 | 2.00 | 70-145% | 89.9% | |
| | PFHpA | 375-85-9 | P290724038 | 3.40 | bb | 1.80 | 2.00 | 0.603 | 2.00 | 70-150% | 85.0% | |
| | PFOA | 335-67-1 | P290724038 | 3.55 | bb | 1.80 | 2.00 | 0.490 | 2.00 | 70-150% | 88.6% | |
| | PFNA | 375-95-1 | P290724038 | 3.57 | bb | 1.80 | 2.00 | 0.383 | 2.00 | 70-150% | 89.3% | |
| | PFDA | 335-76-2 | P290724038 | 3.51 | bb | 1.80 | 2.00 | 0.911 | 2.00 | 70-140% | 87.7% | |
| | PFUnDA | 2058-94-8 | P290724038 | 3.60 | bb | 1.80 | 2.00 | 0.676 | 2.00 | 70-145% | 90.0% | |
| | PFDoA | 307-55-1 | P290724038 | 3.64 | bb | 1.80 | 2.00 | 0.676 | 2.00 | 70-140% | 90.9% | |
| | PFTrDA | 72629-94-8 | P290724038 | 3.38 | bb | 1.80 | 2.00 | 0.688 | 2.00 | 65-140% | 84.6% | |
| | PFTeDA | 376-06-7 | P290724038 | 3.57 | bb | 1.80 | 2.00 | 0.515 | 2.00 | 60-140% | 89.4% | |
| Sulfonates | PFBS | 375-73-5 | P290724038 | 2.98 | bb | 1.60 | 1.77 | 0.383 | 1.77 | 60-145% | 83.9% | |
| | PFPeS | 2706-91-4 | P290724038 | 3.18 | bb | 1.69 | 1.88 | 0.512 | 1.88 | 65-140% | 84.4% | |
| | PFHxS | 355-46-4 | P290724038 | 3.09 | MM1* | 1.65 | 1.83 | 0.773 | 1.83 | 65-145% | 84.4% | |
| | PFHpS | 375-92-8 | P290724038 | 3.33 | MM1* | 1.72 | 1.91 | 0.660 | 1.91 | 70-150% | 87.3% | |
| | PFOS | 1763-23-1 | P290724038 | 3.15 | MM | 1.67 | 1.86 | 0.704 | 1.86 | 55-150% | 84.8% | |
| | PFNS | 68259-12-1 | P290724038 | 3.09 | bb | 1.73 | 1.92 | 0.468 | 1.92 | 65-145% | 80.4% | |
| | PFDS | 335-77-3 | P290724038 | 3.01 | bb | 1.74 | 1.93 | 0.174 | 1.93 | 60-145% | 78.0% | |
| | PFDoS | 79780-39-5 | P290724038 | 3.09 | bb | 1.75 | 1.94 | 0.481 | 1.94 | 50-145% | 79.6% | |
| | 4:2 FTS | 757124-72-4 | P290724038 | 13.2 | bb | 6.75 | 7.50 | 3.14 | 7.50 | 70-145% | 87.7% | |
| | 6:2 FTS | 27619-97-2 | P290724038 | 13.3 | bb | 6.84 | 7.60 | 1.89 | 7.60 | 65-155% | 87.3% | |
| | 8:2 FTS | 39108-34-4 | P290724038 | 13.7 | bb | 6.91 | 7.68 | 4.81 | 7.68 | 60-150% | 89.1% | |
| Sulfonmides | PFOSA | 754-91-6 | P290724038 | 3.51 | bb | 1.80 | 2.00 | 0.189 | 2.00 | 70-145% | 87.7% | |
| | N-MeFOSA | 31506-32-8 | P290724038 | 3.46 | bb | 1.80 | 2.00 | 0.550 | 2.00 | 60-150% | 86.6% | |
| | N-EtFOSA | 4151-50-2 | P290724038 | 3.49 | bb | 1.80 | 2.00 | 1.37 | 2.00 | 65-145% | 87.2% | |
| | N-MeFOSE | 24448-09-7 | P290724038 | 36.8 | bb | 18.0 | 20.0 | 3.17 | 20.0 | 70-145% | 92.0% | |
| | N-EtFOSE | 1691-99-2 | P290724038 | 37.5 | bb | 18.0 | 20.0 | 2.69 | 20.0 | 70-135% | 93.8% | |
| PFECAs | HFPO-DA | 13252-13-6 | P290724038 | 15.0 | bb | 7.20 | 8.00 | 2.32 | 8.00 | 70-140% | 93.5% | |
| | PFMBA | 863090-89-5 | P290724038 | 7.03 | bb | 3.60 | 4.00 | 1.64 | 4.00 | 60-150% | 87.9% | |
| | PFMPA | 377-73-1 | P290724038 | 7.07 | bb | 3.60 | 4.00 | 0.751 | 4.00 | 55-140% | 88.4% | |
| | NFDHA | 151772-58-6 | P290724038 | 7.45 | bb | 3.60 | 4.00 | 2.02 | 4.00 | 50-150% | 93.1% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724038 | 18.6 | bb | 9.00 | 10.0 | 1.19 | 10.0 | 65-130% | 93.2% | |
| | 5:3 FTCA | 914637-49-3 | P290724038 | 18.5 | bb | 9.00 | 10.0 | 2.92 | 10.0 | 70-135% | 92.5% | |
| | 7:3 FTCA | 812-70-4 | P290724038 | 17.5 | bb | 9.00 | 10.0 | 2.02 | 10.0 | 50-145% | 87.5% | |
| Other | ADONA | 919005-14-4 | P290724038 | 13.5 | bs | 6.80 | 7.56 | 1.68 | 7.56 | 65-145% | 89.2% | |
| | 9Cl-PF3ONS | 756426-58-1 | P290724038 | 13.2 | bb | 6.73 | 7.48 | 2.13 | 7.48 | 70-155% | 87.9% | |
| | N-MeFOSAA | 2355-31-9 | P290724038 | 3.47 | MM1* | 1.80 | 2.00 | 1.02 | 2.00 | 50-140% | 86.8% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724038 | 13.3 | bb | 6.80 | 7.56 | 1.70 | 7.56 | 55-160% | 87.9% | |
| | N-EtFOSAA | 2991-50-6 | P290724038 | 3.45 | MM1* | 1.80 | 2.00 | 0.968 | 2.00 | 70-145% | 86.1% | |
| | PFEESA | 113507-82-7 | P290724038 | 6.14 | bb | 3.20 | 3.56 | 0.632 | 3.56 | 70-140% | 86.2% | |
| ES | M4PFBA | | P290724038 | | bb | | | | 100 | 5-130% | 92.7% | |
| | M5PFPeA | | P290724038 | | bs | | | | 50.0 | 40-130% | 92.4% | |
| | M5PFHxA | | P290724038 | | bs | | | | 25.0 | 40-130% | 95.0% | |
| | M4PFHpA | | P290724038 | | bb | | | | 25.0 | 40-130% | 94.2% | |
| | M8PFOA | | P290724038 | | bs | | | | 25.0 | 40-130% | 90.3% | |
| | M9PFNA | | P290724038 | | bb | | | | 12.5 | 40-130% | 93.5% | |
| | M6PFDA | | P290724038 | | bb | | | | 12.5 | 40-130% | 92.8% | |
| | M7PFUdA | | P290724038 | | bb | | | | 12.5 | 30-130% | 86.2% | |
| | M2-PFDoA | | P290724038 | | bs | | | | 12.5 | 10-130% | 87.9% | |
| | 13C2-PFTeDA | | P290724038 | | bb | | | | 12.5 | 10-130% | 78.0% | |
| | M3PFBS | | P290724038 | | bb | | | | 23.3 | 40-135% | 92.8% | |
| | M3PFHxS | | P290724038 | | bb | | | | 23.7 | 40-130% | 88.6% | |
| | M8PFOS | | P290724038 | | bs | | | | 24.0 | 40-130% | 91.6% | |
| | M2-4:2 FTS | | P290724038 | | bb | | | | 46.9 | 40-200% | 88.0% | |
| | M2-6:2 FTS | | P290724038 | | bb | | | | 47.6 | 40-200% | 78.8% | |
| | M2-8:2 FTS | | P290724038 | | bb | | | | 48.0 | 40-300% | 77.8% | |
| | M8PFOSA | | P290724038 | | bs | | | | 25.0 | 40-130% | 89.8% | |
| | d3-N-MeFOSA | | P290724038 | | bb | | | | 25.0 | 10-130% | 57.3% | |
| | d5-N-EtFOSA | | P290724038 | | bb | | | | 25.0 | 10-130% | 59.8% | |
| | d3-N-MeFOSAA | | P290724038 | | bb | | | | 50.0 | 40-170% | 85.5% | |
| | d5-N-EtFOSAA | | P290724038 | | bb | | | | 50.0 | 25-135% | 80.4% | |
| | d7-N-MeFOSE | | P290724038 | | bb | | | | 250 | 10-130% | 87.2% | |
| | d9-N-EtFOSE | | P290724038 | | bb | | | | 250 | 10-130% | 83.4% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | LLOPR_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | LLOPR_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:01 | Split Factor | N/A |
| SampleType | Control | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724038 | | bb | | | | 100 | 40-130% | 94.2% | |
| JS | M3PFBA | | P290724038 | | bb | | | | 50.0 | >30% | 137.4% | |
| | M2-PFHxA | | P290724038 | | bb | | | | 25.0 | >30% | 133.8% | |
| | M4-PFOA | | P290724038 | | bb | | | | 25.0 | >30% | 134.9% | |
| | M5-PFNA | | P290724038 | | bb | | | | 12.5 | >30% | 124.8% | |
| | M2-PFDA | | P290724038 | | bb | | | | 12.5 | >30% | 133.6% | |
| | 18O2PFHxS | | P290724038 | | bs | | | | 23.7 | >30% | 143.7% | |
| | M4-PFOS | | P290724038 | | bs | | | | 24.0 | >30% | 135.6% | |

Peak Flags  bb1*  bb;R JDG 7/30/24
MM1*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | OPR_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | OPR_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:24 | Split Factor | N/A |
| SampleType | Control | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724039 | 89.2 | bb | 7.20 | 8.00 | 1.88 | 50.0 | 70-140% | 89.2% | |
| | PFPeA | 2706-90-3 | P290724039 | 44.5 | bb1* | 3.60 | 4.00 | 0.629 | 25.0 | 65-135% | 89.0% | |
| | PFHxA | 307-24-4 | P290724039 | 22.4 | bb | 1.80 | 2.00 | 0.660 | 12.5 | 70-145% | 89.6% | |
| | PFHpA | 375-85-9 | P290724039 | 21.9 | bb | 1.80 | 2.00 | 0.603 | 12.5 | 70-150% | 87.7% | |
| | PFOA | 335-67-1 | P290724039 | 23.6 | bs | 1.80 | 2.00 | 0.490 | 12.5 | 70-150% | 94.6% | |
| | PFNA | 375-95-1 | P290724039 | 23.2 | bb | 1.80 | 2.00 | 0.383 | 12.5 | 70-150% | 92.9% | |
| | PFDA | 335-76-2 | P290724039 | 22.1 | bb | 1.80 | 2.00 | 0.911 | 12.5 | 70-140% | 88.4% | |
| | PFUnDA | 2058-94-8 | P290724039 | 23.8 | bs | 1.80 | 2.00 | 0.676 | 12.5 | 70-145% | 95.1% | |
| | PFDoA | 307-55-1 | P290724039 | 22.6 | bb | 1.80 | 2.00 | 0.676 | 12.5 | 70-140% | 90.3% | |
| | PFTrDA | 72629-94-8 | P290724039 | 21.2 | bb | 1.80 | 2.00 | 0.688 | 12.5 | 65-140% | 84.9% | |
| | PFTeDA | 376-06-7 | P290724039 | 21.7 | bb | 1.80 | 2.00 | 0.515 | 12.5 | 60-140% | 86.6% | |
| Sulfonates | PFBS | 375-73-5 | P290724039 | 19.2 | bb | 1.60 | 1.77 | 0.383 | 11.1 | 60-145% | 86.7% | |
| | PFPeS | 2706-91-4 | P290724039 | 20.9 | bb | 1.69 | 1.88 | 0.512 | 11.8 | 65-140% | 89.0% | |
| | PFHxS | 355-46-4 | P290724039 | 19.7 | MM1* | 1.65 | 1.83 | 0.773 | 11.4 | 65-145% | 86.0% | |
| | PFHpS | 375-92-8 | P290724039 | 21.8 | MM1* | 1.72 | 1.91 | 0.660 | 11.9 | 70-150% | 91.4% | |
| | PFOS | 1763-23-1 | P290724039 | 19.7 | MM1* | 1.67 | 1.86 | 0.704 | 11.6 | 55-150% | 85.1% | |
| | PFNS | 68259-12-1 | P290724039 | 21.6 | bb | 1.73 | 1.92 | 0.468 | 12.0 | 65-145% | 89.8% | |
| | PFDS | 335-77-3 | P290724039 | 20.0 | bb | 1.74 | 1.93 | 0.174 | 12.1 | 60-145% | 82.9% | |
| | PFDoS | 79780-39-5 | P290724039 | 20.1 | bb | 1.75 | 1.94 | 0.481 | 12.1 | 50-145% | 82.9% | |
| | 4:2 FTS | 757124-72-4 | P290724039 | 82.0 | bb | 6.75 | 7.50 | 3.14 | 46.9 | 70-145% | 87.4% | |
| | 6:2 FTS | 27619-97-2 | P290724039 | 81.5 | bb | 6.84 | 7.60 | 1.89 | 47.5 | 65-155% | 85.8% | |
| | 8:2 FTS | 39108-34-4 | P290724039 | 88.1 | bb | 6.91 | 7.68 | 4.81 | 48.0 | 60-150% | 91.8% | |
| Sulfonmides | PFOSA | 754-91-6 | P290724039 | 21.4 | bb | 1.80 | 2.00 | 0.189 | 12.5 | 70-145% | 85.7% | |
| | N-MeFOSA | 31506-32-8 | P290724039 | 22.9 | bb | 1.80 | 2.00 | 0.550 | 12.5 | 60-150% | 91.6% | |
| | N-EtFOSA | 4151-50-2 | P290724039 | 21.9 | bb | 1.80 | 2.00 | 1.37 | 12.5 | 65-145% | 87.8% | |
| | N-MeFOSE | 24448-09-7 | P290724039 | 229 | bb | 18.0 | 20.0 | 3.17 | 125 | 70-145% | 91.6% | |
| | N-EtFOSE | 1691-99-2 | P290724039 | 228 | bb | 18.0 | 20.0 | 2.69 | 125 | 70-135% | 91.1% | |
| Other | ADONA | 919005-14-4 | P290724039 | 82.4 | bs | 6.80 | 7.56 | 1.68 | 47.3 | 65-145% | 87.2% | |
| | 9Cl-PF3ONS | 756426-58-1 | P290724039 | 89.5 | bs | 6.73 | 7.48 | 2.13 | 46.8 | 70-155% | 95.8% | |
| | N-MeFOSAA | 2355-31-9 | P290724039 | 24.4 | MM1* | 1.80 | 2.00 | 1.02 | 12.5 | 50-140% | 97.7% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724039 | 86.2 | bs | 6.80 | 7.56 | 1.70 | 47.3 | 55-160% | 91.2% | |
| | N-EtFOSAA | 2991-50-6 | P290724039 | 22.5 | MM1* | 1.80 | 2.00 | 0.968 | 12.5 | 70-145% | 89.9% | |
| | PFEESA | 113507-82-7 | P290724039 | 40.4 | bs | 3.20 | 3.56 | 0.632 | 22.3 | 70-140% | 90.8% | |
| PFECAs | HFPO-DA | 13252-13-6 | P290724039 | 92.1 | bs | 7.20 | 8.00 | 2.32 | 50.0 | 70-140% | 92.1% | |
| | PFMBA | 863090-89-5 | P290724039 | 44.2 | bb | 3.60 | 4.00 | 1.64 | 25.0 | 60-150% | 88.4% | |
| | PFMPA | 377-73-1 | P290724039 | 44.6 | bb | 3.60 | 4.00 | 0.751 | 25.0 | 55-140% | 89.3% | |
| | NFDHA | 151772-58-6 | P290724039 | 47.3 | bb | 3.60 | 4.00 | 2.02 | 25.0 | 50-150% | 94.6% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724039 | 116 | bb | 9.00 | 10.0 | 1.19 | 62.5 | 65-130% | 92.9% | |
| | 5:3 FTCA | 914637-49-3 | P290724039 | 117 | bb | 9.00 | 10.0 | 2.92 | 62.5 | 70-135% | 93.3% | |
| | 7:3 FTCA | 812-70-4 | P290724039 | 113 | bs | 9.00 | 10.0 | 2.02 | 62.5 | 50-145% | 90.4% | |
| ES | M4PFBA | | P290724039 | | bb | | | | 100 | 5-130% | 93.2% | |
| | M5PFPeA | | P290724039 | | bs | | | | 50.0 | 40-130% | 93.0% | |
| | M5PFHxA | | P290724039 | | bb | | | | 25.0 | 40-130% | 90.4% | |
| | M4PFHpA | | P290724039 | | bs | | | | 25.0 | 40-130% | 97.0% | |
| | M8PFOA | | P290724039 | | bb | | | | 25.0 | 40-130% | 89.5% | |
| | M9PFNA | | P290724039 | | bb | | | | 12.5 | 40-130% | 90.5% | |
| | M6PFDA | | P290724039 | | bb | | | | 12.5 | 40-130% | 91.6% | |
| | M7PFUdA | | P290724039 | | bb | | | | 12.5 | 30-130% | 87.1% | |
| | M2-PFDoA | | P290724039 | | bb | | | | 12.5 | 10-130% | 89.9% | |
| | 13C2-PFTeDA | | P290724039 | | bb | | | | 12.5 | 10-130% | 88.1% | |
| | M3PFBS | | P290724039 | | bb | | | | 23.3 | 40-135% | 89.7% | |
| | M3PFHxS | | P290724039 | | bs | | | | 23.7 | 40-130% | 95.4% | |
| | M8PFOS | | P290724039 | | bb | | | | 24.0 | 40-130% | 88.1% | |
| | M2-4:2 FTS | | P290724039 | | bb | | | | 46.9 | 40-200% | 89.2% | |
| | M2-6:2 FTS | | P290724039 | | bs | | | | 47.6 | 40-200% | 80.8% | |
| | M2-8:2 FTS | | P290724039 | | bb | | | | 48.0 | 40-300% | 71.4% | |
| | M8PFOSA | | P290724039 | | bb | | | | 25.0 | 40-130% | 90.6% | |
| | d3-N-MeFOSA | | P290724039 | | bb | | | | 25.0 | 10-130% | 59.3% | |
| | d5-N-EtFOSA | | P290724039 | | bb | | | | 25.0 | 10-130% | 61.9% | |
| | d3-N-MeFOSAA | | P290724039 | | bb | | | | 50.0 | 40-170% | 77.6% | |
| | d5-N-EtFOSAA | | P290724039 | | bb | | | | 50.0 | 25-135% | 77.7% | |
| | d7-N-MeFOSE | | P290724039 | | bb | | | | 250 | 10-130% | 91.4% | |
| | d9-N-EtFOSE | | P290724039 | | bb | | | | 250 | 10-130% | 88.0% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | OPR_17848_PFAS | | |
| Sampling Site | | | |
| Enthalpy ID | OPR_17848_PFAS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 500 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 01:24 | Split Factor | N/A |
| SampleType | Control | Method Code | Eu-062 |
| Bottle ID | - | | |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724039 | | bs | | | | 100 | 40-130% | 102.2% | |
| JS | M3PFBA | | P290724039 | | bb | | | | 50.0 | >30% | 154.7% | |
| | M2-PFHxA | | P290724039 | | bb | | | | 25.0 | >30% | 153.2% | |
| | M4-PFOA | | P290724039 | | bb | | | | 25.0 | >30% | 144.2% | |
| | M5-PFNA | | P290724039 | | bb | | | | 12.5 | >30% | 136.1% | |
| | M2-PFDA | | P290724039 | | bb | | | | 12.5 | >30% | 144.0% | |
| | 18O2PFHxS | | P290724039 | | bb | | | | 23.7 | >30% | 149.8% | |
| | M4-PFOS | | P290724039 | | bb | | | | 24.0 | >30% | 151.1% | |

Peak Flags  bb1*  bb;R JDG 7/30/24
MM1*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | LLOPR_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | LLOPR_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 07:48 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724038 | 1.42 | bb | 0.720 | 0.800 | 0.188 | 8.00 | 70-140% | 89.0% | |
| | PFPeA | 2706-90-3 | P310724038 | 0.738 | bb1* | 0.360 | 0.400 | 0.0629 | 4.00 | 60-150% | 92.2% | |
| | PFHxA | 307-24-4 | P310724038 | 0.380 | bb | 0.180 | 0.200 | 0.0660 | 2.00 | 65-140% | 95.0% | |
| | PFHpA | 375-85-9 | P310724038 | 0.340 | bb | 0.180 | 0.200 | 0.0603 | 2.00 | 65-145% | 85.1% | |
| | PFOA | 335-67-1 | P310724038 | 0.377 | bb | 0.180 | 0.200 | 0.0490 | 2.00 | 70-150% | 94.3% | |
| | PFNA | 375-95-1 | P310724038 | 0.408 | bb | 0.180 | 0.200 | 0.0383 | 2.00 | 70-155% | 102.1% | |
| | PFDA | 335-76-2 | P310724038 | 0.350 | bb | 0.180 | 0.200 | 0.0911 | 2.00 | 70-155% | 87.6% | |
| | PFUnDA | 2058-94-8 | P310724038 | 0.370 | bb | 0.180 | 0.200 | 0.0676 | 2.00 | 70-155% | 92.5% | |
| | PFDoA | 307-55-1 | P310724038 | 0.352 | bb | 0.180 | 0.200 | 0.0676 | 2.00 | 70-150% | 88.1% | |
| | PFTrDA | 72629-94-8 | P310724038 | 0.340 | bb | 0.180 | 0.200 | 0.0688 | 2.00 | 65-150% | 85.1% | |
| | PFTeDA | 376-06-7 | P310724038 | 0.364 | bb | 0.180 | 0.200 | 0.0515 | 2.00 | 65-150% | 90.9% | |
| Sulfonates | PFBS | 375-73-5 | P310724038 | 0.292 | bb | 0.160 | 0.177 | 0.0383 | 1.77 | 65-145% | 82.3% | |
| | PFPeS | 2706-91-4 | P310724038 | 0.340 | bb | 0.169 | 0.188 | 0.0512 | 1.88 | 55-160% | 90.4% | |
| | PFHxS | 355-46-4 | P310724038 | 0.337 | MM1* | 0.165 | 0.183 | 0.0773 | 1.83 | 60-150% | 92.1% | |
| | PFHpS | 375-92-8 | P310724038 | 0.327 | bb | 0.172 | 0.191 | 0.0660 | 1.91 | 65-155% | 85.7% | |
| | PFOS | 1763-23-1 | P310724038 | 0.313 | MM1* | 0.167 | 0.186 | 0.0704 | 1.86 | 65-160% | 84.4% | |
| | PFNS | 68259-12-1 | P310724038 | 0.281 | bb | 0.173 | 0.192 | 0.0468 | 1.92 | 55-140% | 73.1% | |
| | PFDS | 335-77-3 | P310724038 | 0.302 | bb | 0.174 | 0.193 | 0.0174 | 1.93 | 40-155% | 78.3% | |
| | 4:2 FTS | 757124-72-4 | P310724038 | 1.28 | bb | 0.675 | 0.750 | 0.314 | 7.50 | 60-150% | 85.6% | |
| | PFDoS | 79780-39-5 | P310724038 | 0.296 | bb | 0.175 | 0.194 | 0.0481 | 1.94 | 25-160% | 76.4% | |
| | 6:2 FTS | 27619-97-2 | P310724038 | 1.36 | bb | 0.684 | 0.760 | 0.189 | 7.60 | 55-200% | 89.2% | |
| | 8:2 FTS | 39108-34-4 | P310724038 | 1.30 | bb | 0.691 | 0.768 | 0.481 | 7.68 | 70-150% | 84.9% | |
| Sulfonmides | PFOSA | 754-91-6 | P310724038 | 0.348 | bb | 0.180 | 0.200 | 0.0189 | 2.00 | 70-140% | 86.9% | |
| | N-MeFOSA | 31506-32-8 | P310724038 | 0.483 | bb | 0.180 | 0.200 | 0.0550 | 2.00 | 70-155% | 120.6% | |
| | N-EtFOSA | 4151-50-2 | P310724038 | 0.452 | bb | 0.180 | 0.200 | 0.137 | 2.00 | 70-140% | 113.0% | |
| | N-MeFOSE | 24448-09-7 | P310724038 | 3.68 | bb | 1.80 | 2.00 | 0.317 | 20.0 | 70-140% | 92.0% | |
| | N-EtFOSE | 1691-99-2 | P310724038 | 3.71 | bb | 1.80 | 2.00 | 0.269 | 20.0 | 70-135% | 92.6% | |
| PFECAs | HFPO-DA | 13252-13-6 | P310724038 | 1.50 | bb | 0.720 | 0.800 | 0.232 | 8.00 | 70-145% | 93.8% | |
| | PFMBA | 863090-89-5 | P310724038 | 0.726 | bb | 0.360 | 0.400 | 0.164 | 4.00 | 60-150% | 90.7% | |
| | PFMPA | 377-73-1 | P310724038 | 0.676 | bb | 0.360 | 0.400 | 0.0751 | 4.00 | 30-140% | 84.5% | |
| | NFDHA | 151772-58-6 | P020824012 | 0.870 | bb | 0.360 | 0.400 | 0.202 | 4.00 | 60-155% | 108.8% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724038 | 1.69 | bb | 0.900 | 1.00 | 0.119 | 10.0 | 45-130% | 84.4% | |
| | 5:3 FTCA | 914637-49-3 | P310724038 | 1.75 | bb | 0.900 | 1.00 | 0.292 | 10.0 | 60-130% | 87.5% | |
| | 7:3 FTCA | 812-70-4 | P310724038 | 1.33 | bb | 0.900 | 1.00 | 0.202 | 10.0 | 60-150% | 66.6% | |
| Other | ADONA | 919005-14-4 | P310724038 | 1.12 | bb | 0.680 | 0.756 | 0.168 | 7.56 | 70-160% | 74.3% | |
| | 9Cl-PF3ONS | 756426-58-1 | P310724038 | 1.41 | bb | 0.673 | 0.748 | 0.213 | 7.48 | 70-150% | 93.9% | |
| | N-MeFOSAA | 2355-31-9 | P310724038 | 0.377 | MM1* | 0.180 | 0.200 | 0.102 | 2.00 | 65-155% | 94.2% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724038 | 1.26 | bb | 0.680 | 0.756 | 0.170 | 7.56 | 45-160% | 83.1% | |
| | N-EtFOSAA | 2991-50-6 | P310724038 | 0.317 | MM1* | 0.180 | 0.200 | 0.0968 | 2.00 | 65-165% | 79.2% | |
| | PFEESA | 113507-82-7 | P310724038 | 0.654 | bb | 0.320 | 0.356 | 0.0632 | 3.56 | 70-140% | 91.8% | |
| ES | M4PFBA | | P310724038 | | bb | | | | 100 | 8-130% | 94.7% | |
| | M5PFPeA | | P310724038 | | bs | | | | 50.0 | 35-130% | 96.8% | |
| | M5PFHxA | | P310724038 | | bb | | | | 25.0 | 40-130% | 94.4% | |
| | M4PFHpA | | P310724038 | | bb | | | | 25.0 | 40-130% | 99.0% | |
| | M8PFOA | | P310724038 | | bb | | | | 25.0 | 40-130% | 88.9% | |
| | M9PFNA | | P310724038 | | bs | | | | 12.5 | 40-130% | 87.9% | |
| | M6PFDA | | P310724038 | | bb | | | | 12.5 | 40-130% | 84.9% | |
| | M7PFUdA | | P310724038 | | bb | | | | 12.5 | 40-130% | 75.1% | |
| | M2-PFDoA | | P310724038 | | bs | | | | 12.5 | 40-130% | 78.7% | |
| | 13C2-PFTeDA | | P310724038 | | bb | | | | 12.5 | 20-130% | 72.3% | |
| | M3PFBS | | P310724038 | | bb | | | | 23.3 | 40-135% | 100.2% | |
| | M3PFHxS | | P310724038 | | bb | | | | 23.7 | 40-130% | 93.7% | |
| | M8PFOS | | P310724038 | | bb | | | | 24.0 | 40-130% | 83.1% | |
| | M2-4:2 FTS | | P310724038 | | bb | | | | 46.9 | 40-165% | 80.3% | |
| | M2-6:2 FTS | | P020824012 | | bb | | | | 47.6 | 40-215% | 93.2% | |
| | M2-8:2 FTS | | P310724038 | | bb | | | | 48.0 | 40-275% | 65.0% | |
| | M8PFOSA | | P310724038 | | bb | | | | 25.0 | 40-130% | 71.1% | |
| | d3-N-MeFOSA | | P310724038 | | bb | | | | 25.0 | 10-130% | 33.6% | |
| | d5-N-EtFOSA | | P310724038 | | bb | | | | 25.0 | 10-130% | 29.2% | |
| | d3-N-MeFOSAA | | P310724038 | | bb | | | | 50.0 | 40-135% | 69.4% | |
| | d5-N-EtFOSAA | | P310724038 | | bs | | | | 50.0 | 40-150% | 70.7% | |
| | d7-N-MeFOSE | | P310724038 | | bb | | | | 250 | 20-130% | 59.8% | |
| | d9-N-EtFOSE | | P310724038 | | bb | | | | 250 | 15-130% | 53.8% | |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | LLOPR_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | LLOPR_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 07:48 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P310724038 | | bs | | | | 100 | 40-130% | 123.1% | |
| JS | M3PFBA | | P310724038 | | bb | | | | 50.0 | >30% | 108.1% | |
| | M2-PFHxA | | P310724038 | | bb | | | | 25.0 | >30% | 105.6% | |
| | M4-PFOA | | P310724038 | | bb | | | | 25.0 | >30% | 104.2% | |
| | M5-PFNA | | P310724038 | | bs | | | | 12.5 | >30% | 91.5% | |
| | M2-PFDA | | P310724038 | | bb | | | | 12.5 | >30% | 101.9% | |
| | 18O2PFHxS | | P310724038 | | bs | | | | 23.7 | >30% | 121.2% | |
| | M4-PFOS | | P310724038 | | bb | | | | 24.0 | >30% | 120.3% | |

Peak Flags
bb1* bb;n R.H.H. 08/02/2024
MM1* MM;c R.H.H. 08/02/2024

Primary Code
b: Peak starts or ends on the baseline
d: Peak starts or ends on a drop line
v: peak starts or ends on a valley
s: Peak is a shoulder on another peak
!: Flagged peak
l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
t: Peak starts or ends at the start or end of the trace
M: The peak start or end point was manually altered
-: The peak was manually deleted
X: Point manually excluded from the calibration curve

Secondary Code
n: Peak was not integrated by the software
c: Peak was integrated incorrectly by the software
r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | LLOPR_17914_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | LLOPR_17914_PFAS | Prep Batch | EU17914 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 1 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 1 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 1 |
| AnalysisDate | 2024-08-07 18:45 | Split Factor | N/A | Dry Weight (g) | 1 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824012 | 1.60 | MM1* | 0.720 | 0.800 | 0.188 | 8.00 | 70-140% | 99.9% | |
| | PFDA | 335-76-2 | P070824012 | 0.386 | bb | 0.180 | 0.200 | 0.0911 | 2.00 | 70-155% | 96.5% | |
| | PFUnDA | 2058-94-8 | P070824012 | 0.389 | bb | 0.180 | 0.200 | 0.0676 | 2.00 | 70-155% | 97.1% | |
| | PFDoA | 307-55-1 | P070824012 | 0.366 | bb | 0.180 | 0.200 | 0.0676 | 2.00 | 70-150% | 91.6% | |
| | PFTrDA | 72629-94-8 | P070824012 | 0.347 | bb | 0.180 | 0.200 | 0.0688 | 2.00 | 65-150% | 86.7% | |
| | PFTeDA | 376-06-7 | P070824012 | 0.377 | bb | 0.180 | 0.200 | 0.0515 | 2.00 | 65-150% | 94.3% | |
| Sulfonates | PFBS | 375-73-5 | P070824012 | 0.321 | bb | 0.160 | 0.177 | 0.0383 | 1.77 | 65-145% | 90.4% | |
| | PFHpS | 375-92-8 | P070824012 | 0.315 | bb | 0.172 | 0.191 | 0.0660 | 1.91 | 65-155% | 82.5% | |
| | PFOS | 1763-23-1 | P070824012 | 0.305 | MM1* | 0.167 | 0.186 | 0.0704 | 1.86 | 65-160% | 82.1% | |
| | 8:2 FTS | 39108-34-4 | P070824012 | 1.35 | bb | 0.691 | 0.768 | 0.481 | 7.68 | 70-150% | 87.8% | |
| Sulfonmides | PFOSA | 754-91-6 | P070824012 | 0.377 | bb | 0.180 | 0.200 | 0.0189 | 2.00 | 70-140% | 94.4% | |
| | N-MeFOSA | 31506-32-8 | P070824012 | 0.435 | bb | 0.180 | 0.200 | 0.0550 | 2.00 | 70-155% | 108.7% | |
| | N-EtFOSA | 4151-50-2 | P070824012 | 0.387 | bb | 0.180 | 0.200 | 0.137 | 2.00 | 70-140% | 96.8% | |
| | N-MeFOSE | 24448-09-7 | P070824012 | 3.92 | bb | 1.80 | 2.00 | 0.317 | 20.0 | 70-140% | 98.0% | |
| | N-EtFOSE | 1691-99-2 | P070824012 | 3.80 | bb | 1.80 | 2.00 | 0.269 | 20.0 | 70-135% | 95.0% | |
| PFECAs | HFPO-DA | 13252-13-6 | P070824012 | 1.64 | MM1* | 0.720 | 0.800 | 0.232 | 8.00 | 70-145% | 102.6% | |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824012 | 1.76 | bb | 0.900 | 1.00 | 0.202 | 10.0 | 60-150% | 87.9% | |
| Other | ADONA | 919005-14-4 | P070824012 | 1.33 | bb | 0.680 | 0.756 | 0.168 | 7.56 | 70-160% | 87.9% | |
| ES | M4PFBA | | P070824012 | | bb | | | | 100 | 8-130% | 62.9% | |
| | M5PFHxA | | P070824012 | | bb | | | | 25.0 | 40-130% | 81.6% | |
| | M6PFDA | | P070824012 | | bb | | | | 12.5 | 40-130% | 79.6% | |
| | M7PFUdA | | P070824012 | | bb | | | | 12.5 | 40-130% | 73.7% | |
| | M2-PFDoA | | P070824012 | | bb | | | | 12.5 | 40-130% | 79.1% | |
| | 13C2-PFTeDA | | P070824012 | | bb | | | | 12.5 | 20-130% | 72.2% | |
| | M3PFBS | | P070824012 | | bb | | | | 23.3 | 40-135% | 82.5% | |
| | M8PFOS | | P070824012 | | bb | | | | 24.0 | 40-130% | 83.0% | |
| | M2-8:2 FTS | | P070824012 | | bb | | | | 48.0 | 40-275% | 77.8% | |
| | M8PFOSA | | P070824012 | | bs | | | | 25.0 | 40-130% | 76.2% | |
| | d3-N-MeFOSA | | P070824012 | | bb | | | | 25.0 | 10-130% | 74.7% | |
| | d5-N-EtFOSA | | P070824012 | | bb | | | | 25.0 | 10-130% | 73.6% | |
| | d7-N-MeFOSE | | P070824012 | | bb | | | | 250 | 20-130% | 74.4% | |
| | d9-N-EtFOSE | | P070824012 | | bb | | | | 250 | 15-130% | 71.3% | |
| | M3HFPO-DA | | P070824012 | | bb | | | | 100 | 40-130% | 98.1% | |
| JS | M3PFBA | | P070824012 | | bb | | | | 50.0 | >30% | 118.2% | |
| | M2-PFHxA | | P070824012 | | bb | | | | 25.0 | >30% | 114.2% | |
| | M2-PFDA | | P070824012 | | bb | | | | 12.5 | >30% | 112.0% | |
| | M4-PFOS | | P070824012 | | bb | | | | 24.0 | >30% | 131.5% | |

Peak Flags MM1* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | OPR_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | OPR_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 08:11 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724039 | 6.68 | MM1* | 0.720 | 0.800 | 0.188 | 50.0 | 70-140% | 66.8% | Q |
| | PFPeA | 2706-90-3 | P310724039 | 3.41 | bb1* | 0.360 | 0.400 | 0.0629 | 25.0 | 60-150% | 68.3% | |
| | PFHxA | 307-24-4 | P310724039 | 1.70 | bb | 0.180 | 0.200 | 0.0660 | 12.5 | 65-140% | 68.0% | |
| | PFHpA | 375-85-9 | P310724039 | 1.66 | bb | 0.180 | 0.200 | 0.0603 | 12.5 | 65-145% | 66.4% | |
| | PFOA | 335-67-1 | P020824013 | 1.76 | bb | 0.180 | 0.200 | 0.0490 | 12.5 | 70-150% | 70.3% | |
| | PFNA | 375-95-1 | P310724039 | 1.83 | bb | 0.180 | 0.200 | 0.0383 | 12.5 | 70-155% | 73.4% | |
| | PFDA | 335-76-2 | P310724039 | 1.62 | bb | 0.180 | 0.200 | 0.0911 | 12.5 | 70-155% | 64.6% | Q |
| | PFUnDA | 2058-94-8 | P310724039 | 1.64 | bb | 0.180 | 0.200 | 0.0676 | 12.5 | 70-155% | 65.8% | Q |
| | PFDoA | 307-55-1 | P310724039 | 1.52 | bb | 0.180 | 0.200 | 0.0676 | 12.5 | 70-150% | 61.0% | Q |
| | PFTrDA | 72629-94-8 | P310724039 | 1.50 | bb | 0.180 | 0.200 | 0.0688 | 12.5 | 65-150% | 60.1% | Q |
| | PFTeDA | 376-06-7 | P310724039 | 1.57 | bb | 0.180 | 0.200 | 0.0515 | 12.5 | 65-150% | 62.8% | Q |
| Sulfonates | PFBS | 375-73-5 | P310724039 | 1.39 | bb | 0.160 | 0.177 | 0.0383 | 11.1 | 65-145% | 62.5% | Q |
| | PFPeS | 2706-91-4 | P310724039 | 1.60 | bb | 0.169 | 0.188 | 0.0512 | 11.8 | 55-160% | 68.2% | |
| | PFHxS | 355-46-4 | P310724039 | 1.45 | MM1* | 0.165 | 0.183 | 0.0773 | 11.4 | 60-150% | 63.3% | |
| | PFHpS | 375-92-8 | P310724039 | 1.44 | bb | 0.172 | 0.191 | 0.0660 | 11.9 | 65-155% | 60.6% | Q |
| | PFOS | 1763-23-1 | P310724039 | 1.27 | MM1* | 0.167 | 0.186 | 0.0704 | 11.6 | 65-160% | 54.9% | Q |
| | PFNS | 68259-12-1 | P310724039 | 1.36 | bb | 0.173 | 0.192 | 0.0468 | 12.0 | 55-140% | 56.7% | |
| | PFDS | 335-77-3 | P310724039 | 1.35 | bb | 0.174 | 0.193 | 0.0174 | 12.1 | 40-155% | 56.1% | |
| | 4:2 FTS | 757124-72-4 | P310724039 | 6.28 | bb | 0.675 | 0.750 | 0.314 | 46.9 | 60-150% | 67.0% | |
| | PFDoS | 79780-39-5 | P310724039 | 1.23 | bb | 0.175 | 0.194 | 0.0481 | 12.1 | 25-160% | 50.6% | |
| | 6:2 FTS | 27619-97-2 | P310724039 | 5.67 | bb | 0.684 | 0.760 | 0.189 | 47.5 | 55-200% | 59.6% | |
| | 8:2 FTS | 39108-34-4 | P310724039 | 5.72 | bb | 0.691 | 0.768 | 0.481 | 48.0 | 70-150% | 59.6% | Q |
| Other | ADONA | 919005-14-4 | P310724039 | 5.18 | MM1* | 0.680 | 0.756 | 0.168 | 47.3 | 70-160% | 54.8% | Q |
| | 9Cl-PF3ONS | 756426-58-1 | P310724039 | 6.58 | bs | 0.673 | 0.748 | 0.213 | 46.8 | 70-150% | 70.3% | |
| | N-MeFOSAA | 2355-31-9 | P310724039 | 1.69 | MM1* | 0.180 | 0.200 | 0.102 | 12.5 | 65-155% | 67.8% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724039 | 5.78 | bs | 0.680 | 0.756 | 0.170 | 47.3 | 45-160% | 61.1% | |
| | N-EtFOSAA | 2991-50-6 | P310724039 | 1.63 | MM1* | 0.180 | 0.200 | 0.0968 | 12.5 | 65-165% | 65.1% | |
| | PFEESA | 113507-82-7 | P310724039 | 3.26 | bb | 0.320 | 0.356 | 0.0632 | 22.3 | 70-140% | 73.2% | |
| Sulfonmides | PFOSA | 754-91-6 | P310724039 | 1.57 | bb | 0.180 | 0.200 | 0.0189 | 12.5 | 70-140% | 62.8% | Q |
| | N-MeFOSA | 31506-32-8 | P310724039 | 1.90 | bb | 0.180 | 0.200 | 0.0550 | 12.5 | 70-155% | 76.1% | |
| | N-EtFOSA | 4151-50-2 | P310724039 | 1.91 | bb | 0.180 | 0.200 | 0.137 | 12.5 | 70-140% | 76.5% | |
| | N-MeFOSE | 24448-09-7 | P310724039 | 16.3 | bb | 1.80 | 2.00 | 0.317 | 125 | 70-140% | 65.3% | Q |
| | N-EtFOSE | 1691-99-2 | P310724039 | 16.6 | bb | 1.80 | 2.00 | 0.269 | 125 | 70-135% | 66.2% | Q |
| PFECAs | HFPO-DA | 13252-13-6 | P310724039 | 6.93 | MM1* | 0.720 | 0.800 | 0.232 | 50.0 | 70-145% | 69.3% | Q |
| | PFMBA | 863090-89-5 | P310724039 | 3.41 | bb | 0.360 | 0.400 | 0.164 | 25.0 | 60-150% | 68.1% | |
| | PFMPA | 377-73-1 | P310724039 | 3.21 | bb | 0.360 | 0.400 | 0.0751 | 25.0 | 30-140% | 64.2% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724039 | 7.98 | bb | 0.900 | 1.00 | 0.119 | 62.5 | 45-130% | 63.9% | |
| | 5:3 FTCA | 914637-49-3 | P310724039 | 8.30 | bb | 0.900 | 1.00 | 0.292 | 62.5 | 60-130% | 66.4% | |
| | 7:3 FTCA | 812-70-4 | P310724039 | 7.04 | bb | 0.900 | 1.00 | 0.202 | 62.5 | 60-150% | 56.3% | Q |
| ES | M4PFBA | | P310724039 | | MM1* | | | | 100 | 8-130% | 130.0% | |
| | M5PFPeA | | P020824013 | | bs | | | | 50.0 | 35-130% | 126.9% | |
| | M5PFHxA | | P310724039 | | bs | | | | 25.0 | 40-130% | 133.6% | Q |
| | M4PFHpA | | P310724039 | | bb | | | | 25.0 | 40-130% | 131.3% | Q |
| | M8PFOA | | P310724039 | | bs | | | | 25.0 | 40-130% | 126.2% | |
| | M9PFNA | | P310724039 | | bs | | | | 12.5 | 40-130% | 125.0% | |
| | M6PFDA | | P310724039 | | bb | | | | 12.5 | 40-130% | 128.2% | |
| | M7PFUdA | | P310724039 | | bb | | | | 12.5 | 40-130% | 121.1% | |
| | M2-PFDoA | | P310724039 | | bs | | | | 12.5 | 40-130% | 123.5% | |
| | 13C2-PFTeDA | | P310724039 | | bb | | | | 12.5 | 20-130% | 107.3% | |
| | M3PFBS | | P310724039 | | bs | | | | 23.3 | 40-135% | 138.0% | Q |
| | M3PFHxS | | P020824013 | | bb | | | | 23.7 | 40-130% | 126.8% | |
| | M8PFOS | | P310724039 | | bb | | | | 24.0 | 40-130% | 125.3% | |
| | M2-4:2 FTS | | P310724039 | | bs | | | | 46.9 | 40-165% | 97.6% | |
| | M2-6:2 FTS | | P020824013 | | bb | | | | 47.6 | 40-215% | 122.6% | |
| | M2-8:2 FTS | | P310724039 | | bb | | | | 48.0 | 40-275% | 103.7% | |
| | M8PFOSA | | P310724039 | | bb | | | | 25.0 | 40-130% | 106.5% | |
| | d3-N-MeFOSA | | P310724039 | | bb | | | | 25.0 | 10-130% | 43.0% | |
| | d5-N-EtFOSA | | P310724039 | | bb | | | | 25.0 | 10-130% | 33.2% | |
| | d3-N-MeFOSAA | | P310724039 | | bb | | | | 50.0 | 40-135% | 111.1% | |
| | d5-N-EtFOSAA | | P310724039 | | bb | | | | 50.0 | 40-150% | 107.8% | |
| | d7-N-MeFOSE | | P310724039 | | bb | | | | 250 | 20-130% | 86.5% | |
| | d9-N-EtFOSE | | P310724039 | | bb | | | | 250 | 15-130% | 76.6% | |
| | M3HFPO-DA | | P310724039 | | MM1* | | | | 100 | 40-130% | 168.6% | Q |

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | OPR_17844_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | OPR_17844_PFAS | Prep Batch | EU17844 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 5 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 5 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5 |
| AnalysisDate | 2024-08-01 08:11 | Split Factor | N/A | Dry Weight (g) | 5 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JS | M3PFBA | | P310724039 | | bb | | | | 50.0 | >30% | 108.4% | |
| | M2-PFHxA | | P310724039 | | bb | | | | 25.0 | >30% | 102.7% | |
| | M4-PFOA | | P310724039 | | bb | | | | 25.0 | >30% | 108.9% | |
| | M5-PFNA | | P310724039 | | bs | | | | 12.5 | >30% | 95.5% | |
| | M2-PFDA | | P310724039 | | bb | | | | 12.5 | >30% | 104.6% | |
| | 18O2PFHxS | | P310724039 | | bb | | | | 23.7 | >30% | 121.0% | |
| | M4-PFOS | | P310724039 | | bb | | | | 24.0 | >30% | 126.6% | |

Peak Flags bb1* bb;n R.H.H. 08/02/2024
MM1* MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | OPR_17914_PFAS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | OPR_17914_PFAS | Prep Batch | EU17914 | Tare Weight (g) | 0 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 1 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 1 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 1 |
| AnalysisDate | 2024-08-07 19:08 | Split Factor | N/A | Dry Weight (g) | 1 |
| SampleType | Control | Method Code | WM-B-24-Solid | % Solids | 100.0% |
| Bottle ID | - | | | Dry Wt. Equiv (g) | 5.00 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824013 | 9.88 | MM1* | 0.720 | 0.800 | 0.188 | 50.0 | 70-140% | 98.8% | |
| | PFDA | 335-76-2 | P070824013 | 2.48 | bb | 0.180 | 0.200 | 0.0911 | 12.5 | 70-155% | 99.2% | |
| | PFUnDA | 2058-94-8 | P070824013 | 2.49 | bb | 0.180 | 0.200 | 0.0676 | 12.5 | 70-155% | 99.6% | |
| | PFDoA | 307-55-1 | P070824013 | 2.33 | bb | 0.180 | 0.200 | 0.0676 | 12.5 | 70-150% | 93.4% | |
| | PFTrDA | 72629-94-8 | P070824013 | 2.22 | bb | 0.180 | 0.200 | 0.0688 | 12.5 | 65-150% | 88.9% | |
| | PFTeDA | 376-06-7 | P070824013 | 2.46 | bb | 0.180 | 0.200 | 0.0515 | 12.5 | 65-150% | 98.2% | |
| Sulfonates | PFBS | 375-73-5 | P070824013 | 1.97 | bb | 0.160 | 0.177 | 0.0383 | 11.1 | 65-145% | 88.8% | |
| | PFHpS | 375-92-8 | P070824013 | 2.14 | bb | 0.172 | 0.191 | 0.0660 | 11.9 | 65-155% | 90.0% | |
| | PFOS | 1763-23-1 | P070824013 | 1.95 | MM1* | 0.167 | 0.186 | 0.0704 | 11.6 | 65-160% | 84.0% | |
| | 8:2 FTS | 39108-34-4 | P070824013 | 8.33 | bb | 0.691 | 0.768 | 0.481 | 48.0 | 70-150% | 86.8% | |
| Sulfonmides | PFOSA | 754-91-6 | P070824013 | 2.43 | bb | 0.180 | 0.200 | 0.0189 | 12.5 | 70-140% | 97.1% | |
| | N-MeFOSA | 31506-32-8 | P070824013 | 2.75 | bb | 0.180 | 0.200 | 0.0550 | 12.5 | 70-155% | 109.8% | |
| | N-EtFOSA | 4151-50-2 | P070824013 | 2.77 | bb | 0.180 | 0.200 | 0.137 | 12.5 | 70-140% | 110.7% | |
| | N-MeFOSE | 24448-09-7 | P070824013 | 25.8 | bb | 1.80 | 2.00 | 0.317 | 125 | 70-140% | 103.0% | |
| | N-EtFOSE | 1691-99-2 | P070824013 | 24.8 | bb | 1.80 | 2.00 | 0.269 | 125 | 70-135% | 99.3% | |
| PFECAs | HFPO-DA | 13252-13-6 | P070824013 | 10.4 | MM1* | 0.720 | 0.800 | 0.232 | 50.0 | 70-145% | 104.2% | |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824013 | 11.3 | bb | 0.900 | 1.00 | 0.202 | 62.5 | 60-150% | 90.4% | |
| Other | ADONA | 919005-14-4 | P070824013 | 7.91 | bb | 0.680 | 0.756 | 0.168 | 47.3 | 70-160% | 83.7% | |
| ES | M4PFBA | | P070824013 | | bb | | | | 100 | 8-130% | 80.6% | |
| | M5PFHxA | | P070824013 | | bb | | | | 25.0 | 40-130% | 77.3% | |
| | M6PFDA | | P070824013 | | bb | | | | 12.5 | 40-130% | 78.9% | |
| | M7PFUdA | | P070824013 | | bb | | | | 12.5 | 40-130% | 76.0% | |
| | M2-PFDoA | | P070824013 | | bs | | | | 12.5 | 40-130% | 78.5% | |
| | 13C2-PFTeDA | | P070824013 | | bb | | | | 12.5 | 20-130% | 71.6% | |
| | M3PFBS | | P070824013 | | bb | | | | 23.3 | 40-135% | 86.8% | |
| | M8PFOS | | P070824013 | | bb | | | | 24.0 | 40-130% | 78.3% | |
| | M2-8:2 FTS | | P070824013 | | bs | | | | 48.0 | 40-275% | 75.5% | |
| | M8PFOSA | | P070824013 | | bb | | | | 25.0 | 40-130% | 71.5% | |
| | d3-N-MeFOSA | | P070824013 | | bb | | | | 25.0 | 10-130% | 66.8% | |
| | d5-N-EtFOSA | | P070824013 | | bb | | | | 25.0 | 10-130% | 65.6% | |
| | d7-N-MeFOSE | | P070824013 | | bb | | | | 250 | 20-130% | 73.8% | |
| | d9-N-EtFOSE | | P070824013 | | bb | | | | 250 | 15-130% | 71.4% | |
| | M3HFPO-DA | | P070824013 | | bb | | | | 100 | 40-130% | 104.9% | |
| JS | M3PFBA | | P070824013 | | bb | | | | 50.0 | >30% | 119.9% | |
| | M2-PFHxA | | P070824013 | | bs | | | | 25.0 | >30% | 119.5% | |
| | M2-PFDA | | P070824013 | | bb | | | | 12.5 | >30% | 114.6% | |
| | M4-PFOS | | P070824013 | | bb | | | | 24.0 | >30% | 137.5% | |

Peak Flags MM1* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | 0724-843-002-1MS | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-843-002-1MS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 08:36 | Split Factor | N/A |
| SampleType | MS | Method Code | Eu-062 |
| Bottle ID | M1 | Parent Sample ID | 0724-843-002-1 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724058 | 720 | bb | 60.0 | 66.7 | 15.7 | 50.0 | 70-140% | 86.5% | |
| | PFPeA | 2706-90-3 | P290724058 | 372 | bb1* | 30.0 | 33.3 | 5.24 | 25.0 | 65-135% | 89.3% | |
| | PFHxA | 307-24-4 | P290724058 | 198 | bb | 15.0 | 16.7 | 5.50 | 12.5 | 70-145% | 87.4% | |
| | PFHpA | 375-85-9 | P290724058 | 185 | bb | 15.0 | 16.7 | 5.02 | 12.5 | 70-150% | 85.5% | |
| | PFOA | 335-67-1 | P290724058 | 220 | MM1* | 15.0 | 16.7 | 4.08 | 12.5 | 70-150% | 85.8% | |
| | PFNA | 375-95-1 | P290724058 | 204 | bs | 15.0 | 16.7 | 3.19 | 12.5 | 70-150% | 96.9% | |
| | PFDA | 335-76-2 | P290724058 | 182 | bb | 15.0 | 16.7 | 7.59 | 12.5 | 70-140% | 87.0% | |
| | PFUnDA | 2058-94-8 | P290724058 | 186 | bb | 15.0 | 16.7 | 5.63 | 12.5 | 70-145% | 89.3% | |
| | PFDoA | 307-55-1 | P290724058 | 176 | bb | 15.0 | 16.7 | 5.63 | 12.5 | 70-140% | 84.6% | |
| | PFTrDA | 72629-94-8 | P290724058 | 161 | bb | 15.0 | 16.7 | 5.73 | 12.5 | 65-140% | 77.3% | |
| | PFTeDA | 376-06-7 | P290724058 | 178 | bb | 15.0 | 16.7 | 4.29 | 12.5 | 60-140% | 85.6% | |
| Sulfonates | PFBS | 375-73-5 | P290724058 | 171 | bb | 13.3 | 14.8 | 3.19 | 11.1 | 60-145% | 79.2% | |
| | PFPeS | 2706-91-4 | P290724058 | 168 | bb | 14.1 | 15.7 | 4.27 | 11.8 | 65-140% | 85.9% | |
| | PFHxS | 355-46-4 | P290724058 | 186 | MM1* | 13.7 | 15.2 | 6.44 | 11.4 | 65-145% | 94.6% | |
| | PFHpS | 375-92-8 | P290724058 | 176 | bb | 14.3 | 15.9 | 5.50 | 11.9 | 70-150% | 88.7% | |
| | PFOS | 1763-23-1 | P290724058 | 172 | MM1* | 13.9 | 15.5 | 5.87 | 11.6 | 55-150% | 79.0% | |
| | PFNS | 68259-12-1 | P290724058 | 144 | bb | 14.4 | 16.0 | 3.90 | 12.0 | 65-145% | 71.8% | |
| | PFDS | 335-77-3 | P290724058 | 133 | bb | 14.5 | 16.1 | 1.45 | 12.1 | 60-145% | 66.0% | |
| | PFDoS | 79780-39-5 | P290724058 | 108 | bb | 14.6 | 16.2 | 4.01 | 12.1 | 50-145% | 53.6% | |
| | 4:2 FTS | 757124-72-4 | P290724058 | 653 | bb | 56.2 | 62.5 | 26.2 | 46.9 | 70-145% | 83.6% | |
| | 6:2 FTS | 27619-97-2 | P290724058 | 676 | bs | 57.0 | 63.3 | 15.8 | 47.5 | 65-155% | 85.0% | |
| | 8:2 FTS | 39108-34-4 | P290724058 | 640 | bb | 57.6 | 64.0 | 40.1 | 48.0 | 60-150% | 79.9% | |
| Sulfonmides | PFOSA | 754-91-6 | P290724058 | 176 | bb | 15.0 | 16.7 | 1.58 | 12.5 | 70-145% | 84.6% | |
| | N-MeFOSA | 31506-32-8 | P290724058 | 206 | bb | 15.0 | 16.7 | 4.58 | 12.5 | 60-150% | 98.7% | |
| | N-EtFOSA | 4151-50-2 | P290724058 | 202 | bb | 15.0 | 16.7 | 11.4 | 12.5 | 65-145% | 96.9% | |
| | N-MeFOSE | 24448-09-7 | P290724058 | 1920 | bb | 150 | 167 | 26.4 | 125 | 70-145% | 92.4% | |
| | N-EtFOSE | 1691-99-2 | P290724058 | 1900 | bb | 150 | 167 | 22.4 | 125 | 70-135% | 91.0% | |
| PFECAs | HFPO-DA | 13252-13-6 | P290724058 | 750 | bs | 60.0 | 66.7 | 19.3 | 50.0 | 70-140% | 90.0% | |
| | PFMBA | 863090-89-5 | P290724058 | 375 | bb | 30.0 | 33.3 | 13.6 | 25.0 | 60-150% | 90.0% | |
| | PFMPA | 377-73-1 | P290724058 | 358 | bb | 30.0 | 33.3 | 6.26 | 25.0 | 55-140% | 86.0% | |
| | NFDHA | 151772-58-6 | P290724058 | 378 | bb | 30.0 | 33.3 | 16.8 | 25.0 | 50-150% | 90.7% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724058 | 280 | bb | 75.0 | 83.3 | 9.92 | 62.5 | 65-130% | 26.8% | Q |
| | 5:3 FTCA | 914637-49-3 | P290724058 | 749 | bb | 75.0 | 83.3 | 24.3 | 62.5 | 70-135% | 71.9% | |
| | 7:3 FTCA | 812-70-4 | P290724058 | 843 | bb | 75.0 | 83.3 | 16.8 | 62.5 | 50-145% | 80.9% | |
| Other | ADONA | 919005-14-4 | P290724058 | 677 | bs | 56.7 | 63.0 | 14.0 | 47.3 | 65-145% | 86.0% | |
| | 9Cl-PF3ONS | 756426-58-1 | P290724058 | 712 | bb | 56.1 | 62.3 | 17.8 | 46.8 | 70-155% | 91.4% | |
| | N-MeFOSAA | 2355-31-9 | P290724058 | 165 | bb | 15.0 | 16.7 | 8.50 | 12.5 | 50-140% | 79.2% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724058 | 576 | bb | 56.7 | 63.0 | 14.2 | 47.3 | 55-160% | 73.2% | |
| | N-EtFOSAA | 2991-50-6 | P290724058 | 176 | MM1* | 15.0 | 16.7 | 8.07 | 12.5 | 70-145% | 84.2% | |
| | PFEESA | 113507-82-7 | P290724058 | 334 | bb | 26.7 | 29.7 | 5.27 | 22.3 | 70-140% | 90.0% | |
| ES | M4PFBA | | P290724058 | | bb | | | | 100 | 5-130% | 97.3% | |
| | M5PFPeA | | P290724058 | | bs | | | | 50.0 | 40-130% | 93.7% | |
| | M5PFHxA | | P290724058 | | bb | | | | 25.0 | 40-130% | 94.9% | |
| | M4PFHpA | | P290724058 | | bb | | | | 25.0 | 40-130% | 96.1% | |
| | M8PFOA | | P290724058 | | bs | | | | 25.0 | 40-130% | 94.3% | |
| | M9PFNA | | P290724058 | | bb | | | | 12.5 | 40-130% | 96.6% | |
| | M6PFDA | | P290724058 | | bb | | | | 12.5 | 40-130% | 90.4% | |
| | M7PFUdA | | P290724058 | | bb | | | | 12.5 | 30-130% | 77.8% | |
| | M2-PFDoA | | P290724058 | | bb | | | | 12.5 | 10-130% | 79.5% | |
| | 13C2-PFTeDA | | P290724058 | | bb | | | | 12.5 | 10-130% | 65.4% | |
| | M3PFBS | | P290724058 | | bb | | | | 23.3 | 40-135% | 102.8% | |
| | M3PFHxS | | P290724058 | | bb | | | | 23.7 | 40-130% | 88.6% | |
| | M8PFOS | | P290724058 | | bs | | | | 24.0 | 40-130% | 83.3% | |
| | M2-4:2 FTS | | P290724058 | | bb | | | | 46.9 | 40-200% | 138.7% | |
| | M2-6:2 FTS | | P290724058 | | bb | | | | 47.6 | 40-200% | 101.6% | |
| | M2-8:2 FTS | | P290724058 | | bb | | | | 48.0 | 40-300% | 80.0% | |
| | M8PFOSA | | P290724058 | | bs | | | | 25.0 | 40-130% | 82.4% | |
| | d3-N-MeFOSA | | P290724058 | | bb | | | | 25.0 | 10-130% | 72.6% | |
| | d5-N-EtFOSA | | P290724058 | | bb | | | | 25.0 | 10-130% | 67.4% | |
| | d3-N-MeFOSAA | | P290724058 | | bs | | | | 50.0 | 40-170% | 90.6% | |
| | d5-N-EtFOSAA | | P290724058 | | bs | | | | 50.0 | 25-135% | 93.8% | |
| | d7-N-MeFOSE | | P290724058 | | bb | | | | 250 | 10-130% | 77.6% | |
| | d9-N-EtFOSE | | P290724058 | | bb | | | | 250 | 10-130% | 74.0% | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | 0724-843-002-1MS | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-843-002-1MS | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 08:36 | Split Factor | N/A |
| SampleType | MS | Method Code | Eu-062 |
| Bottle ID | M1 | Parent Sample ID | 0724-843-002-1 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724058 | | bb | | | | 100 | 40-130% | 109.9% | |
| JS | M3PFBA | | P290724058 | | bb | | | | 50.0 | >30% | 128.0% | |
| | M2-PFHxA | | P290724058 | | bs | | | | 25.0 | >30% | 126.7% | |
| | M4-PFOA | | P290724058 | | bb | | | | 25.0 | >30% | 125.3% | |
| | M5-PFNA | | P290724058 | | bb | | | | 12.5 | >30% | 102.7% | |
| | M2-PFDA | | P290724058 | | bb | | | | 12.5 | >30% | 115.4% | |
| | 18O2PFHxS | | P290724058 | | bs | | | | 23.7 | >30% | 138.7% | |
| | M4-PFOS | | P290724058 | | bb | | | | 24.0 | >30% | 131.7% | |

Peak Flags  bb1*  bb;N JDG 7/30/24
MM1*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-2 DOD QSM Table B-24 (EPA 1633) - non-potable water
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | 0724-843-002-1MSD | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-843-002-1MSD | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 08:59 | Split Factor | N/A |
| SampleType | MSD | Method Code | Eu-062 |
| Bottle ID | M1 | Parent Sample ID | 0724-843-002-1 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | MSD RPD Limits | MSD RPD | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P290724059 | 715 | bb | 60.0 | 66.7 | 15.7 | 50.0 | 70-140% | 85.8% | < 30% | 0.7% | |
| | PFPeA | 2706-90-3 | P290724059 | 371 | bb1* | 30.0 | 33.3 | 5.24 | 25.0 | 65-135% | 88.9% | < 30% | 0.4% | |
| | PFHxA | 307-24-4 | P290724059 | 200 | bb | 15.0 | 16.7 | 5.50 | 12.5 | 70-145% | 88.5% | < 30% | 1.2% | |
| | PFHpA | 375-85-9 | P290724059 | 190 | bs | 15.0 | 16.7 | 5.02 | 12.5 | 70-150% | 87.8% | < 30% | 2.6% | |
| | PFOA | 335-67-1 | P290724059 | 219 | MM1* | 15.0 | 16.7 | 4.08 | 12.5 | 70-150% | 85.2% | < 30% | 0.7% | |
| | PFNA | 375-95-1 | P290724059 | 209 | bs | 15.0 | 16.7 | 3.19 | 12.5 | 70-150% | 99.2% | < 30% | 2.3% | |
| | PFDA | 335-76-2 | P290724059 | 182 | bb | 15.0 | 16.7 | 7.59 | 12.5 | 70-140% | 87.0% | < 30% | 0.1% | |
| | PFUnDA | 2058-94-8 | P290724059 | 177 | bb | 15.0 | 16.7 | 5.63 | 12.5 | 70-145% | 85.2% | < 30% | 4.7% | |
| | PFDoA | 307-55-1 | P290724059 | 174 | bs | 15.0 | 16.7 | 5.63 | 12.5 | 70-140% | 83.7% | < 30% | 1.1% | |
| | PFTrDA | 72629-94-8 | P290724059 | 157 | bs | 15.0 | 16.7 | 5.73 | 12.5 | 65-140% | 75.6% | < 30% | 2.3% | |
| | PFTeDA | 376-06-7 | P290724059 | 183 | bs | 15.0 | 16.7 | 4.29 | 12.5 | 60-140% | 87.8% | < 30% | 2.6% | |
| Sulfonates | PFBS | 375-73-5 | P290724059 | 193 | bb | 13.3 | 14.8 | 3.19 | 11.1 | 60-145% | 90.9% | < 30% | 13.8% | |
| | PFPeS | 2706-91-4 | P290724059 | 190 | bb | 14.1 | 15.7 | 4.27 | 11.8 | 65-140% | 97.0% | < 30% | 12.1% | |
| | PFHxS | 355-46-4 | P290724059 | 167 | MM1* | 13.7 | 15.2 | 6.44 | 11.4 | 65-145% | 85.0% | < 30% | 10.7% | |
| | PFHpS | 375-92-8 | P290724059 | 175 | bb | 14.3 | 15.9 | 5.50 | 11.9 | 70-150% | 88.3% | < 30% | 0.4% | |
| | PFOS | 1763-23-1 | P290724059 | 171 | MM1* | 13.9 | 15.5 | 5.87 | 11.6 | 55-150% | 78.4% | < 30% | 0.8% | |
| | PFNS | 68259-12-1 | P290724059 | 137 | bb | 14.4 | 16.0 | 3.90 | 12.0 | 65-145% | 68.3% | < 30% | 5.0% | |
| | PFDS | 335-77-3 | P300724010 | 144 | bb | 14.5 | 16.1 | 1.45 | 12.1 | 60-145% | 71.6% | < 30% | 8.2% | |
| | PFDoS | 79780-39-5 | P300724010 | 112 | bb | 14.6 | 16.2 | 4.01 | 12.1 | 50-145% | 55.6% | < 30% | 3.6% | |
| | 4:2 FTS | 757124-72-4 | P290724059 | 656 | bb | 56.2 | 62.5 | 26.2 | 46.9 | 70-145% | 84.0% | < 30% | 0.4% | |
| | 6:2 FTS | 27619-97-2 | P290724059 | 685 | bs | 57.0 | 63.3 | 15.8 | 47.5 | 65-155% | 86.1% | < 30% | 1.3% | |
| | 8:2 FTS | 39108-34-4 | P290724059 | 627 | bb | 57.6 | 64.0 | 40.1 | 48.0 | 60-150% | 78.4% | < 30% | 2.0% | |
| Sulfonmides | PFOSA | 754-91-6 | P290724059 | 175 | bb | 15.0 | 16.7 | 1.58 | 12.5 | 70-145% | 84.2% | < 30% | 0.5% | |
| | N-MeFOSA | 31506-32-8 | P290724059 | 200 | bb | 15.0 | 16.7 | 4.58 | 12.5 | 60-150% | 96.0% | < 30% | 2.8% | |
| | N-EtFOSA | 4151-50-2 | P290724059 | 199 | bb | 15.0 | 16.7 | 11.4 | 12.5 | 65-145% | 95.7% | < 30% | 1.2% | |
| | N-MeFOSE | 24448-09-7 | P290724059 | 1920 | bb | 150 | 167 | 26.4 | 125 | 70-145% | 92.4% | < 30% | 0.0% | |
| | N-EtFOSE | 1691-99-2 | P290724059 | 1920 | bb | 150 | 167 | 22.4 | 125 | 70-135% | 91.9% | < 30% | 1.0% | |
| PFECAs | HFPO-DA | 13252-13-6 | P290724059 | 733 | bb | 60.0 | 66.7 | 19.3 | 50.0 | 70-140% | 88.0% | < 30% | 2.2% | |
| | PFMBA | 863090-89-5 | P290724059 | 381 | bb | 30.0 | 33.3 | 13.6 | 25.0 | 60-150% | 91.5% | < 30% | 1.7% | |
| | PFMPA | 377-73-1 | P290724059 | 371 | bb | 30.0 | 33.3 | 6.26 | 25.0 | 55-140% | 89.1% | < 30% | 3.5% | |
| | NFDHA | 151772-58-6 | P290724059 | 378 | bb | 30.0 | 33.3 | 16.8 | 25.0 | 50-150% | 90.6% | < 30% | 0.1% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P290724059 | 305 | bb | 75.0 | 83.3 | 9.92 | 62.5 | 65-130% | 29.3% | < 30% | 8.6% | Q |
| | 5:3 FTCA | 914637-49-3 | P290724059 | 905 | bb | 75.0 | 83.3 | 24.3 | 62.5 | 70-135% | 86.9% | < 30% | 18.9% | |
| | 7:3 FTCA | 812-70-4 | P290724059 | 871 | bb | 75.0 | 83.3 | 16.8 | 62.5 | 50-145% | 83.6% | < 30% | 3.2% | |
| Other | ADONA | 919005-14-4 | P290724059 | 667 | bs | 56.7 | 63.0 | 14.0 | 47.3 | 65-145% | 84.7% | < 30% | 1.4% | |
| | 9Cl-PF3ONS | 756426-58-1 | P290724059 | 722 | bs | 56.1 | 62.3 | 17.8 | 46.8 | 70-155% | 92.6% | < 30% | 1.3% | |
| | N-MeFOSAA | 2355-31-9 | P290724059 | 193 | MM1* | 15.0 | 16.7 | 8.50 | 12.5 | 50-140% | 92.7% | < 30% | 15.6% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P290724059 | 536 | bb | 56.7 | 63.0 | 14.2 | 47.3 | 55-160% | 68.1% | < 30% | 7.1% | |
| | N-EtFOSAA | 2991-50-6 | P290724059 | 171 | MM1* | 15.0 | 16.7 | 8.07 | 12.5 | 70-145% | 82.2% | < 30% | 2.5% | |
| | PFEESA | 113507-82-7 | P290724059 | 340 | bb | 26.7 | 29.7 | 5.27 | 22.3 | 70-140% | 91.7% | < 30% | 1.8% | |
| ES | M4PFBA | | P290724059 | | bb | | | | 100 | 5-130% | 95.0% | | | |
| | M5PFPeA | | P290724059 | | bs | | | | 50.0 | 40-130% | 89.2% | | | |
| | M5PFHxA | | P290724059 | | bb | | | | 25.0 | 40-130% | 91.0% | | | |
| | M4PFHpA | | P290724059 | | bb | | | | 25.0 | 40-130% | 95.6% | | | |
| | M8PFOA | | P290724059 | | bs | | | | 25.0 | 40-130% | 91.7% | | | |
| | M9PFNA | | P290724059 | | bb | | | | 12.5 | 40-130% | 90.6% | | | |
| | M6PFDA | | P290724059 | | bb | | | | 12.5 | 40-130% | 83.8% | | | |
| | M7PFUdA | | P290724059 | | bs | | | | 12.5 | 30-130% | 71.4% | | | |
| | M2-PFDoA | | P290724059 | | bs | | | | 12.5 | 10-130% | 70.2% | | | |
| | 13C2-PFTeDA | | P290724059 | | bb | | | | 12.5 | 10-130% | 54.0% | | | |
| | M3PFBS | | P290724059 | | bb | | | | 23.3 | 40-135% | 86.4% | | | |
| | M3PFHxS | | P290724059 | | bb | | | | 23.7 | 40-130% | 97.7% | | | |
| | M8PFOS | | P290724059 | | bs | | | | 24.0 | 40-130% | 81.4% | | | |
| | M2-4:2 FTS | | P290724059 | | bb | | | | 46.9 | 40-200% | 148.0% | | | |
| | M2-6:2 FTS | | P290724059 | | bs | | | | 47.6 | 40-200% | 102.1% | | | |
| | M2-8:2 FTS | | P290724059 | | bb | | | | 48.0 | 40-300% | 79.3% | | | |
| | M8PFOSA | | P290724059 | | bs | | | | 25.0 | 40-130% | 80.3% | | | |
| | d3-N-MeFOSA | | P290724059 | | bb | | | | 25.0 | 10-130% | 64.0% | | | |
| | d5-N-EtFOSA | | P290724059 | | bb | | | | 25.0 | 10-130% | 59.1% | | | |
| | d3-N-MeFOSAA | | P290724059 | | bb | | | | 50.0 | 40-170% | 84.5% | | | |
| | d5-N-EtFOSAA | | P290724059 | | bb | | | | 50.0 | 25-135% | 94.9% | | | |
| | d7-N-MeFOSE | | P290724059 | | bb | | | | 250 | 10-130% | 64.3% | | | |
| | d9-N-EtFOSE | | P290724059 | | bb | | | | 250 | 10-130% | 61.2% | | | |

# Enthalpy Analytical

Job No.: 0724-833-2  DOD QSM Table B-24 (EPA 1633) - non-potable water

Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | |
|---|---|---|---|
| Sample Name | 0724-843-002-1MSD | | |
| Sampling Site | | | |
| Enthalpy ID | 0724-843-002-1MSD | Prep Batch | EU17848 |
| Matrix | Aqueous | Analyst | jogres |
| Sampling Date | | Instrument | Pippin |
| Received Date | | Sample Vol mL | 60 |
| Prep Date | 2024-07-26 12:45 | Extract Vol mL | 5 |
| AnalysisDate | 2024-07-30 08:59 | Split Factor | N/A |
| SampleType | MSD | Method Code | Eu-062 |
| Bottle ID | M1 | Parent Sample ID | 0724-843-002-1 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/L | Peak Flags | LOD ng/L | LOQ ng/L | DL ng/L | Spike Amt. (ng) | Recovery Limits | Recovery | MSD RPD Limits | MSD RPD | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P290724059 | | bs | | | | 100 | 40-130% | 101.4% | | | |
| JS | M3PFBA | | P290724059 | | bb | | | | 50.0 | >30% | 140.4% | | | |
| | M2-PFHxA | | P290724059 | | bb | | | | 25.0 | >30% | 137.6% | | | |
| | M4-PFOA | | P290724059 | | bb | | | | 25.0 | >30% | 133.1% | | | |
| | M5-PFNA | | P290724059 | | bs | | | | 12.5 | >30% | 114.8% | | | |
| | M2-PFDA | | P290724059 | | bb | | | | 12.5 | >30% | 131.2% | | | |
| | 18O2PFHxS | | P290724059 | | bb | | | | 23.7 | >30% | 141.8% | | | |
| | M4-PFOS | | P290724059 | | bb | | | | 24.0 | >30% | 139.7% | | | |

Peak Flags  bb1*  bb;N JDG 7/30/24
MM1*  MM;C  JDG 7/30/24

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-020-1MS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-020-1MS | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.84 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 1.58 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5.06 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.86 |
| AnalysisDate | 2024-08-08 01:57 | Split Factor | N/A | Dry Weight (g) | 1.58 |
| SampleType | MS | Method Code | WM-B-24-Solid | % Solids | 10.2% |
| Bottle ID | - | Parent Sample ID | 0724-833-020-1B | Dry Wt. Equiv (g) | 0.52 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824031 | 96.0 | bb | 6.95 | 7.72 | 1.81 | 50.0 | 70-140% | 99.4% | |
| | PFDA | 335-76-2 | P070824031 | 23.7 | bb | 1.74 | 1.93 | 0.879 | 12.5 | 70-155% | 98.1% | |
| | PFUnDA | 2058-94-8 | P070824031 | 24.2 | bb | 1.74 | 1.93 | 0.652 | 12.5 | 70-155% | 100.3% | |
| | PFDoA | 307-55-1 | P070824031 | 22.7 | bb | 1.74 | 1.93 | 0.652 | 12.5 | 70-150% | 94.2% | |
| | PFTrDA | 72629-94-8 | P070824031 | 21.5 | bb | 1.74 | 1.93 | 0.664 | 12.5 | 65-150% | 88.9% | |
| | PFTeDA | 376-06-7 | P070824031 | 23.5 | bb | 1.74 | 1.93 | 0.497 | 12.5 | 65-150% | 97.6% | |
| Sulfonates | PFBS | 375-73-5 | P070824031 | 17.8 | bb | 1.54 | 1.71 | 0.370 | 11.1 | 65-145% | 83.3% | |
| | PFHpS | 375-92-8 | P070824031 | 19.7 | bb | 1.66 | 1.84 | 0.637 | 11.9 | 65-155% | 85.6% | |
| | PFOS | 1763-23-1 | P070824031 | 23.7 | MM1* | 1.61 | 1.79 | 0.679 | 11.6 | 65-160% | 80.0% | |
| | 8:2 FTS | 39108-34-4 | P070824031 | 81.8 | bb | 6.67 | 7.41 | 4.64 | 48.0 | 70-150% | 88.3% | |
| Sulfonmides | PFOSA | 754-91-6 | P070824031 | 23.5 | bb | 1.74 | 1.93 | 0.182 | 12.5 | 70-140% | 97.3% | |
| | N-MeFOSA | 31506-32-8 | P070824031 | 27.2 | bb | 1.74 | 1.93 | 0.531 | 12.5 | 70-155% | 112.9% | |
| | N-EtFOSA | 4151-50-2 | P070824031 | 27.9 | bb | 1.74 | 1.93 | 1.32 | 12.5 | 70-140% | 115.7% | |
| | N-MeFOSE | 24448-09-7 | P070824031 | 245 | bb | 17.4 | 19.3 | 3.06 | 125 | 70-140% | 101.5% | |
| | N-EtFOSE | 1691-99-2 | P070824031 | 240 | bb | 17.4 | 19.3 | 2.60 | 125 | 70-135% | 99.6% | |
| PFECAs | HFPO-DA | 13252-13-6 | P070824031 | 101 | bb | 6.95 | 7.72 | 2.24 | 50.0 | 70-145% | 104.5% | |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824031 | 114 | bb | 8.69 | 9.65 | 1.95 | 62.5 | 60-150% | 94.7% | |
| Other | ADONA | 919005-14-4 | P070824031 | 77.6 | bb | 6.57 | 7.30 | 1.62 | 47.3 | 70-160% | 85.1% | |
| ES | M4PFBA | | P070824031 | | bb | | | | 100 | 8-130% | 83.0% | |
| | M5PFHxA | | P070824031 | | bb | | | | 25.0 | 40-130% | 81.9% | |
| | M6PFDA | | P070824031 | | bb | | | | 12.5 | 40-130% | 80.2% | |
| | M7PFUdA | | P070824031 | | bb | | | | 12.5 | 40-130% | 75.5% | |
| | M2-PFDoA | | P070824031 | | bb | | | | 12.5 | 40-130% | 81.2% | |
| | 13C2-PFTeDA | | P070824031 | | bb | | | | 12.5 | 20-130% | 73.0% | |
| | M3PFBS | | P070824031 | | bb | | | | 23.3 | 40-135% | 93.9% | |
| | M8PFOS | | P070824031 | | bb | | | | 24.0 | 40-130% | 84.1% | |
| | M2-8:2 FTS | | P070824031 | | bb | | | | 48.0 | 40-275% | 84.6% | |
| | M8PFOSA | | P070824031 | | bs | | | | 25.0 | 40-130% | 78.4% | |
| | d3-N-MeFOSA | | P070824031 | | bb | | | | 25.0 | 10-130% | 77.7% | |
| | d5-N-EtFOSA | | P070824031 | | bb | | | | 25.0 | 10-130% | 78.6% | |
| | d7-N-MeFOSE | | P070824031 | | bb | | | | 250 | 20-130% | 75.6% | |
| | d9-N-EtFOSE | | P070824031 | | bb | | | | 250 | 15-130% | 72.7% | |
| | M3HFPO-DA | | P070824031 | | bb | | | | 100 | 40-130% | 101.9% | |
| JS | M3PFBA | | P070824031 | | bb | | | | 50.0 | >30% | 113.1% | |
| | M2-PFHxA | | P070824031 | | bb | | | | 25.0 | >30% | 110.5% | |
| | M2-PFDA | | P070824031 | | bb | | | | 12.5 | >30% | 110.6% | |
| | M4-PFOS | | P070824031 | | bb | | | | 24.0 | >30% | 126.0% | |

Peak Flags MM1* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-020-1MSD | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-020-1MSD | Prep Batch | EU17914 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.84 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 1.58 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5 |
| Prep Date | 2024-08-07 09:16 | Extract Vol mL | 5 | Net Weight (g) | 5.86 |
| AnalysisDate | 2024-08-08 02:20 | Split Factor | N/A | Dry Weight (g) | 1.58 |
| SampleType | MSD | Method Code | WM-B-24-Solid | % Solids | 10.2% |
| Bottle ID | - | Parent Sample ID | 0724-833-020-1B | Dry Wt. Equiv (g) | 0.51 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | MSD RPD Limits | MSD RPD | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P070824032 | 96.4 | bb | 7.03 | 7.81 | 1.84 | 50.0 | 70-140% | 98.7% | < 30% | 0.7% | |
| | PFDA | 335-76-2 | P070824032 | 23.7 | bb | 1.76 | 1.95 | 0.890 | 12.5 | 70-155% | 96.9% | < 30% | 1.2% | |
| | PFUnDA | 2058-94-8 | P070824032 | 24.2 | bb | 1.76 | 1.95 | 0.660 | 12.5 | 70-155% | 99.3% | < 30% | 1.0% | |
| | PFDoA | 307-55-1 | P070824032 | 22.3 | bb | 1.76 | 1.95 | 0.660 | 12.5 | 70-150% | 91.3% | < 30% | 3.1% | |
| | PFTrDA | 72629-94-8 | P070824032 | 20.8 | bb | 1.76 | 1.95 | 0.672 | 12.5 | 65-150% | 85.2% | < 30% | 4.2% | |
| | PFTeDA | 376-06-7 | P070824032 | 24.0 | bb | 1.76 | 1.95 | 0.503 | 12.5 | 65-150% | 98.3% | < 30% | 0.7% | |
| Sulfonates | PFBS | 375-73-5 | P070824032 | 18.3 | bb | 1.56 | 1.73 | 0.374 | 11.1 | 65-145% | 84.6% | < 30% | 1.5% | |
| | PFHpS | 375-92-8 | P070824032 | 20.7 | bb | 1.68 | 1.86 | 0.645 | 11.9 | 65-155% | 89.1% | < 30% | 3.9% | |
| | PFOS | 1763-23-1 | P070824032 | 24.4 | MM1* | 1.63 | 1.81 | 0.688 | 11.6 | 65-160% | 81.9% | < 30% | 2.3% | |
| | 8:2 FTS | 39108-34-4 | P070824032 | 84.7 | bb | 6.75 | 7.50 | 4.70 | 48.0 | 70-150% | 90.4% | < 30% | 2.3% | |
| Sulfonmides | PFOSA | 754-91-6 | P070824032 | 23.4 | bb | 1.76 | 1.95 | 0.185 | 12.5 | 70-140% | 96.0% | < 30% | 1.3% | |
| | N-MeFOSA | 31506-32-8 | P070824032 | 27.4 | bb | 1.76 | 1.95 | 0.537 | 12.5 | 70-155% | 112.2% | < 30% | 0.6% | |
| | N-EtFOSA | 4151-50-2 | P070824032 | 27.0 | bb | 1.76 | 1.95 | 1.34 | 12.5 | 70-140% | 110.5% | < 30% | 4.6% | |
| | N-MeFOSE | 24448-09-7 | P070824032 | 245 | bb | 17.6 | 19.5 | 3.10 | 125 | 70-140% | 100.2% | < 30% | 1.2% | |
| | N-EtFOSE | 1691-99-2 | P070824032 | 244 | bb | 17.6 | 19.5 | 2.63 | 125 | 70-135% | 99.9% | < 30% | 0.3% | |
| PFECAs | HFPO-DA | 13252-13-6 | P070824032 | 106 | bb | 7.03 | 7.81 | 2.27 | 50.0 | 70-145% | 108.5% | < 30% | 3.8% | |
| FTCAs | 7:3 FTCA | 812-70-4 | P070824032 | 115 | bs | 8.79 | 9.77 | 1.97 | 62.5 | 60-150% | 94.3% | < 30% | 0.3% | |
| Other | ADONA | 919005-14-4 | P070824032 | 79.6 | bb | 6.65 | 7.38 | 1.64 | 47.3 | 70-160% | 86.3% | < 30% | 1.4% | |
| ES | M4PFBA | | P070824032 | | bb | | | | 100 | 8-130% | 81.7% | | | |
| | M5PFHxA | | P070824032 | | bs | | | | 25.0 | 40-130% | 83.7% | | | |
| | M6PFDA | | P070824032 | | bb | | | | 12.5 | 40-130% | 80.3% | | | |
| | M7PFUdA | | P070824032 | | bb | | | | 12.5 | 40-130% | 75.0% | | | |
| | M2-PFDoA | | P070824032 | | bb | | | | 12.5 | 40-130% | 80.1% | | | |
| | 13C2-PFTeDA | | P070824032 | | bb | | | | 12.5 | 20-130% | 69.9% | | | |
| | M3PFBS | | P070824032 | | bb | | | | 23.3 | 40-135% | 93.1% | | | |
| | M8PFOS | | P070824032 | | bb | | | | 24.0 | 40-130% | 78.2% | | | |
| | M2-8:2 FTS | | P070824032 | | bb | | | | 48.0 | 40-275% | 81.4% | | | |
| | M8PFOSA | | P070824032 | | bb | | | | 25.0 | 40-130% | 76.2% | | | |
| | d3-N-MeFOSA | | P070824032 | | bb | | | | 25.0 | 10-130% | 75.5% | | | |
| | d5-N-EtFOSA | | P070824032 | | bb | | | | 25.0 | 10-130% | 77.9% | | | |
| | d7-N-MeFOSE | | P070824032 | | bb | | | | 250 | 20-130% | 74.3% | | | |
| | d9-N-EtFOSE | | P070824032 | | bb | | | | 250 | 15-130% | 70.8% | | | |
| | M3HFPO-DA | | P070824032 | | bb | | | | 100 | 40-130% | 98.3% | | | |
| JS | M3PFBA | | P070824032 | | bb | | | | 50.0 | >30% | 111.9% | | | |
| | M2-PFHxA | | P070824032 | | bs | | | | 25.0 | >30% | 110.8% | | | |
| | M2-PFDA | | P070824032 | | bb | | | | 12.5 | >30% | 113.1% | | | |
| | M4-PFOS | | P070824032 | | bb | | | | 24.0 | >30% | 131.1% | | | |

Peak Flags MM1* MM;c R.H.H. 08/08/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-021MS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021MS | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 10:49 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | MS | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | Parent Sample ID | 0724-833-021-1A | Dry Wt. Equiv (g) | 3.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724044 | 11.8 | bb | 0.963 | 1.07 | 0.251 | 50.0 | 70-140% | 88.6% | |
| | PFPeA | 2706-90-3 | P310724044 | 6.04 | bb1* | 0.481 | 0.535 | 0.0841 | 25.0 | 60-150% | 90.4% | |
| | PFHxA | 307-24-4 | P310724044 | 3.03 | bb | 0.241 | 0.267 | 0.0882 | 12.5 | 65-140% | 90.7% | |
| | PFHpA | 375-85-9 | P310724044 | 2.86 | bb | 0.241 | 0.267 | 0.0806 | 12.5 | 65-145% | 85.7% | |
| | PFOA | 335-67-1 | P310724044 | 3.09 | bb | 0.241 | 0.267 | 0.0655 | 12.5 | 70-150% | 92.3% | |
| | PFNA | 375-95-1 | P310724044 | 3.35 | bb | 0.241 | 0.267 | 0.0512 | 12.5 | 70-155% | 100.1% | |
| | PFDA | 335-76-2 | P310724044 | 3.06 | bb | 0.241 | 0.267 | 0.122 | 12.5 | 70-155% | 91.5% | |
| | PFUnDA | 2058-94-8 | P310724044 | 3.14 | bb | 0.241 | 0.267 | 0.0904 | 12.5 | 70-155% | 93.8% | |
| | PFDoA | 307-55-1 | P310724044 | 2.89 | bb | 0.241 | 0.267 | 0.0904 | 12.5 | 70-150% | 86.4% | |
| | PFTrDA | 72629-94-8 | P310724044 | 2.91 | bb | 0.241 | 0.267 | 0.0920 | 12.5 | 65-150% | 87.0% | |
| | PFTeDA | 376-06-7 | P310724044 | 3.00 | bb | 0.241 | 0.267 | 0.0688 | 12.5 | 65-150% | 89.7% | |
| Sulfonates | PFBS | 375-73-5 | P310724044 | 2.62 | bb | 0.213 | 0.237 | 0.0512 | 11.1 | 65-145% | 88.4% | |
| | PFPeS | 2706-91-4 | P310724044 | 2.98 | bb | 0.226 | 0.252 | 0.0684 | 11.8 | 55-160% | 94.8% | |
| | PFHxS | 355-46-4 | P310724044 | 2.72 | MM1* | 0.220 | 0.244 | 0.103 | 11.4 | 60-150% | 89.1% | |
| | PFHpS | 375-92-8 | P310724044 | 2.83 | bb | 0.229 | 0.255 | 0.0882 | 11.9 | 65-155% | 88.7% | |
| | PFOS | 1763-23-1 | P310724044 | 2.56 | MM1* | 0.223 | 0.248 | 0.0941 | 11.6 | 65-160% | 82.7% | |
| | PFNS | 68259-12-1 | P310724044 | 2.61 | bb | 0.231 | 0.257 | 0.0626 | 12.0 | 55-140% | 81.1% | |
| | PFDS | 335-77-3 | P310724044 | 2.52 | bb | 0.232 | 0.258 | 0.0233 | 12.1 | 40-155% | 78.0% | |
| | 4:2 FTS | 757124-72-4 | P310724044 | 11.2 | bb | 0.902 | 1.00 | 0.420 | 46.9 | 60-150% | 89.7% | |
| | PFDoS | 79780-39-5 | P310724044 | 2.51 | bb | 0.233 | 0.259 | 0.0643 | 12.1 | 25-160% | 77.3% | |
| | 6:2 FTS | 27619-97-2 | P310724044 | 11.0 | bb | 0.914 | 1.02 | 0.253 | 47.5 | 55-200% | 86.9% | |
| | 8:2 FTS | 39108-34-4 | P310724044 | 11.0 | bb | 0.924 | 1.03 | 0.643 | 48.0 | 70-150% | 85.4% | |
| Sulfonmides | PFOSA | 754-91-6 | P310724044 | 2.94 | bb | 0.241 | 0.267 | 0.0253 | 12.5 | 70-140% | 88.1% | |
| | N-MeFOSA | 31506-32-8 | P310724044 | 3.47 | bb | 0.241 | 0.267 | 0.0735 | 12.5 | 70-155% | 103.7% | |
| | N-EtFOSA | 4151-50-2 | P310724044 | 3.36 | bb | 0.241 | 0.267 | 0.183 | 12.5 | 70-140% | 100.5% | |
| | N-MeFOSE | 24448-09-7 | P310724044 | 30.7 | bb | 2.41 | 2.67 | 0.424 | 125 | 70-140% | 91.9% | |
| | N-EtFOSE | 1691-99-2 | P310724044 | 31.0 | bb | 2.41 | 2.67 | 0.360 | 125 | 70-135% | 92.7% | |
| PFECAs | HFPO-DA | 13252-13-6 | P310724044 | 12.5 | bb | 0.963 | 1.07 | 0.310 | 50.0 | 70-145% | 93.7% | |
| | PFMBA | 863090-89-5 | P310724044 | 6.14 | bb | 0.481 | 0.535 | 0.219 | 25.0 | 60-150% | 91.8% | |
| | PFMPA | 377-73-1 | P310724044 | 5.72 | bb | 0.481 | 0.535 | 0.100 | 25.0 | 30-140% | 85.6% | |
| | NFDHA | 151772-58-6 | P020824018 | 7.06 | bb | 0.481 | 0.535 | 0.270 | 25.0 | 60-155% | 105.6% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724044 | 13.9 | bb | 1.20 | 1.34 | 0.159 | 62.5 | 45-130% | 82.9% | |
| | 5:3 FTCA | 914637-49-3 | P310724044 | 14.2 | bb | 1.20 | 1.34 | 0.390 | 62.5 | 60-130% | 85.1% | |
| | 7:3 FTCA | 812-70-4 | P310724044 | 10.7 | bb | 1.20 | 1.34 | 0.270 | 62.5 | 60-150% | 64.0% | |
| Other | ADONA | 919005-14-4 | P310724044 | 9.87 | bs | 0.910 | 1.01 | 0.225 | 47.3 | 70-160% | 78.1% | |
| | 9Cl-PF3ONS | 756426-58-1 | P310724044 | 11.9 | bb | 0.900 | 1.000 | 0.285 | 46.8 | 70-150% | 95.3% | |
| | N-MeFOSAA | 2355-31-9 | P310724044 | 3.02 | MM1* | 0.241 | 0.267 | 0.136 | 12.5 | 65-155% | 90.4% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724044 | 10.8 | bs | 0.910 | 1.01 | 0.227 | 47.3 | 45-160% | 85.2% | |
| | N-EtFOSAA | 2991-50-6 | P310724044 | 2.91 | MM1* | 0.241 | 0.267 | 0.129 | 12.5 | 65-165% | 87.0% | |
| | PFEESA | 113507-82-7 | P310724044 | 5.72 | bs | 0.428 | 0.476 | 0.0845 | 22.3 | 70-140% | 96.1% | |
| ES | M4PFBA | | P310724044 | | bb | | | | 100 | 8-130% | 82.9% | |
| | M5PFPeA | | P310724044 | | bs | | | | 50.0 | 35-130% | 83.1% | |
| | M5PFHxA | | P310724044 | | bs | | | | 25.0 | 40-130% | 81.4% | |
| | M4PFHpA | | P310724044 | | bs | | | | 25.0 | 40-130% | 87.5% | |
| | M8PFOA | | P310724044 | | bs | | | | 25.0 | 40-130% | 79.1% | |
| | M9PFNA | | P310724044 | | bs | | | | 12.5 | 40-130% | 78.5% | |
| | M6PFDA | | P310724044 | | bb | | | | 12.5 | 40-130% | 77.1% | |
| | M7PFUdA | | P310724044 | | bb | | | | 12.5 | 40-130% | 70.5% | |
| | M2-PFDoA | | P310724044 | | bb | | | | 12.5 | 40-130% | 70.9% | |
| | 13C2-PFTeDA | | P310724044 | | bb | | | | 12.5 | 20-130% | 66.8% | |
| | M3PFBS | | P310724044 | | bb | | | | 23.3 | 40-135% | 82.3% | |
| | M3PFHxS | | P310724044 | | bs | | | | 23.7 | 40-130% | 81.5% | |
| | M8PFOS | | P310724044 | | bb | | | | 24.0 | 40-130% | 75.1% | |
| | M2-4:2 FTS | | P310724044 | | bb | | | | 46.9 | 40-165% | 63.9% | |
| | M2-6:2 FTS | | P020824018 | | bb | | | | 47.6 | 40-215% | 77.0% | |
| | M2-8:2 FTS | | P310724044 | | bb | | | | 48.0 | 40-275% | 64.9% | |
| | M8PFOSA | | P310724044 | | bb | | | | 25.0 | 40-130% | 60.2% | |
| | d3-N-MeFOSA | | P310724044 | | bb | | | | 25.0 | 10-130% | 19.1% | |
| | d5-N-EtFOSA | | P310724044 | | bb | | | | 25.0 | 10-130% | 17.2% | |
| | d3-N-MeFOSAA | | P310724044 | | bs | | | | 50.0 | 40-135% | 73.7% | |
| | d5-N-EtFOSAA | | P310724044 | | bs | | | | 50.0 | 40-150% | 72.1% | |
| | d7-N-MeFOSE | | P310724044 | | bb | | | | 250 | 20-130% | 50.7% | |
| | d9-N-EtFOSE | | P310724044 | | bb | | | | 250 | 15-130% | 47.5% | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-021MS | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021MS | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 10:49 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | MS | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | Parent Sample ID | 0724-833-021-1A | Dry Wt. Equiv (g) | 3.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P310724044 | | bb | | | | 100 | 40-130% | 105.5% | |
| JS | M3PFBA | | P310724044 | | bb | | | | 50.0 | >30% | 95.1% | |
| | M2-PFHxA | | P310724044 | | bs | | | | 25.0 | >30% | 93.8% | |
| | M4-PFOA | | P310724044 | | bb | | | | 25.0 | >30% | 92.0% | |
| | M5-PFNA | | P310724044 | | bs | | | | 12.5 | >30% | 80.7% | |
| | M2-PFDA | | P310724044 | | bb | | | | 12.5 | >30% | 90.6% | |
| | 18O2PFHxS | | P310724044 | | bb | | | | 23.7 | >30% | 105.3% | |
| | M4-PFOS | | P310724044 | | bb | | | | 24.0 | >30% | 108.5% | |

Peak Flags  bb1*  bb;n R.H.H. 08/02/2024
MM1*  MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Enthalpy Analytical

Job No.: 0724-833-3 EPA Method 1633 compliant with Table B-24 (soils/solids)
Florida Gulf Coast University 240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-021MSD | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021MSD | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 11:12 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | MSD | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | Parent Sample ID | 0724-833-021-1A | Dry Wt. Equiv (g) | 3.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | MSD RPD Limits | MSD RPD | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acids | PFBA | 375-22-4 | P310724045 | 10.7 | bb | 0.963 | 1.07 | 0.251 | 50.0 | 70-140% | 79.7% | < 30% | 10.6% | |
| | PFPeA | 2706-90-3 | P310724045 | 5.42 | bb1* | 0.481 | 0.535 | 0.0841 | 25.0 | 60-150% | 81.0% | < 30% | 10.9% | |
| | PFHxA | 307-24-4 | P310724045 | 2.64 | bb | 0.241 | 0.267 | 0.0882 | 12.5 | 65-140% | 78.9% | < 30% | 14.0% | |
| | PFHpA | 375-85-9 | P310724045 | 2.71 | bb | 0.241 | 0.267 | 0.0806 | 12.5 | 65-145% | 81.0% | < 30% | 5.6% | |
| | PFOA | 335-67-1 | P310724045 | 2.69 | bb | 0.241 | 0.267 | 0.0655 | 12.5 | 70-150% | 80.4% | < 30% | 13.8% | |
| | PFNA | 375-95-1 | P310724045 | 2.95 | bb | 0.241 | 0.267 | 0.0512 | 12.5 | 70-155% | 88.3% | < 30% | 12.6% | |
| | PFDA | 335-76-2 | P310724045 | 2.62 | bb | 0.241 | 0.267 | 0.122 | 12.5 | 70-155% | 78.4% | < 30% | 15.3% | |
| | PFUnDA | 2058-94-8 | P310724045 | 2.85 | bb | 0.241 | 0.267 | 0.0904 | 12.5 | 70-155% | 85.2% | < 30% | 9.7% | |
| | PFDoA | 307-55-1 | P310724045 | 2.63 | bb | 0.241 | 0.267 | 0.0904 | 12.5 | 70-150% | 78.7% | < 30% | 9.4% | |
| | PFTrDA | 72629-94-8 | P310724045 | 2.48 | bb | 0.241 | 0.267 | 0.0920 | 12.5 | 65-150% | 74.3% | < 30% | 15.8% | |
| | PFTeDA | 376-06-7 | P310724045 | 2.58 | bb | 0.241 | 0.267 | 0.0688 | 12.5 | 65-150% | 77.2% | < 30% | 15.0% | |
| Sulfonates | PFBS | 375-73-5 | P310724045 | 2.22 | bb | 0.213 | 0.237 | 0.0512 | 11.1 | 65-145% | 74.7% | < 30% | 16.7% | |
| | PFPeS | 2706-91-4 | P310724045 | 2.51 | bb | 0.226 | 0.252 | 0.0684 | 11.8 | 55-160% | 79.9% | < 30% | 17.0% | |
| | PFHxS | 355-46-4 | P310724045 | 2.40 | MM1* | 0.220 | 0.244 | 0.103 | 11.4 | 60-150% | 78.5% | < 30% | 12.7% | |
| | PFHpS | 375-92-8 | P310724045 | 2.50 | bb | 0.229 | 0.255 | 0.0882 | 11.9 | 65-155% | 78.4% | < 30% | 12.3% | |
| | PFOS | 1763-23-1 | P310724045 | 2.33 | MM1* | 0.223 | 0.248 | 0.0941 | 11.6 | 65-160% | 75.1% | < 30% | 9.6% | |
| | PFNS | 68259-12-1 | P310724045 | 2.44 | bb | 0.231 | 0.257 | 0.0626 | 12.0 | 55-140% | 76.0% | < 30% | 6.5% | |
| | PFDS | 335-77-3 | P310724045 | 2.37 | bb | 0.232 | 0.258 | 0.0233 | 12.1 | 40-155% | 73.6% | < 30% | 5.9% | |
| | 4:2 FTS | 757124-72-4 | P310724045 | 9.43 | bb | 0.902 | 1.00 | 0.420 | 46.9 | 60-150% | 75.3% | < 30% | 17.4% | |
| | PFDoS | 79780-39-5 | P310724045 | 2.36 | bb | 0.233 | 0.259 | 0.0643 | 12.1 | 25-160% | 72.7% | < 30% | 6.1% | |
| | 6:2 FTS | 27619-97-2 | P310724045 | 9.59 | bb | 0.914 | 1.02 | 0.253 | 47.5 | 55-200% | 75.5% | < 30% | 14.1% | |
| | 8:2 FTS | 39108-34-4 | P310724045 | 9.16 | bb | 0.924 | 1.03 | 0.643 | 48.0 | 70-150% | 71.4% | < 30% | 17.9% | |
| Sulfonmides | PFOSA | 754-91-6 | P310724045 | 2.50 | bb | 0.241 | 0.267 | 0.0253 | 12.5 | 70-140% | 74.7% | < 30% | 16.4% | |
| | N-MeFOSA | 31506-32-8 | P310724045 | 3.06 | bb | 0.241 | 0.267 | 0.0735 | 12.5 | 70-155% | 91.6% | < 30% | 12.4% | |
| | N-EtFOSA | 4151-50-2 | P310724045 | 3.02 | bb | 0.241 | 0.267 | 0.183 | 12.5 | 70-140% | 90.2% | < 30% | 10.8% | |
| | N-MeFOSE | 24448-09-7 | P310724045 | 27.8 | bb | 2.41 | 2.67 | 0.424 | 125 | 70-140% | 83.1% | < 30% | 10.1% | |
| | N-EtFOSE | 1691-99-2 | P310724045 | 27.4 | bb | 2.41 | 2.67 | 0.360 | 125 | 70-135% | 82.0% | < 30% | 12.2% | |
| PFECAs | HFPO-DA | 13252-13-6 | P310724045 | 11.0 | bb | 0.963 | 1.07 | 0.310 | 50.0 | 70-145% | 82.6% | < 30% | 12.6% | |
| | PFMBA | 863090-89-5 | P310724045 | 5.45 | bb | 0.481 | 0.535 | 0.219 | 25.0 | 60-150% | 81.5% | < 30% | 11.9% | |
| | PFMPA | 377-73-1 | P310724045 | 5.10 | bb | 0.481 | 0.535 | 0.100 | 25.0 | 30-140% | 76.3% | < 30% | 11.6% | |
| | NFDHA | 151772-58-6 | P020824019 | 6.12 | bb | 0.481 | 0.535 | 0.270 | 25.0 | 60-155% | 91.5% | < 30% | 14.3% | |
| FTCAs | 3:3 FTCA | 356-02-5 | P310724045 | 12.5 | bb | 1.20 | 1.34 | 0.159 | 62.5 | 45-130% | 74.5% | < 30% | 10.7% | |
| | 5:3 FTCA | 914637-49-3 | P310724045 | 12.5 | bb | 1.20 | 1.34 | 0.390 | 62.5 | 60-130% | 74.6% | < 30% | 13.1% | |
| | 7:3 FTCA | 812-70-4 | P310724045 | 10.7 | bb | 1.20 | 1.34 | 0.270 | 62.5 | 60-150% | 63.9% | < 30% | 0.1% | |
| Other | ADONA | 919005-14-4 | P310724045 | 8.02 | MM1* | 0.910 | 1.01 | 0.225 | 47.3 | 70-160% | 63.5% | < 30% | 20.6% | Q |
| | 9Cl-PF3ONS | 756426-58-1 | P310724045 | 11.0 | bs | 0.900 | 1.000 | 0.285 | 46.8 | 70-150% | 87.9% | < 30% | 8.0% | |
| | N-MeFOSAA | 2355-31-9 | P310724045 | 2.77 | MM1* | 0.241 | 0.267 | 0.136 | 12.5 | 65-155% | 82.8% | < 30% | 8.8% | |
| | 11Cl-PF3OUdS | 763051-92-9 | P310724045 | 9.74 | bb | 0.910 | 1.01 | 0.227 | 47.3 | 45-160% | 77.1% | < 30% | 10.0% | |
| | N-EtFOSAA | 2991-50-6 | P310724045 | 2.51 | MM1* | 0.241 | 0.267 | 0.129 | 12.5 | 65-165% | 75.0% | < 30% | 14.9% | |
| | PFEESA | 113507-82-7 | P310724045 | 4.88 | bb | 0.428 | 0.476 | 0.0845 | 22.3 | 70-140% | 82.1% | < 30% | 15.8% | |
| ES | M4PFBA | | P310724045 | | bb | | | | 100 | 8-130% | 88.3% | | | |
| | M5PFPeA | | P310724045 | | bs | | | | 50.0 | 35-130% | 88.6% | | | |
| | M5PFHxA | | P310724045 | | bs | | | | 25.0 | 40-130% | 91.3% | | | |
| | M4PFHpA | | P310724045 | | bs | | | | 25.0 | 40-130% | 90.7% | | | |
| | M8PFOA | | P310724045 | | bs | | | | 25.0 | 40-130% | 87.3% | | | |
| | M9PFNA | | P310724045 | | bb | | | | 12.5 | 40-130% | 82.2% | | | |
| | M6PFDA | | P310724045 | | bb | | | | 12.5 | 40-130% | 82.0% | | | |
| | M7PFUdA | | P310724045 | | bs | | | | 12.5 | 40-130% | 74.4% | | | |
| | M2-PFDoA | | P310724045 | | bb | | | | 12.5 | 40-130% | 78.2% | | | |
| | 13C2-PFTeDA | | P310724045 | | bb | | | | 12.5 | 20-130% | 74.1% | | | |
| | M3PFBS | | P310724045 | | bb | | | | 23.3 | 40-135% | 92.6% | | | |
| | M3PFHxS | | P310724045 | | bb | | | | 23.7 | 40-130% | 85.1% | | | |
| | M8PFOS | | P310724045 | | bb | | | | 24.0 | 40-130% | 79.8% | | | |
| | M2-4:2 FTS | | P310724045 | | bb | | | | 46.9 | 40-165% | 74.1% | | | |
| | M2-6:2 FTS | | P020824019 | | bb | | | | 47.6 | 40-215% | 85.4% | | | |
| | M2-8:2 FTS | | P310724045 | | bs | | | | 48.0 | 40-275% | 75.7% | | | |
| | M8PFOSA | | P310724045 | | bs | | | | 25.0 | 40-130% | 70.0% | | | |
| | d3-N-MeFOSA | | P310724045 | | bb | | | | 25.0 | 10-130% | 26.3% | | | |
| | d5-N-EtFOSA | | P310724045 | | bb | | | | 25.0 | 10-130% | 20.7% | | | |
| | d3-N-MeFOSAA | | P310724045 | | bs | | | | 50.0 | 40-135% | 77.6% | | | |
| | d5-N-EtFOSAA | | P310724045 | | bs | | | | 50.0 | 40-150% | 82.1% | | | |
| | d7-N-MeFOSE | | P310724045 | | bb | | | | 250 | 20-130% | 52.4% | | | |
| | d9-N-EtFOSE | | P310724045 | | bb | | | | 250 | 15-130% | 48.9% | | | |

# Enthalpy Analytical

Job No.: 0724-833-3  EPA Method 1633 compliant with Table B-24  (soils/solids)
Florida Gulf Coast University  240617-FGCU-PFAS

## Details

| | | | | | |
|---|---|---|---|---|---|
| Sample Name | 0724-833-021MSD | | | | |
| Sampling Site | | | | | |
| Enthalpy ID | 0724-833-021MSD | Prep Batch | EU17844 | Tare Weight (g) | 0.98 |
| Matrix | Solids | Analyst | ext-richardhuntwork | Wet Weight (g) | 6.3 |
| Sampling Date | | Instrument | Pippin | Dry Weight (g) | 4.92 |
| Received Date | | Sample Vol mL | N/A | Extr. Mass (g) | 5.05 |
| Prep Date | 2024-07-24 15:28 | Extract Vol mL | 5 | Net Weight (g) | 5.32 |
| AnalysisDate | 2024-08-01 11:12 | Split Factor | N/A | Dry Weight (g) | 4.92 |
| SampleType | MSD | Method Code | WM-B-24-Solid | % Solids | 74.1% |
| Bottle ID | - | Parent Sample ID | 0724-833-021-1A | Dry Wt. Equiv (g) | 3.74 |

| | Compound | CAS | Injection File Name | Sample Concentration ng/g | Peak Flags | LOD ng/g | LOQ ng/g | DL ng/g | Spike Amt. (ng) | Recovery Limits | Recovery | MSD RPD Limits | MSD RPD | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M3HFPO-DA | | P310724045 | | bs | | | | 100 | 40-130% | 113.1% | | | |
| JS | M3PFBA | | P310724045 | | bb | | | | 50.0 | >30% | 93.8% | | | |
| | M2-PFHxA | | P310724045 | | bb | | | | 25.0 | >30% | 90.9% | | | |
| | M4-PFOA | | P310724045 | | bb | | | | 25.0 | >30% | 90.5% | | | |
| | M5-PFNA | | P310724045 | | bs | | | | 12.5 | >30% | 81.4% | | | |
| | M2-PFDA | | P310724045 | | bb | | | | 12.5 | >30% | 91.2% | | | |
| | 18O2PFHxS | | P310724045 | | bb | | | | 23.7 | >30% | 105.5% | | | |
| | M4-PFOS | | P310724045 | | bb | | | | 24.0 | >30% | 103.5% | | | |

Peak Flags  bb1*  bb;n R.H.H. 08/02/2024
MM1*  MM;c R.H.H. 08/02/2024

Primary Code
- b: Peak starts or ends on the baseline
- d: Peak starts or ends on a drop line
- v: peak starts or ends on a valley
- s: Peak is a shoulder on another peak
- !: Flagged peak
- l: The response would either give a negative concentration or the calibration equation is not solvable for the given response (indeterminate flag)
- t: Peak starts or ends at the start or end of the trace
- M: The peak start or end point was manually altered
- -: The peak was manually deleted
- X: Point manually excluded from the calibration curve

Secondary Code
- n: Peak was not integrated by the software
- c: Peak was integrated incorrectly by the software
- r: The wrong peak was integrated by the software creating a false positive result based on retention time, qualifier ratios, or other criteria

# Sample Custody

0724-833

# Chain of Custody Record

ENTHALPY ANALYTICAL

Enthalpy Ultratrace Job#: 240617-FGCU-PFAS COC Page 1 of 2

**Special Handling:**
- [x] Standard Turn Around Time
- [ ] Rush Turn Around Time -- Date Needed_____
- All Fast TATs Subject to Approval by Enthalpy Analytical, LLC
- All Samples Disposed of After 6 months Unless Otherwise Instructed.

Enthalpy Analytical-Wilmington, NC has added enhancements to standard methods to improve accuracy, precision and permit an assessment of laboratory performance in the context of your specific data needs.

Client Name: Gayle Dendinger
Project Manager: Marsha Ellis
Report To: Serge Thomas

Project Number: 240617-FGCU-PFAS
Site Name: Lehigh Acres Wells/Heron's Landing
Location: Lehigh Acres / Sanibel Island

PO#: N/A
Telephone#: (239) 822-7826
Email: marshaellis22@gmail.com

This Chain of Custody is applicable to Non-Air samples. Standard TAT differ per analysis and are provided by request.

Client Special Instructions: Opted for EPA 1633 not DOD FL

NO Field or Blank with DW samples (DSS_S1/DSS_S2)

Matrix: GW-Groundwater, WW-Wastewater, NW-Non-Potable Water, DW-Drinking Water, S-Soil, SL-Sludge, BT-Biological Tissue, O-Other

Type: G=Grab C=Composite Q=Quality Control

SAMPLED BY:

Analyte list selections for PFAS by Isotope Dilution
PF = PFOA/PFOS
L24 = Legacy 24 + GenX
P49 = PFAS 49 List
CL = custom list attached

| Sample ID | Date | Time | Sample Volume | Type | Matrix | # of Bottles | # of Jars | # of Bags | # Other | PFAS by Isotope Dilution method | Drinking water EPA 533 | Drinking water EPA 537.1 | PFAS by Isotope Dilution 1633 list | PFAS by DoD Draft 1633 Method | Total Oxidizable Precursor (TOP) | Dioxins/Furans Method 8290A | Dioxins/Furans Method 1613B | Samples to hold | | | Analyte List and Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DSS_S1 | 7.16.24 | 6:10pm | 2x 250ml | ~~DW~~ Grab | DW | 2 | | | | | X | | | | | | | | | | Standard List (P49) |
| DSS_S2 | 7.16.24 | 6:40pm | 2x 250ml | ~~DW~~ Grab | DW | 2 | | | | | X | | | | | | | | | | Standard List (P49) |
| SCL74_W1 | 7.17.24 | 10:48AM | 2x 500ml+ | Grab | NW | 3 | | | | | | | X | | | | | | | | Standard List (P49) |
| SCL74_FIELD BLANK | 7.17.24 | 10:48AM | 2x 500ml+ | ~~Blank~~ QC | NW | 3 | | | | | | | X | | | | | | | | " |
| SCL74_C1 | 7.17.24 | 10:48AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74_S1 | 7.17.24 | 10:48AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74-LS1 | 7.17.24 | 10:48AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74-W2 | 7.17.24 | 11:40AM | 2x 500 250ml+ | Grab | NW | 3 | | | | | | | X | | | | | | | | " |
| SCL74_C2 | 7.17.24 | 11:40AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74_S2 | 7.17.24 | 11:40AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74_LS2 | 7.17.24 | 11:40AM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |
| SCL74_W3 | 7.17.24 | 12:15PM | 2x 500ml+ N/A | Grab | NW | 3 | | | | | | | X | | | | | | | | " |
| SCL74_C3 | 7.17.24 | 12:15PM | N/A | Grab | S | 1 | 1 | | | | | | X | | | | | | | | " |

| Relinquished By: | Date: | Received By: | Date: | Time: | Sample Temperature Upon Receipt: |
|---|---|---|---|---|---|
| | | C. McMullan | 7.18.24 | 1011 | [x] Iced [ ] Ambient °C 7.0 |
| | | | | | [ ] Iced [ ] Ambient °C_____ |
| | | | | | [ ] Iced [ ] Ambient °C_____ |

0724-833

# Chain of Custody Record

ENTHALPY ANALYTICAL

Enthalpy Ultratrace Job#: 240617-FGCU-PFAS COC Page 2 of 2

**Special Handling:**
- ☒ Standard Turn Around Time
- ☐ Rush Turn Around Time -- Date Needed_____
- All Fast TATs Subject to Approval by Enthalpy Analytical, LLC
- All Samples Disposed of After 6 months Unless Otherwise Instructed.

Enthalpy Analytical-Wilmington, NC has added enhancements to standard methods to improve accuracy, precision and permit an assessment of laboratory performance in the context of your specific data needs.

Client Name: Gayle Dendinger
Project Manager: Marsha Ellis
Report To: Serge Thomas

Project Number: 240617-FGCU-PFAS
Site Name: Heron's Landing
Location: Sanibel Island, FL

PO#: N/A
Telephone#: (239) 822-7826
Email: marshaellis22@gmail.com

This Chain of Custody is applicable to Non-Air samples. Standard TAT differ per analysis and are provided by request.

**Client Special Instructions:** opted for EPA 1633 not DOD

**Matrix:** GW-Groundwater, WW-Wastewater, NW-Non-Potable Water, DW-Drinking Water, S-Soil, SL-Sludge, BT-Biological Tissue, O-Other

**Type:** G=Grab C=Composite Q=Quality Control

**SAMPLED BY:**

| Sample ID | Date | Time | Sample Volume | Type | Matrix | Sample Containers: # of Bottles | # of Jars | # of Bags | # Other | Analyses: PFAS by Isotope Dilution method | Drinking water EPA 533 | Drinking water EPA 537.1 | PFAS by Isotope Dilution 1633 list | PFAS by DoD Draft 1633 Method | Total Oxidizable Precursor (TOP) | Dioxins/Furans Method 8290A | Dioxins/Furans Method 1613B | Samples to hold | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCL74_S3 | 7.17.24 | 12:15pm | N/A | GRAB | S | NA | 1 | | | | | | X | | | | | | | |
| SCL74_Sand3 | 7.17.24 | 12:15pm | N/A | GRAB | S | | 1 | | | | | | X | | | | | | | |
| SCL74_WSURF | 7.17.24 | 12:40PM | 2x500ml+ | GRAB | NW | 3 | | | | | | | X | | | | | | | |
| SCL74_W4 | 7.17.24 | 12:48PM | 2x500ml+ | GRAB | NW | 3 | | | | | | | X | | | | | | | |
| SCL74_WSKim | 7.17.24 | 1:08PM | 2x500ml+ | Grab | NW | 3 | | | | | | | X | | | | | | | |
| SCL74_C4 | 7.17.24 | 1:08PM | N/A | Grab | S | | 1 | | | | | | X | | | | | | | |
| SCL74_S4 | 7.17.24 | 1:08PM | N/A | Grab | S | | 1 | | | | | | X | | | | | | | |
| SCL74_Sand4 | 7.17.24 | 1:08PM | N/A | Grab | S | | 1 | | | | | | X | | | | | | | |

**Analyte list selections for PFAS by Isotope Dilution**

**PF** = PFOA/PFOS
**L24** = Legacy 24 + GenX
**P49** = PFAS 49 List
**CL** = custom list attached

**Analyte List and Notes:**

Stnd List of (40)
Stnd List of (40)
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| Relinquished By: | Date: | Received By: | Date: | Time: | Sample Temperature Upon Receipt: |
|---|---|---|---|---|---|
| | | C. McMullen | 7.18.24 | 1011 | ☑ Iced ☐ Ambient °C 7.0 |
| | | | | | ☐ Iced ☐ Ambient °C_____ |
| | | | | | ☐ Iced ☐ Ambient °C_____ |

**Ship samples to: 2712A Exchange Drive • Wilmington, NC 28405** **Office: 2714 Exchange Drive • Wilmington, NC 28405 • (910) 212-5858 • www.enthalpy.com**

JOB ID: 0724-833 Date / Time: 7/18/24 10:11 Initials: C.A.M

OR

Client: Florida Gulf Coast University

Cooler 1 of 1

Temp °C: 7.0 Thermometer ID: T15

Received via
FedEx ☐
UPS ☑
DHL ☐
USPS ☐
Courier ☐
Other ☐

| Check one | |
|---|---|
| On ice: | ☑ |
| Melted ice: | ☐ |
| Ambient: | ☐ |

| Check one | |
|---|---|
| in a Box: | ☐ |
| in a Cooler: | ☑ |
| Cooler in Box: | ☐ |

| | Yes | No |
|---|---|---|
| Cooler seals: | ☐ | ☑ |
| Sample seals: | ☐ | ☑ |
| Good condition: | ☑ | ☐ |

Comment:

Cooler ____ of ____

Temp °C: ____ Thermometer ID: ____

Received via
FedEx ☐
UPS ☐
DHL ☐
USPS ☐
Courier ☐
Other ☐

| Check one | |
|---|---|
| On ice: | ☐ |
| Melted ice: | ☐ |
| Ambient: | ☐ |

| Check one | |
|---|---|
| in a Box: | ☐ |
| in a Cooler: | ☐ |
| Cooler in Box: | ☐ |

| | Yes | No |
|---|---|---|
| Cooler seals: | ☐ | ☐ |
| Sample seals: | ☐ | ☐ |
| Good condition: | ☐ | ☐ |

Comment:

Cooler ____ of ____

Temp °C: ____ Thermometer ID: ____

Received via
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UPS ☐
DHL ☐
USPS ☐
Courier ☐
Other ☐

| Check one | |
|---|---|
| On ice: | ☐ |
| Melted ice: | ☐ |
| Ambient: | ☐ |

| Check one | |
|---|---|
| in a Box: | ☐ |
| in a Cooler: | ☐ |
| Cooler in Box: | ☐ |

| | Yes | No |
|---|---|---|
| Cooler seals: | ☐ | ☐ |
| Sample seals: | ☐ | ☐ |
| Good condition: | ☐ | ☐ |

Comment:

EU163v2 Cooler Receipt form JLT 3/12/24

SERGE THOMAS
MIEL'S APIARY
17850 DEVORE LANE
FORT MYERS FL 33913

60 LBS

1 OF 1

DWT: 24,14,14
AH

SHIP TO:
IP VERHEUL
ENTHALPY ANALYTICAL
2712A EXCHANGE DR
**WILMINGTON NC 28405-6459**

**NC 284 0-01**

**UPS NEXT DAY AIR** **1**

TRACKING #: 1Z G53 7J4 01 2195 8423

ENTHALPY ANALYTICAL

2023/01/24

# This Is The Last Page Of This Report.

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# Ian's storm surge changed Sanibel's freshwater lake environments and now brings a new algae concern




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By: Andrew Shipley

*Posted 6:21 PM, Feb 15, 2023 and last updated 6:46 PM, Mar 02, 2023*

SANIBEL, Fla. — Like many things in Sanibel, after Hurricane Ian, the environment changed significantly. Ponds that once were freshwater before the storm, are now saltwater. That is due to the 8 to 14 feet of storm surge that occurred on Sanibel. And now, that change going back to freshwater could be a slow-go to reverse.

“I expect it to last 1 to 4 years depending on the pond,” said Dr. Serge Thomas with Florida Gulf Coast University’s Water School. Hurricane Ian’s storm surge changed these lakes and ponds in 24 hours' time.

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“All the life that was in those lakes pretty much died off immediately,” said Mark Thompson, a research associate with the Sanibel Captiva Conservation Foundation. “We lost fish. We lost plants. We lost everything that depended on them to survive in our freshwater habitat.”

The changes in salinity are being studied separately by both SCCF and FGCU’s Water School. Both organizations are clear that these changes could cause algae blooms of all types over the next few years.

“We are going to get different kinds of algae blooms in our lakes that people haven’t seen before, just because they are in different habits than before,” said Thompson. “But, there is always going to be some kind of algae that wants to bloom no matter what kind of water you have in your system.”

But why? Dr. Serge Thomas said it is due to the nutrient loading that was in the freshwater lakes prior to Ian.

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r lakes I study in Florida are phosphorus limited, so
the major nutrients that create algae to bloom,” said Dr.

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nutrient nitrogen-rich pond that is in salt water, which actually triggers the algae blooms."

Thompson agrees. He says the best thing we can do is wait it out. And when these become freshwater ecosystems again, we then can address the potential algae issue and remove nutrients that can spark new blooms.

But there's really not much you can do other than wait for the rain. Once we get rain in the system, it will start fresh again, and we then can look at the proper plants in the yard to proper plants in our lakes to control the nutrients.

The clear consensus is it will take some time for the systems to flush themselves out and return to their pre-Ian status. Dr. Thomas adds that this research is key because it hasn't been well documented after previous hurricanes and this could help other locations prepare and recover.

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# City of Sanibel

800 Dunlop Road
Sanibel, FL 33957

## Meeting Minutes - Draft

## Planning Commission

*The times are estimated, but public hearings will not commence prior to the time stated*

**Tuesday, July 25, 2023** | **9:00 AM** | **BIG ARTS - 900 Dunlop Rd**

### 1. Call To Order

The meeting convened at 9:02 a.m.

### 2. Pledge of Allegiance (Chair Grogman)

Chair Grogman led the Pledge of Allegiance.

### 3. Roll Call

**Present:** 5 - Chairperson Roger Grogman, Vice Chair Eric Pfeifer, Commissioner Ken Colter, Commissioner Paul Nichols, and Commissioner Ty Symroski

**Absent:** 2 - Commissioner Laura DeBruce, and Commissioner Lyman Welch

**a.** Motion to excuse absent member(s): Commissioner DeBruce and Commissioner Welch

**Vice Chair Pfeifer moved, seconded by Commissioner Colter to excuse absent Commissioners: Welch and DeBruce. The motion carried.**

**Excused:** 2 - Commissioner Laura DeBruce, and Commissioner Lyman Welch

### 4. Public Comments on Items Not Appearing on the Agenda

Public Comment:
- Matt DePaolis - Environmental Policy Director of Sanibel Captiva Conservation Foundation (SCCF) - spoke to the issue being important enough to address a Community. Adding that Community engagement reflects how much the citizenry cares.

### 5. City Council Liaison Report

Council Liaison Miller gave a brief report regarding the July 18th City Council meeting as follows:

- Received update from Florida Department of Transportation regarding Sanibel Causeway Repair Project
- Presentation from Assistant County Manager, Glen Slayer regarding the Community Development Block Grants (CDBG) funding for the area
- County Action plan to be published Tuesday, August 1, 2023 followed by 9 public meetings

- Heard first reading of 4 items : elevated swimming pools, driveways, site planning for setbacks, as well as the Recreation Center Fee structure as recommended by the consultant study
- Second readings included: eliminating 180 day limitation for temporary recreational vehicles and trailers, ensuring the use of temporary use permits are in compliance with Senate Bill 250 as well as the design standards for build back. Finally, the Ordinance establishing the Parks and Recreation Advisory Committee.
- Approved two contracts: revenue study for the Building Department and the grant for the Tradewinds Drainage project
- Passed preliminary operating millage rate of 2.9598
- Solid Waste Assessment Rate approved - 7.7% increase
- Conducted a shade session to discuss negotiations with City unions
- Selected auditor from the Selection Committee - CliftonAllenLarson, LLP
- Endorsed the principles set forth by the Captiva Community Panel objecting to the proposed changes to height and density restrictions in South Seas/Captiva within the Lee County Land Development Code

Discussion ensued regarding the causeway spoil island parks. Mr. Symroski noted the increased recreational use by Bailey Road and the Commissioners thanked Vice Mayor Miller for the report.

## 6. Consent Agenda

**a.** Adoption of Minutes: July 11, 2023

**Vice Chair Pfeifer moved, seconded by Commissioner Nicols to adopt the July 11th meeting minutes. The motion carried.**

## 7. 9:05 - Public Hearings:

**a.** Consideration of a request for Conditional Use Permit, filed pursuant to Land Development Code Section 82-204 - Application and hearing, and Section 126-91 - Eating places, restaurant, grocery stores, etc., not listed as a permitted use, to allow for an existing restaurant (Shima Japanese Steakhouse) an increase of 32 seats (64 seats total) with no increase to the overall seat count at Sundial Resort (285 seats) referenced in Planning Commission Resolution 15-015, located at 1451 Middle Gulf Drive (Sundial Resort) - tax parcel (STRAP) no. 30-46-23-T4-00009.0010. The application is submitted by Lisa Bramm on behalf of the property owner RLR Investments LLC. **Application No. CUP-2023-000156.**

Planning Director Paula McMichael read into record the description of application CUP-2023-000156.

Deputy City Clerk Anna Hicks polled the Commission for site visits, ex-parte communications, and conflict:

| | | | |
|---|---|---|---|
| - Chair Grogman | Site Visit | No Ex-parte | No Conflict |
| - Vice Chair Pfeifer | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Colter | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Nichols | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Symroski | Site Visit | No Ex-parte | No Conflict |

By motion and second, Commissioners DeBruce and Welch were excused from the meeting.

Deputy Clerk Hicks swore in the following:
- Craig Chandler - Deputy Planning Director
- Holly Milbrandt - Natural Resources Director
- Paula McMichael - Planning Director
- Lisa Bramm - On Behalf of property owner RLR Investments LLC

Craig Chandler, Deputy Planning Director spoke to the proposed request to allow an existing restaurant (Shima Japanese Steakhouse) an increase of 32 seats with no increase to overall seat count. Mr. Chandler summarized the staff report and detailed the attachments included with the agenda packet and gave a brief presentation regarding the proposed changes. Mr. Chandler noted Sundial being compatible with its use, and recognizes this does not change the overall seat count for the property in accordance with Planning Commission Resolution 15-015. Mr. Chandler noted no public comment had been received as of this meeting and that staff recommends approval with the 12 conditions listed in the staff report.

Discussion ensued regarding the front landscaping buffer and whether the beach and dune buffers were compliant. Mr. Chandler noted that prior to Hurricane Ian, the resort was legally conformed use to develop. Further discussion ensued regarding sea turtle lighting and whether the large proposed windows would be compliant. Lisa Bramm, representing the property owner noted the contractor, Sanibel Glass, being very familiar with Sanibel standards and regulations. Director Holly Milbrandt added that staff had reviewed the plans and added standards for sea turtle lighting regulations.

**Commissioner Symroski moved, seconded by Vice Chair Pfeifer, to adopt Resolution 23-23, approving application CUP-2023-000156 with the 12 conditions listed in the staff report, to close the public hearing in this matter, and to authorize the Chair to execute the Resolution without bringing it back for further consideration. The motion carried 5-0 with Commissioners DeBruce and Welch excused.**

**Excused:** 2 - Commissioner Laura DeBruce, and Commissioner Lyman Welch

**b.** Consideration of an application for Development Permit pursuant to Land Development Code Chapter 82, Article IV, Division 2, Subdivision III - Long-Form, Section 82-421(1) and Section 82-422 - Scheduling and notice, accompanied by a Major Subdivision Plat filed pursuant to Land Development Code Section 114-106 - Preliminary plat, to allow a Unified Residential Housing

(Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision. The subject properties are located at STRAP tax parcel no. 13-46-21-T2-00002.2000 and 13-46-21-T2-00002.4000. The application is submitted by Brian Smith, Ensite Inc., on behalf of the property owner, Buckingham 225 Development Inc. (Daniel W. Dodrill). **Application No. SPLT-2022-000074 and Application DP-2021-001803.**

Planning Director Paula McMichael read into the record the description of applications of SPLT-2022-000074 and DEP- 2021-001803.

Deputy City Clerk Anna Hicks polled the Commission for site visits, ex-parte communications, and conflict:

| | | | |
|---|---|---|---|
| - Chair Grogman | Site Visit | No Ex-parte | No Conflict |
| - Vice Chair Pfeifer | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Colter | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Nichols | Site Visit | No Ex-parte | No Conflict |
| - Commissioner Symroski | Site Visit | No Ex-parte | No Conflict |

By motion and second, Commissioners DeBruce and Welch were excused from the meeting.

Deputy Clerk Hicks swore in the following:
- Craig Chandler - City of Sanibel - Deputy Planning Director
- Holly Milbrandt - City of Sanibel - Natural Resources Director
- Korroush Saeian - President of Heron's Landing HOA
- Cathy Kozik - 5419 Osprey Court
- Sally Haynes - 5430 Osprey Court
- Doug Stimmel - 5418 Osprey Court
- Gil Dendinger - 5406 Osprey Court
- Melissa Laidlaw - 1983 My Tern Court
- Ed Ridlehoover - 4547 Buck Key Road
- Menashe Ben-David - 1983 My Tern Court
- Barbara Joy Cooley - Environment Committee CoChair - Committee of the Islands
- Brian Smith - Ensite - on behalf of Applicant Buckingham 225 Development Inc
- Don Main - RMA Geologic Consultants
- Dan Dodrill - Applicant Buckingham 225 Development Inc
- Sawyer Smith - Attorney on behalf of Applicant Buckingham 225 Development Inc

Attorney Agnew spoke to the process for the hearing, stating that this was an entirely new hearing and the previous applications and evidence were not being considered today. Deputy Planning Director Chandler entered the staff report including

attachments as City exhibit C-1. Mr. Chandler provided a brief Powerpoint presentation that detailed the project and the task of the Commission.

Holly Milbrandt, Director of Natural Resources, spoke to the report provided by the Natural Resources Department, speaking to the history of the site being a wastewater package plant and focusing on departmental processes to review Land Development Code Section 86-40. Ms. Milbrandt further summarized her report and spoke to the positives of Unified Residential Housing also known as Cluster Housing. She further detailed the part of the City owned parcel which contains an existing active bird rookery, including how this property does not directly abut the lake but the department would still be reviewing to protect the adjacent environmental habitats. Ms. Milbrandt additionally spoke to water discharge and the distance from the vegetation setback standards. Ms. Milbrandt then detailed working with the Department of Environmental Protection (DEP) to locate the Certificate of Completion for remediation of the site. Ms. Milbrandt detailed how the City changed the zoning use of the property which included additional soil testing that was submitted to the DEP who required no additional testing. Ms. Milbrandt concluded by detailing the soil and groundwater reports included in the staff report.

Mr. Chandler spoke to the Staff recommendation of approval with the 25 conditions listed in the staff report.

Commissioner Colter stepped out of the meeting at 10:16 a.m.

Chair Grogman asked the applicants to provide their presentation:

Sawyer Smith spoke to staff being thorough and that the applicant agrees with all conditions listed except the one that requires 100% native coverage in the landscaping, requesting the allowance for 75% native coverage on the six residential lots.

Commission Colter rejoined the meeting at 10:20 a.m.

Commissioner Symroski inquired of Staff about process, detailing how he sees two applications - one for clearing and developing the plot and the other being the preliminary plat planning neither of which authorize the immediate building of homes. Mr. Chandler confirmed. Mr. Symroski spoke regarding the final plat approval and how the plots would be numbered and no longer named by monument/place/legal description. He further inquired about requiring an HOA (Home Owners Association) to maintain the common areas, noting this could be the only time to look at these standards and require more deed restrictions. Mr. Chandler noted the final plat review will include all the concerns Mr. Symroski brought forward but that today the Commission would be looking at the actual building and landscaping techniques to

protect the environment.

Vice Chair Pfeifer reminded the Commission why the item was remanded back from City Council due to failure to properly apply LDC Section 86-40 - Location and Construction Maintenance that minimizes environmental impacts. Mr. Pfeifer noted Staff was doing a good job at presenting the information and minimizing environmental damage. Commissioner Colter and Chair Grogman echoed Vice Chair Pfeifer's comments.

Public Comment:
- Mr. Bob Brooks - Attorney for Heron's Landing Homeowners provided a brief Powerpoint presentation (Presentation added to the record.)
- Doug Stimmel - 5418 Osprey Court - overall spoke to concerns with nutrient loads in the lake
- Cathy Kozik - Heron's Landing Resident - spoke to the need to be stewards of the land and use of the environment around Sanibel
- Melissa Laidlaw - spoke to health concerns with blue-green algae. Commission inquired about the date of the photo in the presentation. Ms. Laidlaw noted it was taken by Natural Resources on June 21st.
- Sally Haines - Osprey Court - spoke to living on the most polluted lake on the island and inquired why the City would allow more homes to be built on or near the most polluted lake on Sanibel Island.
- Dr. Korroush Saeian - Cardiologist - spoke to environmental issues being exacerbated by algae blooms.
- Ed Ridlehoover - Sanibel Bayous - expressed concerns for the maintenance at the entryway to Herons Landing, Sanibel Bayous, and others, noting there was no mention that Coastal Creek would be required to help with the maintenance at the front of the development.
- Gil Dendinger - spoke to the need to work with homeowners to make the plat a preserve. Owners would have to agree to sell to preserve this land thus the Sanibel plan could be abided by.
- Barbra Joy Cooley - Committee of the Islands: Environment Committee Chair, Commended residents of Heron's Landing and Sanibel Bayous for bringing discussion forward.

Chair Grogman spoke to the process of the hearing, concerns for whether construction will exacerbate issues with the lake or remediate them, would this change help or hurt, and to what degree the Community acts in order to find a benefit for all parties.

The meeting recessed at 11:17 a.m. and reconvened at 11:22 a.m.

Sawyer Smith introduced Don Main, who provided a brief background of his

experience and stated the proposed development would not exacerbate the nutrient loads of the lake. Commission inquired why the nutrient loads would not get worse to which Mr. Main simply answered that the typical remediation was completed and that fill was placed on the site following remediation.

Commissioner Nichols inquired if the testing was comprehensive enough, if the report was based on DEP's request for additional sampling, inquired about the depth of testing, and noted hearing two different scientists on either side of the table. The Applicant's team then clarified that the testing had been performed at the proposed locations of the homes.

Discussion ensued whether there would be more data if more samples were taken and the types of nutrients found in the soil bores. The Commission further inquired about the comment that phosphorus has no adverse health effects which Mr. Main confirmed. Vice Chair Pfeifer noted the Community recognizes issues with phosphorus loads, forcing water around the land and not through it.

Chair Grogman spoke to the removal of the soil remediation effort and inquired if that the accepted remediation effort. Further noting that encapsulation is not DEP’s methodology simply because it's still there. Mr. Grogman concluded by inquiring if the City did anything more than place more fill and scrape the soil to which Staff replied they followed the recommendations of the DEP.

Mr. Brooks stated in looking at plans and site; construction will only disturb the necessary areas to build homes and roadways. Limiting disturbances by adding more fill and not digging, adding more layers. He further noted working with the City’s rules and requirements. Getting conditions that have gone above and beyond any other property but being happy to comply.

Discussion ensued in regards to damages to the lake water quality and what factors in overall lake health. Continued discussion ensued regarding excavation and digging for utilities. Commissioner Symroski inquired if the excavated materials from digging for utilities and landscaping will be held in a nonporous container so that rainwater does not leach the underlying ground. Some means during the excavation to contain the phosphorus loaded soil.

Deputy Planning Director Chandler noted the condition only addresses excavation in terms of placement of a residential swimming pool. Excavation does not address plantings or utility placement.

Discussion ensued regarding setbacks and exterior home maintenance and whether contractors or owners would be doing work outside the property line in order to make repairs. For example erecting scaffolding for repair work entering the protected

common areas and or neighboring properties. Mr. Chandler noted Staff would not authorize work that impacts any of these areas.

Discussion continued regarding the condition for 100% native vegetation. Commissioner Symroski inquired about the front of the road and entrance landscaping. Mr. Smith on behalf of the owner noted the property came with entrance easement access. The deed is included in the agenda packet. Discussion ensued regarding roadside parking. Staff noted the road side parking prohibitions would be enforceable in public rights-of-way.

Vice Chair Pfeifer noted the proposed development is consistent with Sanibel Plan and Land Development Code Section 86-40 (Cluster Housing) and so does the accompanying plat and spoke to the referenced lake not being a concern to the applicant as it is not abutting the proposed site.

Chair Grogman spoke to the lake being singled out due to the extent of the conditions, inquired as to what level the nutrients needed to be to improve the conditions of the lake, concurring with the fact that the Applicants did not cause the nutrient loads in the lake, and if a condition for remediation would be appropriate. Ms. Milbrandt commented that the lake is jointly owned between the City and the 9 owners who abut the lake, noting lake management reports include sampling community lakes as well as the canal system. Additional sampling occurring for all water bodies due to Hurricane Ian impacts. Any additional sampling would require approval and funding by Council.

Public Comment:
- Ralph Brooks - Heron's Landing Attorney - Expressed concerns for lake water quality

Discussion ensued regarding the 75% native/25% non-native requirements and if they were applicable to Heron's Landing or if they too had to comply with 100% native vegetation. Attorney Agnew spoke to the agreement differences. Deputy Planning Director Chandler reminded the Committee that the lake is not included in the proposed conditions by staff as best management practices.

Commissioner Colter inquired if the City should look at the possibility of adding berms or mitigation measures for current Osprey Court owners. Attorney Agnew responded that this would be a City consideration and that conversation has not occurred.

Discussion ensued regarding modifying conditions to allow for 75/25 native vegetation on the small 6 lots and removing all excavated soils from the site, including for swimming pools, foundations, and utility trenches. Attorney Agnew proposed the

amendment to Condition 19 be "All landscaping within the Coastal Creek subdivision shall be 100% native except the six platted lots which are required to be at least 75% native; the use of sod is prohibited."

Vice Chair Pfeifer inquired if the applicant is comfortable with proposed condition 22 related to soil disposal. Mr. Smith noted the cost being prohibitive and stated that this would be an unfavorable burden for the project. Discussion ensued regarding the City's definition of excavation. Mr. Smith noted the deminimus amount of soil that would have to be removed. Mr. Chandler spoke to the intentions of the conditions and the specifics of the site related to contaminated soils. Mr. Chandler noted the intention was to remediate by the placement of fill being used as opposed to the soil from the original site.

**Commissioner Pfeifer moved, seconded by Commissioner Colter to approve Resolution 23-24, approving application SPLT-2022-000074 and DP-2021-0001803 with the 24 conditions listed in the staff report, with the revision to the whereas clause to reference 86-40, and amending Condition 19 as state by Attorney Agnew, to close the public hearing in this matter, and to authorize the Chair to execute the Resolution without bringing it back for further consideration. The motion carried by a vote of 4-1 with Commissioner Symroski opposed and Commissioner DeBruce and Welch excused..**

**Opposed:** 1 - Commissioner Ty Symroski

**Excused:** 2 - Commissioner Laura DeBruce, and Commissioner Lyman Welch

## 8. Report from Planning Department

**a.** Upcoming meeting dates:

i. Planning Commission - Tuesday, August 8, 2023

ii. Report to City Council - Tuesday, August 15, 2023 - Chair Grogman

iii. Below Market Rate Housing Review Subcommittee Meeting - Tuesday, September 26, 2023

Planning Director McMichael spoke to the next meeting on Aug 8th pertaining to one public hearing for water ward extension and cancelling the October 10th meeting. The Land Development Code Subcommittee meeting on the 24th will be for Green Building standards and best practices. Finally the Below Market Rate Housing Meeting will be held on September 26th.

Holly Milbrandt Director of Natural Resources spoke to Coconut palms and the Proposed changes to vegetation Standards, Senate Bill 250 cannot make more strict rules post storm. Coconut palm was added in 2011 to the invasive exotic plants list. Planting in the gulf beach zone is prohibited and staff has spent lots of time educating the public of the status of the coconut palm. Ms. Milbrandt spoke to reviewing the code to make allowances for plaiting of coconut palms in particular zones.

## 9. Report from Commission Members

Commissioner Pfeifer inquired about height limits and process for changes on Sanibel to which discussion with staff ensued.

## 10. Public Comment

There were no additional public comments.

## 11. Adjournment

There being no further business, the meeting adjourned at 1:36 p.m.

# COASTAL CREEK

## MAJOR SUBDIVISION AND
## SITE DEVELOPMENT PLANS

PART OF SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST
SANIBEL, FLORIDA

PREPARED FOR: Buckingham 225 Development, Inc.

### PARCEL ZONING
D-2 RESIDENTIAL DISTRICT

### PARCEL STRAP NUMBERS
13-46-21-T2-00002.2000

13-46-21-T2-00002.4000

### PARCEL BOUNDARY
±3.36 ACRES

### FLOOD ZONE DESIGNATION
ZONE VE: ELEV. 11 N.A.V.D.

CONSTRUCTION
INFORMATION

811 Know what's below. Call before you dig.

CALL 811 OR VISIT
WWW.SUNSHINE811.COM




VICINITY MAP
N.T.S.

PLAN INDEX

| SHEET NO. | DESCRIPTION |
|---|---|
| C-01 | COVER SHEET, VINCINTY MAP & INDEX |
| C-02 | GENERAL NOTES |
| C-03 | AERIAL MAP |
| C-04 | SOILS & EXISTING CONDITIONS MAP |
| C-05 | EROSION & SEDIMENT CONTROL PLAN |
| C-06 | SITE PLAN |
| C-07 | PAVING, GRADING & DRAINAGE PLAN |
| C-08 | TYPICAL SECTIONS |
| C-09 | PAVING, GRADING & DRAINAGE DETAILS |
| C-10 | UTILITY PLAN |
| C-11 | UTILITY DETAILS |
| ~~LA-01~~ | ~~EXISTING LANDSCAPE & DEMOLITION~~ |
| ~~LA-02~~ | ~~LANDSCAPE PLAN~~ |
| ~~LA-03~~ | ~~EXISTING VEGETATION~~ |
| ~~LA-04~~ | ~~LANDSCAPE DETAILS~~ |

**SITE PLAN SET**

**CERTIFICATION BY ENGINEER**

THIS DOCUMENT IS SIGNED AND SEALED TO SECURE THE DATA IN THE PERMIT APPLICATION AND ANY REFERENCED SHEETS THAT WERE SUBMITTED ELECTRONICALLY AS DESCRIBED IN FLORIDA ADMINISTRATIVE CODE (PROCEDURES FOR SIGNING AND SEALING ELECTRONICALLY TRANSMITTED PLANS, SPECIFICATIONS, REPORTS OR OTHER DOCUMENTS) FOR THE APPLICABLE REGISTERED PROFESSIONAL REGULATORY BOARD. SHEETS INCLUDE: C-01, C-02, C-05-C-10

Jonathan Wadas, P.E.

Digitally signed by Jonathan Wadas, P.E.
DN: C=US, E=jonathanw@en-site.com, O="EnSite, Inc.", OU=State of Florida License No. 76911, CN="Jonathan Wadas, P.E."
Date: 2022.06.29 08:42:09-04'00'

| | |
|---|---|
| THE SEAL APPEARING ON THIS DOCUMENT IS AUTHORIZED BY: | |
| REGISTERED PROFESSIONAL: | JONATHAN WADAS |
| LICENSE: | LIC. # 76911 |
| DATE: | 6-26-22 |
| REGISTERED PROFESSIONAL COMPANY: | ENSITE, INC. |


ensite
2401 FIRST STREET, SUITE 201
FORT MYERS, FLORIDA 33901
PH: (239)-226-0024
EB-26544 CA-LC26000374


Buckingham 225 Development, Inc.
5961 Northland Rd.: #1
Fort Myers, FL 33905
CLIENT NAME AND ADDRESS

COASTAL CREEK
SANIBEL, FLORIDA
PROJECT NAME AND LOCATION

This item has been electronically signed and sealed by Jonathan Wadas, PE, on 6/29/2022 using a SHA authentication code.Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

JONATHAN WADAS LICENSE No. 76911 STATE OF FLORIDA PROFESSIONAL ENGINEER

JONATHAN WADAS, PE
FL License No. 76911

| NO. | REVISION | DATE |
|---|---|---|
| R1 | PER SFWMD AND CITY COMMENTS | 2-18-22 |

REVISIONS DESCRIPTION

| | |
|---|---|
| DATE: | 9-17-21 |
| PROJECT NO. | 1419-01 |
| FILE NO. | 1419-01 CNA.dwg |
| SCALE: | AS SHOWN |

COVER SHEET, VINCINTY MAP & INDEX
SHEET TITLE

C-01
SHEET NUMBER

C:\Users\brians\Ensite\Active Projects - Documents\1419 Daniel Wayne Homes\1419-01 Sanibel 3,35 Acres\CAD\Engineering_Working Files\1419-01 CNA.dwg (COV) brians Jun 29, 2022 - 6:53am

## GENERAL NOTES:

1. THE SURVEY SHOWS EXISTING EASEMENTS, IF ANY, THAT WERE PROVIDED.
2. PROPOSED AND EXISTING ELEVATIONS ARE BASED ON NAVD88.
3. THIS SITE IS LOCATED IN FEMA FLOOD ZONE VE 11.
4. THIS SITE CAN BE USED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOOD OR ADVERSE SOIL OR FOUNDATION CONDITIONS CONTINGENT UPON SOIL BORINGS AND DESIGN FOR EACH STRUCTURE BY THE BUILDING ARCHITECT TO ACCOMMODATE SUBSOIL CONDITIONS. THIS STATEMENT DOES NOT INCLUDE SINKHOLES.
5. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION, AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER/ENGINEER WITHOUT DELAY.
7. EXISTING FACILITIES SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS, (LATEST EDITION). AND CITY OF SANIBEL STANDARDS, DETAILS, AND SPECIFICATIONS.
9. LOCATIONS OF INLETS AND STORM DRAINS MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION.
10. THE CONTRACTOR IS REQUIRED TO ADJUST ALL VALVE BOXES, MANHOLE RIMS, GRATES, FIRE HYDRANTS, ETC. AS NECESSARY TO MATCH PROPOSED GRADES.
11. CONTRACTOR SHALL NOTIFY CITY OF SANIBEL A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
12. CONTRACTOR TO PROVIDE AND MAINTAIN SILT FENCE AND OTHER APPROPRIATE MEASURES TO EFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH GRASS OR SUITABLE EROSION PROTECTION TREATMENT.
13. PROPOSED ROADWAYS SHOWN ARE PRIVATE AND SHALL BE PRIVATELY MAINTAINED.
14. ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH NATIVE VEGETATION AND MULCHED UNLESS NOTED OTHERWISE.
15. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
16. CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION.
17. CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
18. CONTRACTOR SHALL CLEAR ALL EXCAVATION AND FILL AREAS; ACTUAL LIMITS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY OWNER OR ENGINEER. CLEARING SHOULD ADHERE TO LDC ECOZONE STANDARDS.
19. CONTRACTOR SHALL REMOVE ALL MUCK AND OTHER UNSUITABLE MATERIAL FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, IF ENCOUNTERED. ALL MUCK AND OTHER UNSUITABLE MATERIAL EXCAVATED FROM LAKES OR REMOVED FROM FIll AREAS SHALL BE STOCKPILED AT THE PROPOSED PROJECT AS DETERMINED BY THE OWNER.
20. SITE GRADES MAY BE ADJUSTED IN FIELD BY ENGINEER.
21. LOCATION OF STORM DRAINAGE END TREATMENTS ARE SUBJECT TO MODIFICATION IN THE FIELD BY OWNER OR ENGINEER TO PRESERVE EXISTING VEGETATION.
22. CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES FOR EMPLOYEES AND DELIVERY OF MATERIALS.
23. THE LOCATIONS OF EXISTING UTILITIES AND STORM SEWERS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORD DRAWINGS AND FIELD INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION PRIOR TO CONSTRUCTION AND PROVIDE IN WRITING ANY DISCREPANCIES TO THE ENGINEER.
24. DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
25. THE CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS AND DEPTHS OF ALL IMPROVEMENTS INSTALLED ON A FINAL SET OF RECORDED DRAWINGS WHICH SHALL BE DELIVERED TO THE ENGINEER.
26. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
28. ANY CRACKS OR DAMAGE TO THE SIDEWALK, DRIVEWAY APRON, ROADWAY, STREET-TREES, LIGHTING, METER BOXES, BACKFLOW PREVENTERS, CLEAN-OUTS, STORM-WATER STRUCTURES, OR VALVES WILL NEED TO BE REPAIRED PER PUBLIC WORKS DIRECTOR OR ASSIGNED DESIGNEE.
29. NO PONDING OR STANDING WATER WILL BE ALLOWED THROUGHOUT THE SITE IN CONSTRUCTION AREAS AND A LEVELING COURSE MAY BE REQUIRED.

## GENERAL UTILITY NOTES:

1. ALL WORK SHALL CONFORM TO LATEST REVISION OF CITY OF SANIBEL AND THE ISLAND WATER ASSOCIATION INC (IWAI) UTILITIES DESIGN STANDARDS.
2. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY CITY OF SANIBEL PUBLIC WORKS OR IWAI.
3. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. CITY OF SANIBEL AND IWAI SHALL BE NOTIFIED 48 HOURS PRIOR TO PROJECT MOBILIZATION.
4. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LEE COUNTY UTILITIES SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
5. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LEE COUNTY UTILITIES IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO SATISFY THE SPECIFICATIONS AND TO COMPLETE WORK.
7. LEE COUNTY UTILITIES INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.
8. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. LEE COUNTY UTILITIES WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.
10. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER.
11. ALL REGULATORY AND PERMITTING AGENCY REQUIREMENTS SHALL BE COMPLIED WITH.
12. IN THE EVENT THAT HARD LIMESTONE FORMATION IS ENCOUNTERED, MAKING IT IMPOSSIBLE TO EXCAVATE TO THE DEPTH REQUIRED UNDER THIS CONTRACT, THE CONTRACTOR MAY BE ALLOWED TO REDUCE THE PIPE COVER TO NOT LESS THAN TWO (2) FEET WHILE MAINTAINING LEE COUNTY UTILITIES REQUIRED THICKNESS OF BEDDING UNDER THE PIPE. SUCH DEVIATION FROM THE PLANS MUST BE FIRST BE APPROVED BY LEE COUNTY UTILITIES AND THE ENGINEER PRIOR TO THE PIPE LAYING. IF TWO FEET OF COVER OR MORE CAN NOT BE ATTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHOD OF CONSTRUCTION OR PIPE PROTECTION WHICH SHALL FIRST BE APPROVED BY LEE COUNTY UTILITIES AND THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
13. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LEE COUNTY UTILITIES IMMEDIATELY CONCERNING ANY CONFLICTS WITH LEE COUNTY UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
15. TRAFFIC MUST BE MAINTAINED AT ALL TIMES PER CITY OF SANIBEL AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
16. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
17. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
18. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITION WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
19. ALL FRAMES, COVERS VALVE BOXES, METER BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS ALLOWED.
20. LOCATIONS OF PROPOSED UTILITY LINES ARE SUBJECT TO MODIFICATION TO PRESERVE EXISTING VEGETATION AS DETERMINED BY THE ENGINEER AND NATURAL RESOURCES IF AVAILABLE.
21. CONTRACTOR TO PROVIDE UTILITY RECORD DRAWINGS TO OWNER PRIOR TO FINAL PAYMENT REQUEST.
22. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SANITARY SEWER AND POTABLE WATER LINES. WHERE IT IS NOT PRACTICAL TO MAINTAIN THIS SEPARATION, THE WATER MAIN (OR REUSE LINE) AND SEWER LINE SHALL BE LAID IN SEPARATED TRENCHES SO THAT AT LEAST 18" SEPARATION BETWEEN THE INVERT OF THE UPPER PIPE (WATER OR REUSE LINE) AND THE CROWN OF THE LOWER PIPE (SEWER LINE) IS MAINTAINED. ALTERNATELY, THE SEWER LINE OR THE WATER MAIN (OR REUSE LINE) MAY BE PLACED IN A SLEEVE TO OBTAIN THE EQUIVALENT OF THE 10' SEPARATION.
23. SEWER LINES AND POTABLE WATERLINES (OR REUSE LINES) SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND CROWN OF THE LOWER PIPE AT CROSSINGS. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER MAIN AND WATER MAIN (OR REUSE LINE) JOINTS ARE AN EQUAL DISTANCE FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. ALTERNATELY, THE SEWER MAIN OR THE WATER MAIN (OR REUSE LINE) MAY BE PLACED IN A SLEEVE TO OBTAIN THE EQUIVALENT OF THE REQUIRED SEPARATION.
24. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE.
25. CONTRACTOR SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED MAXIMUM DEFLECTION WHEN DEFLECTING PIPE. ENGINEER WILL DETERMINE MAXIMUM DEFLECTION AFTER PIPE MANUFACTURER IS SELECTED.
26. THE CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES AND MAINTAIN AN AS-BUILT PLAN. PRIOR TO FINAL ACCEPTANCE, THIS PLAN WILL BE FURNISHED TO THE ENGINEER. THE CONTRACTOR SHALL ALSO FURNISH THE ENGINEER WITH A STATEMENT THAT THE AS-BUILT PLAN REPRESENTS ALL CHANGES MADE AND THAT THE LOCATION OF WATER LINES SHOWN ARE WITHIN 2'.
27. UTILITY EASEMENTS FOR WATER, SEWER, POWER, AND TELEPHONE COMPANIES WILL BE PROVIDED AFTER INSTALLATION OF THOSE UTILITIES IS COMPLETED AND AS-BUILT LOCATIONS KNOWN.

## PAVING, GRADING AND DRAINAGE NOTES:

1. LENGTH OF STORM DRAIN PIPES ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE.
2. CONTRACTOR SHALL NOTIFY CITY OF SANIBEL A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
3. CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA 72 HOURS (MIN) PRIOR TO COMMENCING CONSTRUCTION.
4. PLACE 200 S.F. OF SOD AROUND ALL INLETS, HEADWALLS, AND CONTROL STRUCTURES IN OPEN SPACE AREAS UNLESS SPECIFIC LANDSCAPING HAS BEEN PROVIDED. USE ARGENTINE BAHIA AND CONFORM TO FDOT SECTION 575.
5. PLACE 18" OF SOD CONTINUOUS ALONG EDGES OF PAVEMENT OF ALL ROADS AND/OR CURB, LAYING PARALLEL WITH THE ROAD MAINTAINING 1" BELOW FINISHED PAVEMENT GRADE.

## WATER LINE NOTES:

1. THE ENDS OF ALL CAPPED IRRIGATION AND POTABLE WATERLINES SHALL BE MARKED WITH ELECTRONIC MARKERS AND 2'X4' STAKES 5' IN LENGTH WITH 2' ABOVE GROUND.
2. ALL POTABLE AND IRRIGATION WATERLINES SHALL BE AWWA C-900, DR18, CLASS 150 PVC UNLESS OTHERWISE NOTED. POTABLE WATERLINES LOCATED UNDER PROPOSED PAVEMENT SHALL BE AWWA C-900, DR 14 PVC.
3. ALL WATERLINES SHALL HAVE A MINIMUM COVER OF 30" AND A MAXIMUM OF 48" BELOW FINISHED GRADE.
4. CONTRACTOR SHALL USE 45° BENDS WITH MEGALUGS AT CONFLICTS.
5. NOT ALL PROPOSED BENDS ARE SHOWN IN WATERLINE. ADDITIONAL FITTINGS MAY BE REQUIRED TO BEND WATERLINE AS SHOWN.
6. THE CONTRACTOR SHALL PLACE PROPOSED VALVES AS SHOWN. THE VALVE BOX SHALL NOT BE LOCATED IN PAVEMENT OR DRIVEWAY AREAS.
7. PROPOSED FIRE HYDRANTS SHALL BE LOCATED AS SHOWN ON UTILITY DETAIL SHEETS. THE CONTRACTOR SHALL PROVIDE AND INSTALL REFLECTIVE PAVEMENT MARKERS AS REQUIRED NEAR PROPOSED FIRE HYDRANTS.
8. WATER MAIN TO BE 5' MINIMUM CLEARANCE DISTANCE FROM BACK OF CURB.

## SANITARY SEWER / FORCE MAIN NOTES:

1. ALL PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE OR FITTINGS.
2. ALL GRAVITY SEWER LINES SHALL BE PVC (SDR-26) UNLESS NOTED OTHERWISE.
3. CLEANOUT TOP ELEVATIONS ARE APPROXIMATE AND SHOULD BE ADJUSTED TO FINAL ELEVATION.
4. ALL SANITARY SEWER SERVICE INVERTS TO BE PLACED 36" BELOW BACK OF CURB (MIN. 1% SLOPE) TYPICAL UNLESS IN CONFLICT WITH WATERLINE.
5. U.S. FOUNDRY CLEAN OUT RING AND COVER IS REQUIRED IN ALL AREAS, INCLUDING GREEN AREAS.

## SIGNING AND PAVEMENT MARKING NOTES:

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION), "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)", AND CITY OF SANIBEL REQUIREMENTS.
2. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.
3. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

## CLEARING AND SITE PREPARATION NOTES:

1. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS

## LEE COUNTY STANDARD DETAIL NOTES:

1. ALL REFERENCES TO LEE COUNTY STANDARD DETAILS ARE FROM THE LEE COUNTY STANDARD DETAILS AND SPECIFICATIONS, CURRENT VERSION. THESE STANDARD DETAILS WERE PREPARED BY OR AT THE DIRECTION OF LEE COUNTY AND WERE FURNISHED TO ENSITE, INC.
2. THE STANDARD DETAILS REFERENCED WITHIN THIS PLAN SET HAVE BEEN INCORPORATED HERIN VERBATIM AS SET FORTH WITHIN THE ABOVE REFERENCED LEE COUNTY UTILITIES STANDAR DETAILS AND SPECIFICATIONS, CURRENT VERSION.

## LANDSCAPE NOTE:

SEE LANDSCAPE PLANS FOR PLANTING REQUIREMENTS, LOCATIONS AND SPECIFICATIONS.

## UTILITIES SERVING THIS SITE:

WATER SERVICE BY:

THE ISLAND WATER ASSOCIATION, INC.
3651 SANIBEL CAPTIVA RD.
SANIBEL, FL 33957
(239) 472-1502

SEWER SERVICE BY:

CITY OF SANIBEL PUBLIC WORKS
750 DUNLOP RD.
SANIBEL, FL 33957
(239) 472-6397

CABLE AND INTERNET SERVICE BY:

COMCAST CABLE
4290 COLONIAL BOULEVARD
FORT MYERS, FLORIDA 33966
(239) 277-5679
&
CENTURY LINK
2820 CARGO STREET
FORT MYERS, FLORIDA 33916
(239) 336-2011

ELECTRIC SERVICE BY:

LCEC SANIBEL
5050 SANIBEL CAPTIVA RD
SANIBEL, FL 33957
(239) 995-2121

TELEPHONE SERVICE BY:

COMCAST CABLE
4290 COLONIAL BOULEVARD
FORT MYERS, FLORIDA 33966
(239) 277-5679
&
CENTURY LINK
2820 CARGO STREET
FORT MYERS, FLORIDA 33916
(239) 336-2011

REFUSE COLLECTION SERVICE BY:

ADVANCED DISPOSAL
17101 PINE RIDGE RD.
FORT MYERS BEACH, FL 33931
(239) 334-1224

FIRE AND RESCUE SERVICE BY:

SANIBEL FIRE AND RESCUE
2351 PALM RIDGE RD.
SANIBEL, FL 33957
(239) 472-5525

NATURAL GAS SERVICE BY:

N/A

ensite
2401 FIRST STREET, SUITE 201
FORT MYERS, FLORIDA 33901
PH: (239)-226-0024
EB-26544 CA-LC26000374

Buckingham 225 Development, Inc.
5961 Northland Rd. #1
Fort Myers, FL 33905
CLIENT NAME AND ADDRESS

COASTAL CREEK
SANIBEL, FLORIDA
PROJECT NAME AND LOCATION

JONATHAN WADAS LICENSE No. 76911 STATE OF FLORIDA PROFESSIONAL ENGINEER

JONATHAN WADAS, PE
FL License No. 76911

| NO. | REVISION | DATE |
|---|---|---|
| R1 | PER SFWMD AND CITY COMMENTS | 2-18-22 |

REVISIONS DESCRIPTION

| | |
|---|---|
| DATE: | 9-17-21 |
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GENERAL NOTES

SHEET TITLE

C-02

SHEET NUMBER

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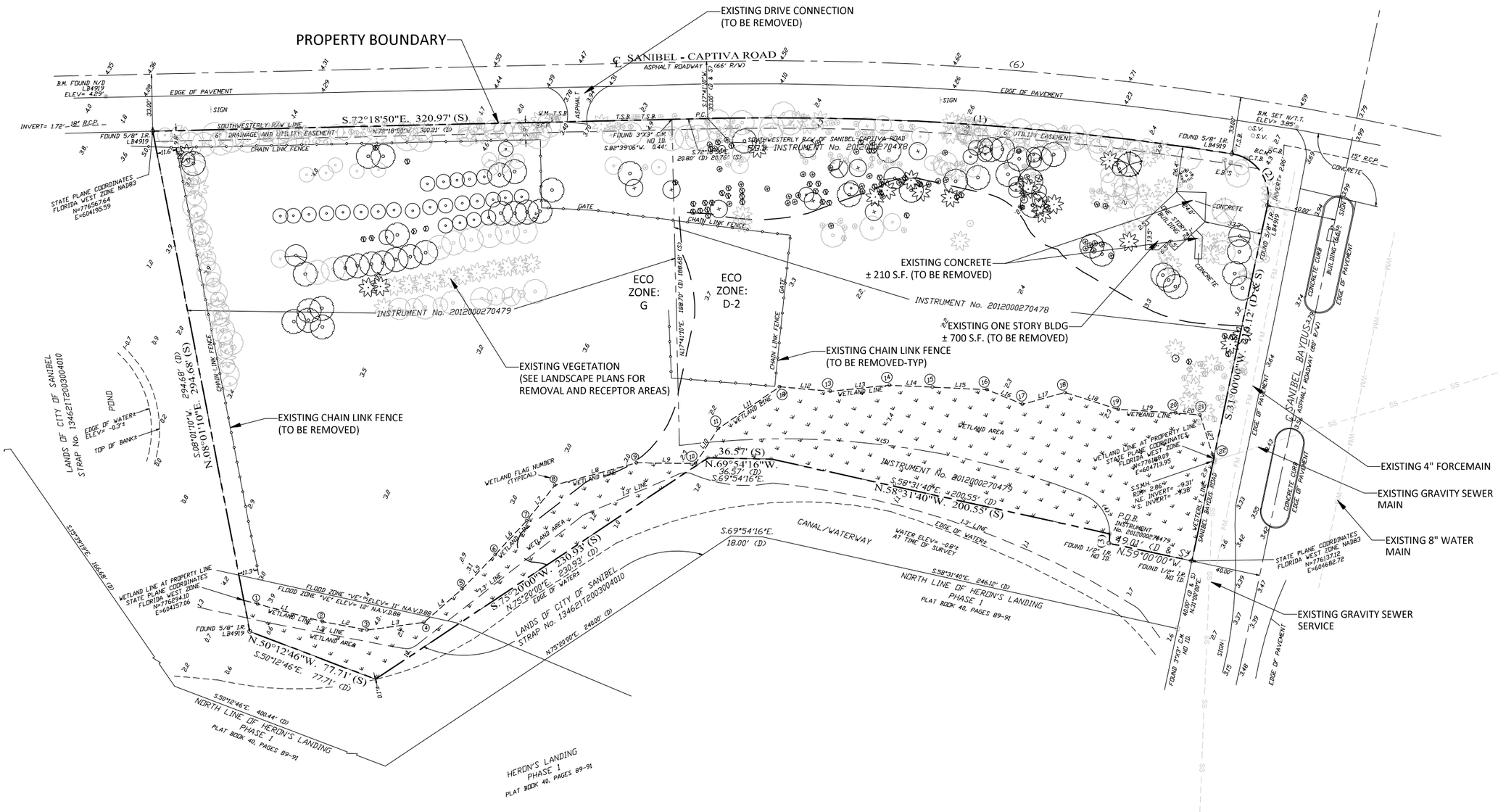
AERIAL MAP

SHEET TITLE

C-03

SHEET NUMBER

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REVISIONS DESCRIPTION

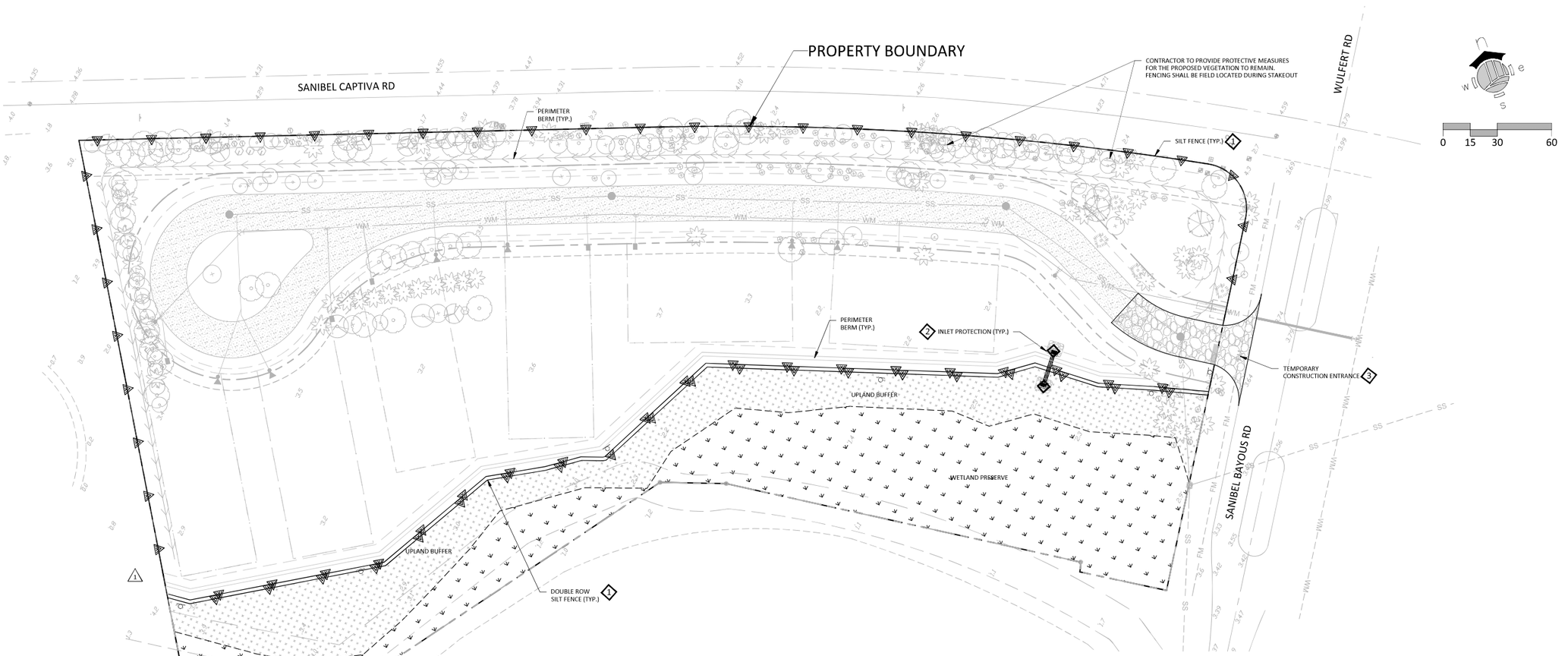
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| FILE NO. | 1419-01 XCM.dwg |
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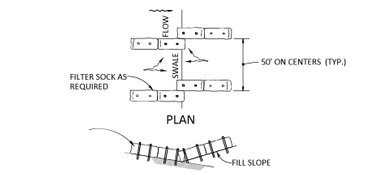
SOILS & EXISTING CONDITIONS MAP

SHEET TITLE

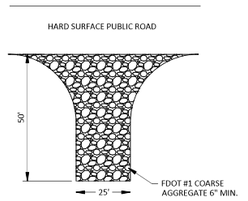
C-04

SHEET NUMBER

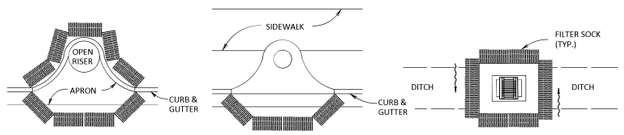


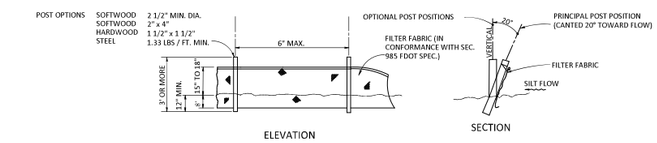

BARRIERS FOR FILL SLOPES
N.T.S.




TEMPORARY GRAVEL CONST. ENTRANCE 3
N.T.S.

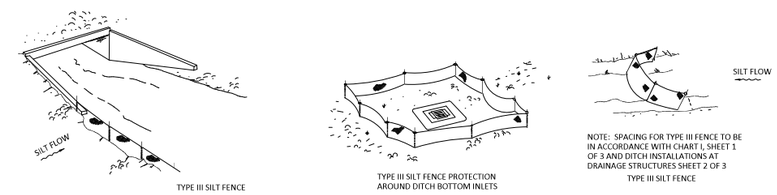



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES 2
N.T.S.




NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF)

TYPE III SILT FENCE
N.T.S.




DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS
N.T.S.

FILTER SOCK OR SILT FENCE 1
PER F.D.O.T. INDEX 102
N.T.S.

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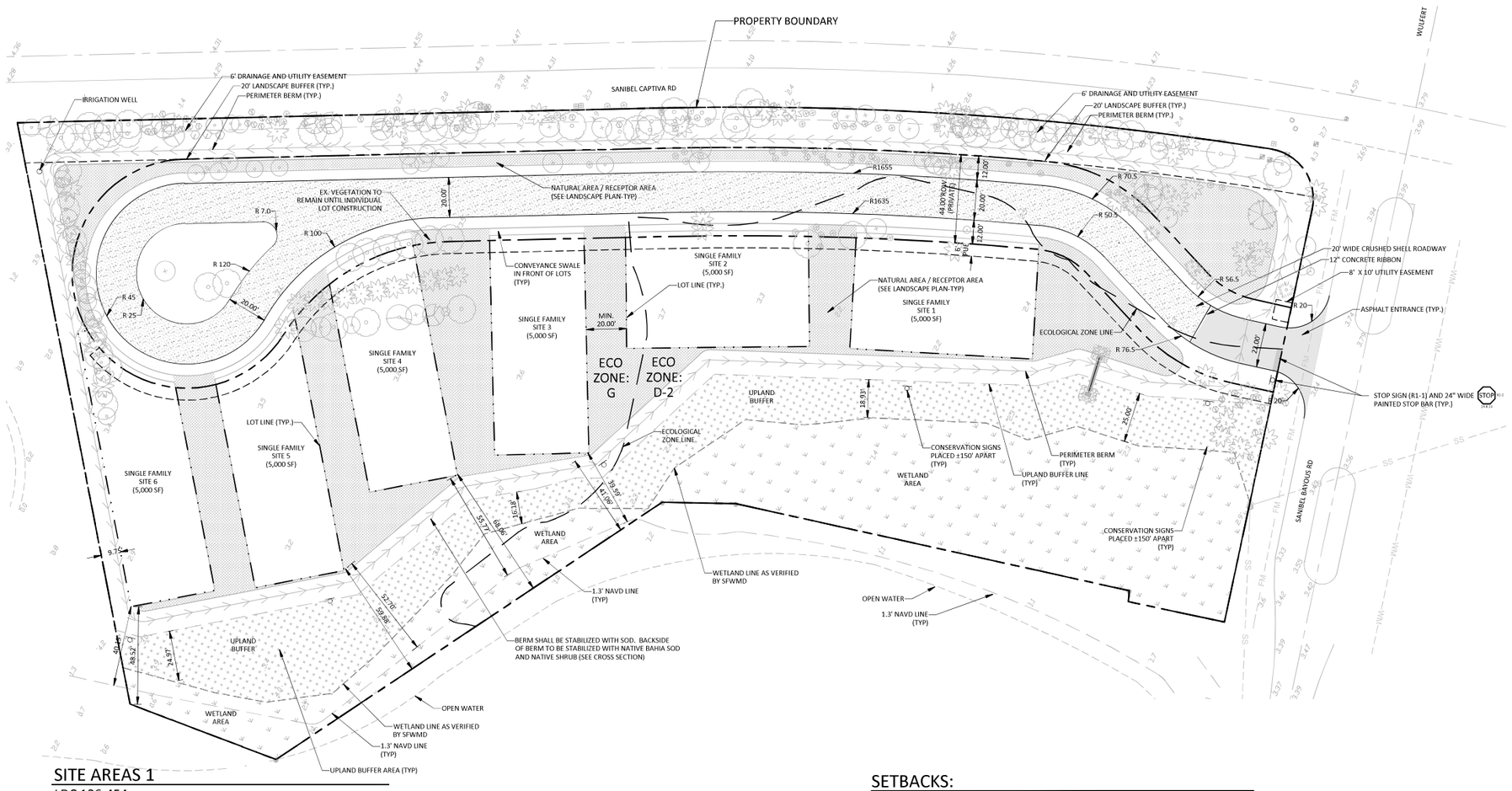
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REVISIONS DESCRIPTION

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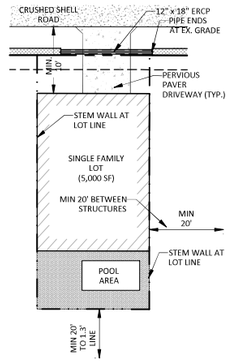
EROSION & SEDIMENT CONTROL PLAN
SHEET TITLE

C-05
SHEET NUMBER

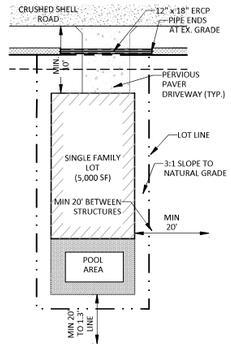



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## TYPICAL UNIT LOT LAYOUT ALT. A (5,000 S.F. LOTS)




## TYPICAL UNIT LOT LAYOUT ALT. B (5,000 S.F. LOTS)

- LOTS MUST ADHERE TO ALL SETBACK REQUIREMENTS
- 100% OF THE LOT CAN BE DEVELOPED
- INDIVIDUAL LOT/BUILDING PERMITS REQUIRED
- ALTERNATES HEREIN FOR REPRESENTATIONAL PURPOSES ONLY

## SITE AREAS 1

LDC 126-454

G - ECO ZONE:

| | | |
|---|---|---|
| TOTAL AREA = | | 95,576 S.F. |
| MAX COVERAGE = | | 35% UP TO 10,000 S.F. AND 30% OVER 10,000 S.F. = 29,172 S.F. |
| MAX VEGETATION REMOVAL AND DEVELOPMENT AREA = | | 40% UP TO 10,000 S.F. AND 35% OVER 10,000 S.F. = 33,952 |
| S.F.IMPERVIOUS AREA | | |
| PROPOSED GRAVEL ROADWAY = | 13,464 S.F. | |
| PROPOSED ASPHALT ROADWAY = | 579 S.F. | |
| PROPOSED BUILDING = | 9,073 S.F. | |
| PROPOSED POOL / DECK = | 2,176 S.F. | |
| TOTAL IMPERVIOUS AREA = | 25,292 S.F. | |
| PROPOSED PERVIOUS BRICK DRIVES = | 2,930 S.F. | |
| IMPERVIOUS COVERAGE CALCULATIONS: | | |
| PROPOSED = | 25,292 S.F. | |

## SITE AREAS 1

LDC 126-394

D-2 - ECO ZONE:

| | | |
|---|---|---|
| TOTAL AREA = | | 50,663 S.F. |
| MAX COVERAGE = | | 25% = 12,665 S.F. |
| MAX VEGETATION REMOVAL AND DEVELOPMENT AREA = | | 30% = 15,198 S.F. |
| IMPERVIOUS AREA | | |
| PROPOSED GRAVEL ROADWAY = | 1,422 S.F. | |
| PROPOSED BUILDING = | 4,400 S.F. | |
| PROPOSED POOL / DECK = | 1,088 S.F. | |
| TOTAL IMPERVIOUS AREA = | 6,910 S.F. | |
| PROPOSED PERVIOUS BRICK DRIVES = | 1,074 S.F. | |
| IMPERVIOUS COVERAGE CALCULATIONS: | | |
| PROPOSED = | 6,910 S.F. | |

## ECOLOGICAL ZONES:

G = ±2.19 ACRES (66%) OF SITE
D-2 = ±1.16 ACRES (34%) OF SITE

## SIGNING AND PAVEMENT MARKING NOTES:

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION), "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)," AND THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
2. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.
3. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).
4. CONTRACTOR SHALL SET ROADWAY GROUND MOUNT SIGNS AT PROPER DEFLECTION ANGLE TO THE ROADWAY IN ACCORDANCE WITH FDOT INDEX NUMBER 17302.
5. SEE FDOT INDEX NUMBERS 17346 AND 17352 FOR ADDITIONAL DETAILS.




STOP SIGN

(R1-1) 24"x 24"




NOTE: SIGNS SHALL BE A MINIMUM 5'x5', COLOR AND DESIGN MAY BE ADJUSTED

## SIGNS

N.T.S.

## SETBACKS:

| G-ECOZONE | MIN. REQUIRED |
|---|---|
| FRONT (SANIBEL CAPTIVA RD-CENTERLINE) | 75' |
| FRONT (PRIVATE ROAD) | 10' |
| SIDE (FROM STRUCTURES-NOT INTERNAL ON LOTS) | 10' |
| OPEN WATER OR 1.3' NAVD | 20' |
| PERIMETER | 10' |

| D-2-ECOZONE | MIN. REQUIRED |
|---|---|
| FRONT (SANIBEL CAPTIVA RD-CENTERLINE) | 75' |
| FRONT (PRIVATE ROAD) | 10' |
| SIDE (FROM STRUCTURES-NOT INTERNAL ON LOTS) | 10' |
| OPEN WATER OR 1.3' NAVD | 20' |
| PERIMETER | 10' |

## TOTAL SITE DATA TABLE:

ON-SITE

| LAND USE TABLE: | EXISTING | PERCENT % | PROPOSED | PERCENT % |
|---|---|---|---|---|
| BUILDING | 0.02 AC. | 0.3% | 0.55 AC. | 16% |
| PAVEMENT (ASPHALT) | 0.004 AC. | 0% | 0.02 AC. | 1% |
| PERVIOUS PAVERS | 0.00 AC. | 0% | 0.11 AC. | 4% |
| GRAVEL | 0.00 AC. | 0% | 0.34 AC. | 10% |
| OPEN SPACE | 2.81 AC. | 84% | 0.90 AC. | 27% |
| DRY DETENTION | 0.00 AC. | 0% | 0.55 AC. | 16% |
| WETLAND | 0.53 AC. | 16% | 0.54 AC. | 16% |
| UPLAND BUFFER | 0.00 AC. | 0% | 0.35 AC. | 10% |
| TOTAL | 3.36 AC. | 100% | 3.36 AC. | 100% |

AREA WITHIN PERIMETER BERM FOR WATER MANAGEMENT CALCULATIONS = 89,733 S.F. (2.06 AC.)

OFF-SITE IMPROVEMENTS

| | PROPOSED | PERCENT % |
|---|---|---|
| PAVEMENT | 0.01 AC. | 100% |
| TOTAL | 0.01 AC. | 100% |

## DEVELOPMENT REGULATIONS:

45' HEIGHT LIMITATION IN BOTH THE G AND D-2 ECOLOGICAL ZONES

## MAX LOT COVERAGE:

| | ALT A | ALT B |
|---|---|---|
| BUILDING | 3,000 S.F. | 2,200 S.F. |
| POOL AREA | 1,000 S.F. | 1,000 S.F. |
| PERVIOUS PAVERS (DRIVE) | 800 S.F. | 800 S.F. |
| PERVIOUS AREA | 200 S.F. | 1,000 S.F. |
| | 5,000 S.F. TOTAL | 5,000 S.F. TOTAL |

DEVELOPER MAY PROVIDE ANY COMBINATION OF SIZES AND FINAL LOT LAYOUT SUBJECT TO DEVELOPMENT REVIEW AND PERMITTING

## COMMON AREA MAINTENANCE:

IT IS THE INTENT OF THE OWNER, Buckingham 225 Development, Inc., OR ITS SUCCESSORS, TO OWN AND MAINTAIN COMMON AREAS ON THE SUBJECT PROPERTY, INCLUDING BUT NOT LIMITED TO STORM WATER FACILITIES, PRIVATE UTILITIES, LANDSCAPING, IRRIGATION, EXOTIC CONTROL, ETC.

## LEGEND

- ASPHALT
- CRUSHED SHELL ROAD
- WETLAND AREA
- UPLAND BUFFER
- DRY DETENTION
- ECOLOGICAL ZONE LINE

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| R2 | PER CITY OF SANIBEL COMMENTS | 6-26-22 |

REVISIONS DESCRIPTION

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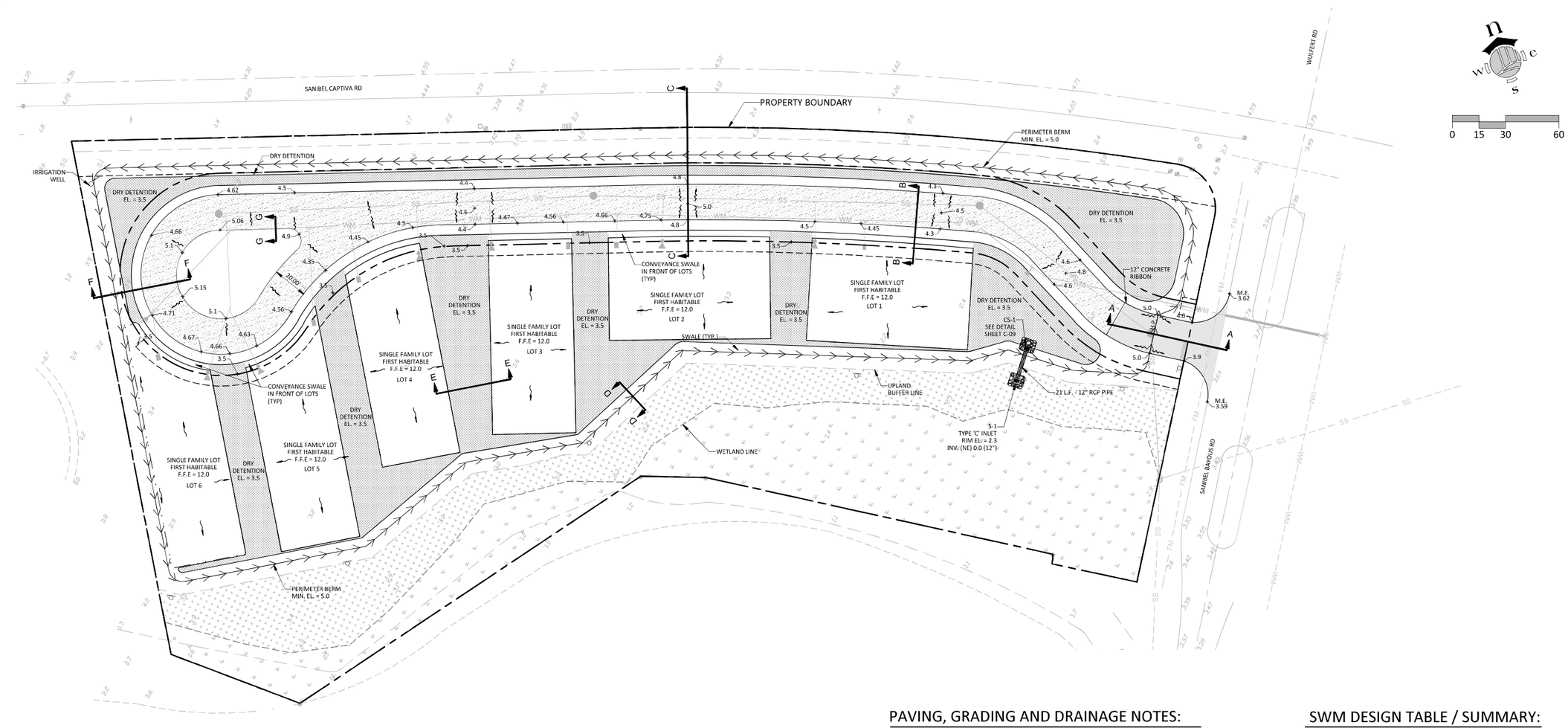
SITE PLAN

SHEET TITLE

C-06

SHEET NUMBER

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## PAVING, GRADING AND DRAINAGE NOTES:

1. LENGTH OF STORM DRAIN PIPES ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE.
2. CONTRACTOR SHALL NOTIFY THE CITY OF SANIBEL DIVISION OF DEVELOPMENT SERVICES A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
3. CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA 72 HOURS (MIN.) PRIOR TO COMMENCING CONSTRUCTION.
4. PLACE 200 S.F. OF SOD AROUND ALL INLETS, HEADWALLS, AND CONTROL STRUCTURES. USE ARGENTINE BAHIA AND CONFORM TO FDOT SECTION 575.
5. PLACE 18" OF SOD CONTINUOUS ALONG EDGES OF PAVEMENT OF ALL ROADS AND/OR CURB, LAYING PARALLEL WITH THE ROAD MAINTAINING 1" BELOW FINISHED PAVEMENT GRADE.
6. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECTED TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCED TO SCHEDULE INSPECTION.
7. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE INSPECTED BY THE OWNER'S ENGINEER PRIOR TO FINAL ACCEPTANCE.
8. ALL SIDEWALKS & SITE FEATURES TO MEET ADA STANDARDS. CONTRACTOR TO VERIFY & TO NOTIFY ENGINEER OF RECORD IF ANY COMPLIANCE ISSUES ARE FOUND; OR ACCEPT RESPONSIBILITY.
9. NO ACCESS POINTS SHALL EXCEED 5% SLOPE.
10. ALL PAVEMENT GRADES ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE SPECIFIED. REFER TO CURB DETAILS FOR BACK OF CURB GRADE.
11. ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR.
12. DRY DETENTION AREAS HATCHED FOR PRESENTATIONAL PURPOSES ONLY. AREA IS AT NATURAL GRADE FOR LESSER VEGETATIVE IMPACT PER CITY OR SANIBEL.

## SWM DESIGN TABLE / SUMMARY:

| | |
|---|---|
| BASIN | = 2.06 ACRES |
| WET SEASON WATER TABLE ELEV. | = 1.3' NAVD |
| CONTROL ELEV. | = 2.5' |
| WATER QUALITY VOLUME REQUIRED: | = 0.20 AC-FT |
| WATER QUALITY VOLUME PROVIDED: | =0.72 AC-FT |
| 5 YEAR, 24 HOUR PEAK STAGE | = 4.19' NAVD |
| 25 YEAR, 72 HOUR PEAK STAGE | = 4.65' NAVD |
| 100 YEAR, 72 HOUR ZERO DISCHARGE | = 5.61' NAVD |
| PEAK DISCHARGE (POST) CONTROLLED BY THE 3" DIA. ORIFICE (MIN. SIZE) THE MAX FLOW IS 0.35 CFS. | |
| MINIMUM ROAD CROWN ELEV. | = 4.5' NAVD |
| MINIMUM BERM ELEV. | = 5.0' NAVD |
| MINIMUM FINISHED FLOOR ELEV. | = 12.0' NAVD (FIRST HABITABLE FLOOR) |

## LEGEND

- ASPHALT
- CRUSHED SHELL
- WETLAND AREA
- X.XX SPOT ELEVATION
- DRY DETENTION
- UPLAND BUFFER

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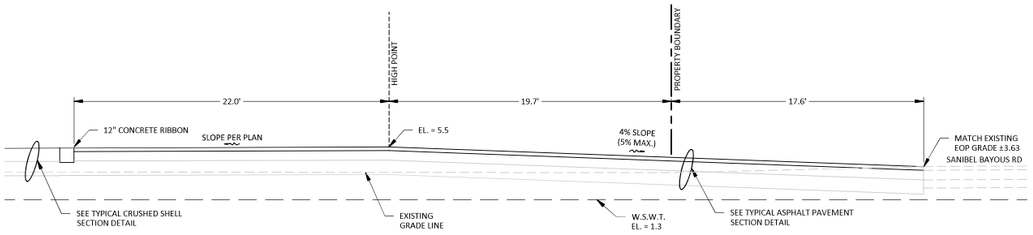
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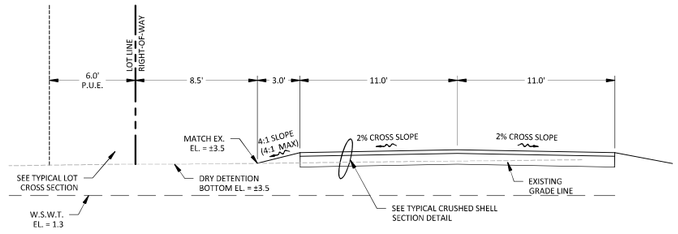
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SHEET TITLE

C-07
SHEET NUMBER

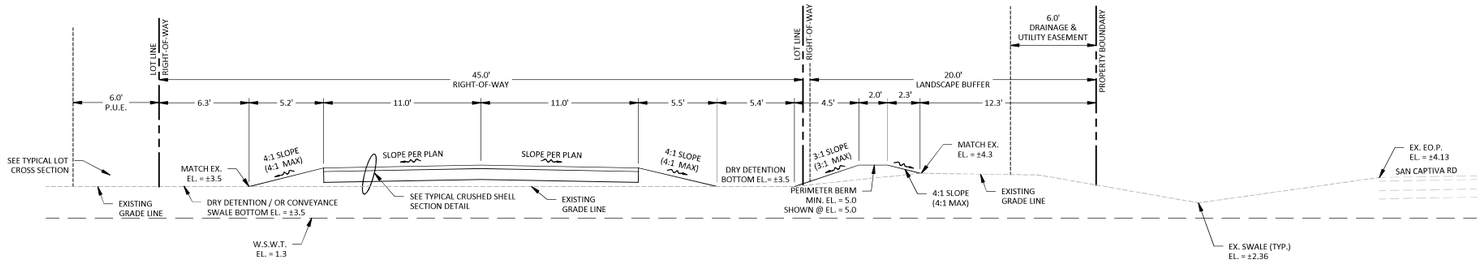
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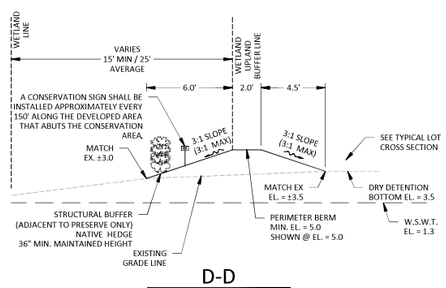

A-A
N.T.S.



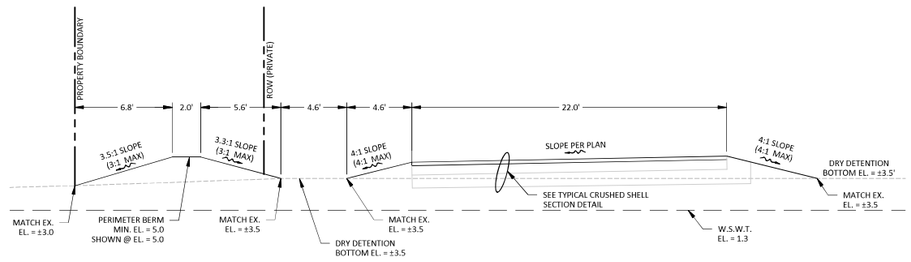

B-B
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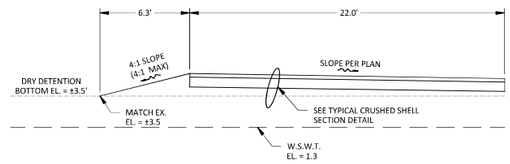

C-C
N.T.S.



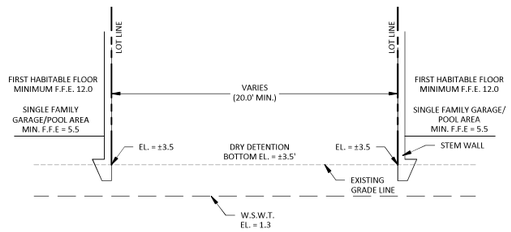

D-D
N.T.S.



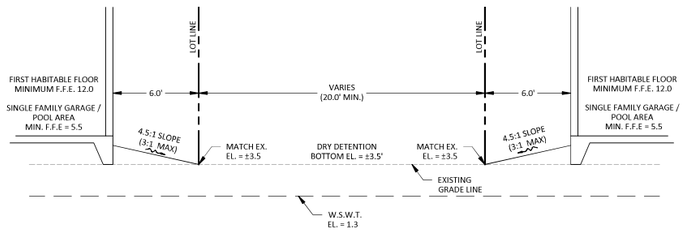

F-F
N.T.S.




G-G
N.T.S.




TYPICAL LOT CROSS SECTION
E-E ALTERNATE A
N.T.S.




TYPICAL LOT CROSS SECTION
E-E ALTERNATE B
N.T.S.

C:\Users\brians\Ensite\Active Projects - Documents\1419 Daniel Wayne Homes\1419-01 Sanibel 3,35 Acres\CAD\Engineering_Working Files\1419-01 PGD.dwg (TYP SECT) brians Jun 29, 2022 - 8:30am

ensite
2401 FIRST STREET, SUITE 201
FORT MYERS, FLORIDA 33901
PH: (239)-226-0024
EB-26544 CA-LC26000374

Buckingham 225 Development, Inc.
5961 Northland Rd. #1
Fort Myers, FL 33905

CLIENT NAME AND ADDRESS

COASTAL CREEK
SANIBEL, FLORIDA

PROJECT NAME AND LOCATION

JONATHAN WADAS
LICENSE
No. 76911
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JONATHAN WADAS, PE
Fl. License No. 76911

| NO. | REVISION | DATE |
|---|---|---|
| R1 | PER SFWMD AND CITY COMMENTS | 2-18-22 |
| R2 | PER CITY OF SANIBEL COMMENTS | 6-26-22 |

REVISIONS DESCRIPTION

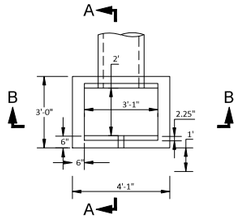
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|---|---|
| DATE: | 9-17-21 |
| PROJECT NO. | 1419-01 |
| FILE NO. | 1419-01 CNA.dwg |
| SCALE: | AS SHOWN |

TYPICAL SECTIONS

SHEET TITLE

C-08

SHEET NUMBER




TOP VIEW




SECTION A
N.T.S.

SECTION B
N.T.S.

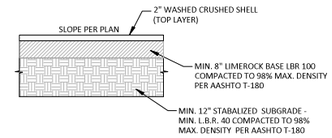
* ALL DIMENSIONS ARE FOR PRECAST. FOR CAST IN PLACE DIMENSION SEE FDOT INDEX 425-052.

## MODIFIED FDOT TYPE "C" INLET

(PER FDOT INDEX 425-052)

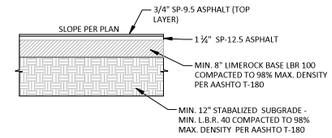
CS-1

N.T.S.




NOTE: STABILIZATION SHALL EXTEND 1 FOOT BEHIND BACK OF CURB AND EDGE PAVEMENT, AS APPLICABLE. LIMEROCK SHALL EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT WHERE NO CURB IS PROPOSED.

ROADWAY
CRUSHED SHELL SECTION
N.T.S.




NOTE: STABILIZATION SHALL EXTEND 1 FOOT BEHIND BACK OF CURB AND EDGE PAVEMENT, AS APPLICABLE. LIMEROCK SHALL EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT WHERE NO CURB IS PROPOSED.

ROADWAY
ASPHALT PAVEMENT SECTION
N.T.S.

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SANIBEL, FLORIDA

PROJECT NAME AND LOCATION

JONATHAN WADAS LICENSE No. 76911 STATE OF FLORIDA PROFESSIONAL ENGINEER

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| DATE: | 9-17-21 |
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| SCALE: | AS SHOWN |

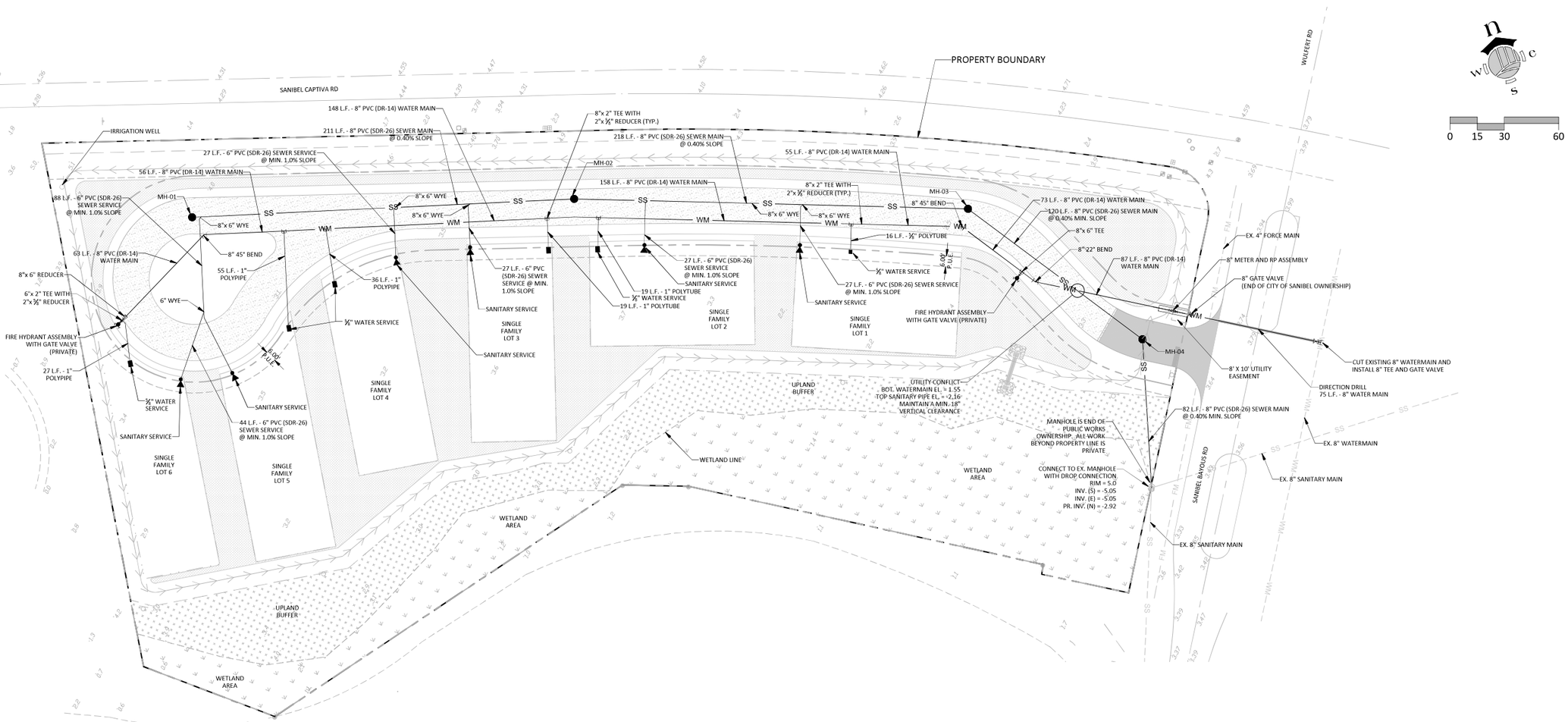
PAVING, GRADING & DRAINAGE DETAILS

SHEET TITLE

C-09

SHEET NUMBER

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## STRUCTURE SCHEDULE:

| | |
|---|---|
| MH-01<br>MANHOLE<br>RIM ELEV. 4.84<br>INV. OUT: (E) -0.10 (8") | MH-03<br>MANHOLE<br>RIM ELEV. 4.45<br>INV. IN: (E) -1.91 (8")<br>INV. OUT: (E) -2.01 (8") |
| MH-02<br>MANHOLE<br>RIM ELEV. 4.7<br>INV. IN: (W) -0.94 (8")<br>INV. OUT: (E) -1.04 (8") | MH-04<br>MANHOLE<br>RIM ELEV. 5.0<br>INV. IN: (W) -2.49 (8")<br>INV. OUT: (E) -2.59 (8") |

## NOTES:

1. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS AS PROVIDED BY THE MERIDIAN GROUP OF SOUTH FLORIDA, INC. AND LEE COUNTY AS-BUILT RECORD DRAWINGS. CONTRACTOR WILL FIELD VERIFY ALL LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. A SEPARATE RIGHT OF WAY USE PERMIT WILL BE REQUIRED FOR ALL UTILITY WORK WITHIN THE PUBLIC RIGHT OF WAY. SPECIFIC STIPULATIONS OR CONDITIONS WILL BE IMPOSED AT THE TIME OF PERMIT APPLICATION.

## LEGEND

- ASPHALT
- CRUSHED SHELL
- WETLAND AREA
- UPLAND BUFFER
- DRY DETENTION

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| | |
|---|---|
| DATE: | 9-17-21 |
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| FILE NO. | 1419-01 CNA.dwg |
| SCALE: | AS SHOWN |

UTILITY PLAN

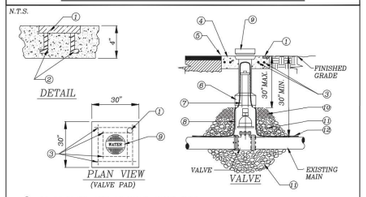
SHEET TITLE

C-10

SHEET NUMBER

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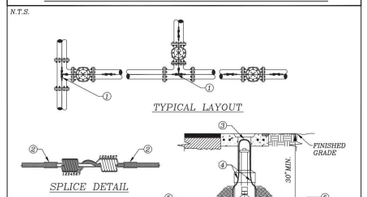
## STANDARD DETAIL NO. 6.2
~~LEE COUNTY UTILITIES~~
### VALVE INSTALLATION




① BRASS PLATE: SIZE OF VALVE, VALVE TYPE
No. OF TURNS & DIRECTION TO OPEN
VALVE M.F.G. & YEAR INSTALL
SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
② ANCHOR
③ EIGHT (8) #4 HAIRS OVERLAP EACH CORNER BY 4"
④ 30"SQ X 4" THK.CONC.PAD SURROUNDING BOX, MIN. 3,000 P.S.I. POURED IN PLACE
⑤ SET TOP OF BOX FLUSH WITH FINISHED GRADE
⑥ HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW TYPE, 5 1/4" DIAMETER SHAFT THAT IS LCU APPROVED
⑦ EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE THAN 30" BELOW FINISH GRADE
⑧ RISER NOT TO BEAR ON VALVE OR PIPE
⑨ CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE OR "FIRE"
⑩ COMPACTED SUITABLE EARTH BACKFILL
⑪ 3/4" GRANULAR MATERIAL #57 STONE
⑫ 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

## STANDARD DETAIL NO. 6.3
~~LEE COUNTY UTILITIES~~
### LOCATING WIRE FOR PRESSURE MAINS

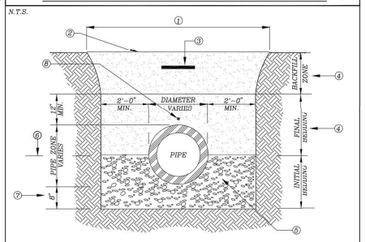



NOTES
1 WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES. THE PVC RISER PIPE SHALL BE NOTCHED AND THE WIRE ATTACHED TO THE RISER PIPE TO ALLOW FOR THE WIRE TO BE INSIDE THE CAST IRON VALVE BOX WITHOUT SHEARING THE WIRE.
2 LOCATING WIRE SHALL BE LAID ON TOP OF THE MAIN AND SHALL BE TAPED TO IT AT 10' INTERVALS AND TAPED AT ALL FITTINGS. TAPE SHALL BE 10 MIL POLYETHYLENE.
3 CONTRACTOR SHALL CONDUCT A CONTINUITY TEST ON ALL LOCATING WIRE SPLICES PRIOR TO SCHEDULING THE OFFICIAL FINAL INSPECTION WITH LCU.
4 ALL SPLICES SHALL UTILIZE A DIRECT BURY WATERPROOF SPLICE KIT. (SEE APPROVED MATERIAL LIST)

① SPLICE RUN TOGETHER, KEEP CLEAR OF FITTING, TYPICAL
② COVER SPLICE WITH 2 WRAPS OF 10 MIL POLYETHYLENE TAPE
③ 6" LOOP OF BARE WIRE, 6" MAX. DEPTH TO TOP OF BARE WIRE
④ 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
⑤ SPLICE (SEE DETAIL THIS SHEET)

REV: 12/10/2015

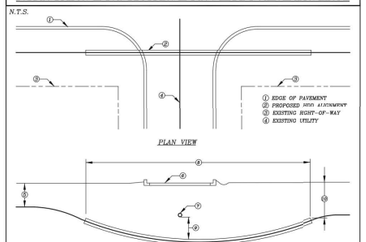
## STANDARD DETAIL NO. 6.5
~~LEE COUNTY UTILITIES~~
### TRENCH CROSS SECTION




① EXCAVATED TRENCH
② FINISHED GRADE
③ MARKING TAPE 12" DEPTH MAX.
④ MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
⑤ #57 STONE LOCATED UNDER PIPE OR EXISTING UNDISTURBED SUITABLE MATERIAL
⑥ SPRING LINE
⑦ STANDARD 6" MIN TRENCH UNDERCUT AND BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
ADDITIONAL UNDERCUT AND CRUSHED ROCK BEDDING FOUNDATION WHEN DIRECTED BY L.C.U. THE CONTRACTOR IS TO REMOVE UNSTABLE MATERIAL FROM THE TRENCH FOUNDATION. THEN INSTALL STABILIZED CRUSHED ROCK BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
⑧ LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES.

REV: 12/10/2015

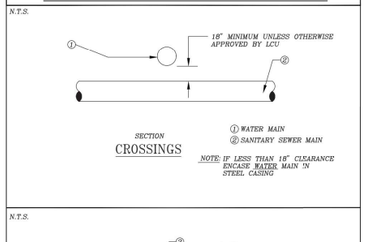
## STANDARD DETAIL NO. 6.7
~~LEE COUNTY UTILITIES~~
### HORIZONTAL DIRECTIONAL DRILL UNDER A ROADWAY




HDD INSTALLATION NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LEE COUNTY UTILITIES DESIGN MANUAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE CONTAINED ON SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
5. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
6. NO CASING SPACERS REQUIRED.
7. WHEN CASING IS REQUIRED INSTALL 1" HDPE PIPE ATTACHED TO THE CARRIER PIPE WITH 12 GAUGE DOUBLE INSULATED COPPER WIRE INSIDE THE HDPE PIPE.

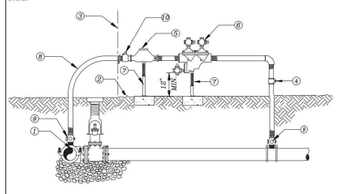
REV: 12/10/2015

## STANDARD DETAIL NO. 6.8
~~LEE COUNTY UTILITIES~~
### WATER AND SEWER CROSSING DETAIL




REV: 12/10/2015

## STANDARD DETAIL NO. 6.15
~~LEE COUNTY UTILITIES~~
### TEMPORARY CONSTRUCTION JUMPER WITH METER

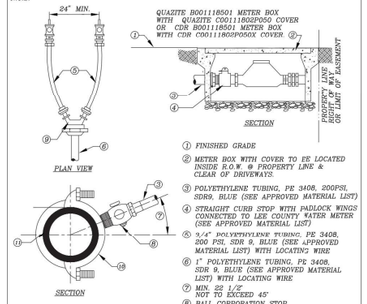



NOTES:
CONTRACTOR/CUSTOMER SHALL APPLY AT LEE COUNTY UTILITIES FOR TEMPORARY WATER SERVICE FIVE DAYS PRIOR TO REQUIRED SERVICE DATE. THE METER ONLY WILL BE FURNISHED BY LEE COUNTY UTILITIES. ALL FITTINGS, PIPING, VALVES AND MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER. THE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY LEE COUNTY UTILITIES APPROVED CERTIFIED BACKFLOW PREVENTION TECHNICIAN (FURNISHED BY CONTRACTOR/CUSTOMER) AT TIME OF METER INSTALLATION. CONTRACTOR/CUSTOMER SHALL PROTECT THE ASSEMBLY FROM DAMAGE. TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED AND DEPARTMENT OF HEALTH CERTIFICATION AND CLEARANCE FOR SERVICE FORM HAS BEEN RECEIVED BY LEE COUNTY UTILITIES. WHEN THE NEW SYSTEM IS ACCEPTED, THE TEMPORARY CONSTRUCTION JUMPER METER ASSEMBLY MUST BE COMPLETELY REMOVED DOWN TO CORP STOPS.

① TAPPING SLEEVE AND VALVE TO BE FULLY RESTRAINED ON EXISTING MAIN (SEE LCU STANDARD DETAIL)
② GRADE
③ PROPERTY LINE AND/OR RIGHT OF WAY LINE
④ BRONZE BALL VALVE
⑤ METER FURNISHED BY LEE COUNTY UTILITIES
⑥ REDUCED PRESSURE BACKFLOW PRETENTER
⑦ PIPE STAND. (SEE LCU STANDARD DETAIL)
⑧ 2" DIA. HDPE IR9
⑨ 2" DIA. CORPORATION STOP
⑩ 2" DIA. CURB STOP

REV: 12/10/2015

## STANDARD DETAIL NO. 6.16
~~LEE COUNTY UTILITIES~~
### WATER SERVICE INSTALLATION 5/8" THROUGH 1"

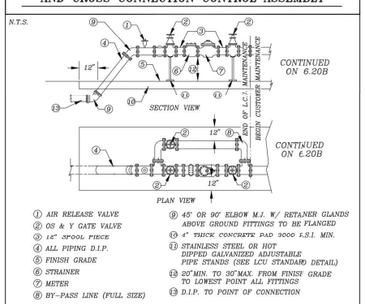



NOTES:
1. TUBING UNDER ROADWAY SHALL BE ENCASED IN 4" P.V.C. PIPE SCHEDULE 40 MINIMUM AND EXTEND 4 FEET BEYOND THE EDGES OF PAVEMENT OR BACK OF CURB.

① FINISHED GRADE
② METER BOX WITH COVER TO BE LOCATED INSIDE R.O.W. @ PROPERTY LINE & CLEAR OF DRIVEWAYS.
③ POLYETHYLENE TUBING, PE 3408, 200PSI, SDR9, BLUE (SEE APPROVED MATERIAL LIST)
④ STRAIGHT CURB STOP WITH PADLOCK WINGS CONNECTED TO LEE COUNTY WATER METER (SEE APPROVED MATERIAL LIST)
⑤ ¾"x¾" POLYETHYLENE TUBING, PE 3408, 200 PSI, SDR 9, BLUE (SEE APPROVED MATERIAL LIST) WITH LOCATING WIRE
⑥ 1" POLYETHYLENE TUBING, PE 3408, SDR 9, BLUE (SEE APPROVED MATERIAL LIST) WITH LOCATING WIRE
⑦ MIN. 22 1/2" NOT TO EXCEED 45°
⑧ BALL CORPORATION STOP (SEE APPROVED MATERIAL LIST)
⑨ BRASS "Y" OR "T" CONNECT (SEE APPROVED MATERIAL LIST)
⑩ DOUBLE STRAP SERVICE SADDLE PROVIDE SPRING LOADED TAPPING SADDLE WHEN TAPPING HDPE (SEE APPROVED MATERIAL LIST)
⑪ WATER MAIN

REV: 12/10/2015

## STANDARD DETAIL NO. 6.20A
~~LEE COUNTY UTILITIES~~
### 3" OR LARGER METER AND CROSS CONNECTION CONTROL ASSEMBLY

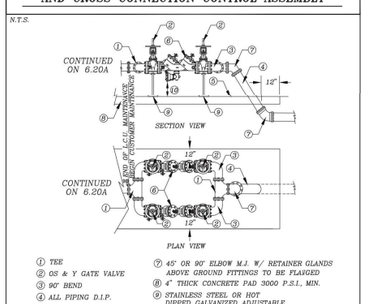



① AIR RELEASE VALVE
② OS & Y GATE VALVE
③ 12" SPOOL PIECE
④ ALL PIPING D.I.P.
⑤ FINISH GRADE
⑥ STRAINER
⑦ METER
⑧ BY-PASS LINE (FULL SIZE)
⑨ 45° OR 90° ELBOW M.J. W/ RETAINER GLANDS ABOVE GROUND FITTINGS TO BE FLANGED
⑩ 4" THICK CONCRETE PAD 3000 S.S.I. MIN.
⑪ STAINLESS STEEL OR HOT DIPPED GALVANIZED ADJUSTABLE PIPE STANDS (SEE LCU STANDARD DETAIL)
⑫ 20" MIN. TO 30" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS
⑬ D.I.P. TO POINT OF CONNECTION

NOTES:
1. USE COMPOUND METER IF FOR POTABLE WATER ONLY
2. USE FIRELINE METER IF FOR POTABLE AND FIRE SUPPRESSION
3. PAINT IN ACCORDANCE WITH LCU STANDARDS
4. ALL PIPING BETWEEN THE BELOW GROUND 45 BENDS AND THROUGH THE ASSEMBLY SHALL BE DIP, PRESSURE CLASS 350 ABOVE GROUND DIP SHALL BE FLANGED
5. ALL PLANTING SHALL BE A MINIMUM OF 1.5' FROM THE EDGE OF SLAB AND SHALL PROVIDE A 3' ACCESS OPENING

REV: 12/10/2015

## STANDARD DETAIL NO. 6.20B
~~LEE COUNTY UTILITIES~~
### 3" OR LARGER METER AND CROSS CONNECTION CONTROL ASSEMBLY

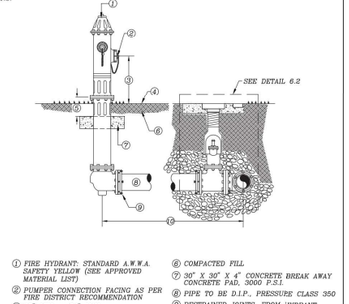



① TEE
② OS & Y GATE VALVE
③ 90° BEND
④ ALL PIPING D.I.P.
⑤ FINISH GRADE
⑥ LCU APPROVED DOUBLE CHECK VALVE ASSEMBLY
⑦ 45° OR 90° ELBOW M.J. W/ RETAINER GLANDS ABOVE GROUND FITTINGS TO BE FLAGGED
⑧ 4" THICK CONCRETE PAD 3000 P.S.I., MIN.
⑨ STAINLESS STEEL OR HOT DIPPED GALVANIZED ADJUSTABLE PIPE STANDS (SEE LCU STANDARD DETAIL)
⑩ 12" MIN. TO 24" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS

NOTES: 1. IF UNINTERRUPTED SERVICE IS NOT REQUIRED, A SINGLE BACKFLOW PREVENTION DEVICE MAY BE INSTALLED, AND TEES AND BENDS ELIMINATED.
2. ALL PLANTING SHALL BE A MINIMUM OF 1.5' FROM THE EDGE OF SLAB AND SHALL PROVIDE A 3' ACCESS OPENING.

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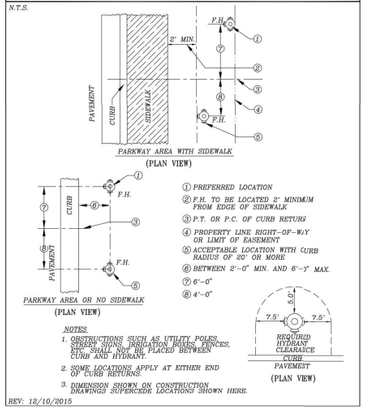
## STANDARD DETAIL NO. 6.24
~~LEE COUNTY UTILITIES~~
### FIRE HYDRANT ASSEMBLY




① FIRE HYDRANT: STANDARD A.W.W.A. SAFETY YELLOW (SEE APPROVED MATERIAL LIST)
② PUMPER CONNECTION FACING AS PER FIRE DISTRICT RECOMMENDATION
③ 18" MIN. – 24" MAX.
④ FINISHED GRADE
⑤ 6" MIN. CLEARANCE
⑥ COMPACTED FILL
⑦ 30" X 30" X 4" CONCRETE BREAK AWAY CONCRETE PAD, 3000 P.S.I.
⑧ PIPE TO BE D.I.P., PRESSURE CLASS 350
⑨ RESTRAINED JOINTS, FROM HYDRANT TO WATER MAIN
⑩ VARIABLE DISTANCE, IF GREATER THAN 100' A VALVE SHALL BE INSTALLED AT HYDRANT BASE

REV: 12/10/2015

## STANDARD DETAIL NO. 6.25
~~LEE COUNTY UTILITIES~~
### FIRE HYDRANT LOCATIONS/CLEARANCE

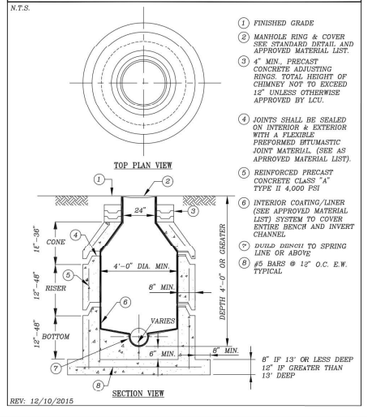



① PREFERRED LOCATION
② P.H. TO BE LOCATED 2' MINIMUM FROM EDGE OF SIDEWALK
③ P.T. OR P.C. OF CURB RETURN
④ PROPERTY LINE RIGHT-OF-W.Y OR LIMIT OF EASEMENT
⑤ ACCEPTABLE LOCATION WITH CURB RADIUS OF 20' OR MORE
⑥ BETWEEN 2'-0" MIN. AND 6'-7" MAX.
⑦ 6'-0"
⑧ 4'-0"

NOTES.
1. OBSTRUCTIONS SUCH AS UTILITY POLES, SIGNS, TREES, VEGETATION, WALLS, FENCES, ETC., SHALL NOT BE PLACED BETWEEN CURB AND HYDRANT.
2. SOME LOCATIONS APPLY AT EITHER END OF CURB RETURNS.
3. DIMENSION SHOWN ON CONSTRUCTION DRAWINGS SUPERCEDES LOCATIONS SHOWN HERE.

REV: 12/10/2015

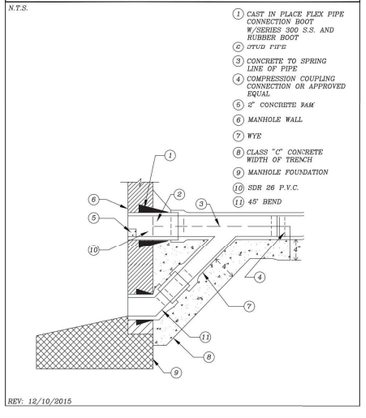
## STANDARD DETAIL NO. 6.33
~~LEE COUNTY UTILITIES~~
### PRECAST MANHOLE-CONCENTRIC




① FINISHED GRADE
② MANHOLE RING & COVER SEE STANDARD DETAIL AND APPROVED MATERIAL LIST.
③ 4" MIN. PRECAST CONCRETE ADJUSTING RINGS. TOTAL HEIGHT OF CHIMNEY NOT TO EXCEED 12" UNLESS OTHERWISE APPROVED BY LCU.
④ JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. (SEE AS APPROVED MATERIAL LIST).
⑤ REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
⑥ INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
⑦ DOUBLE BENDS TO SPRING LINE OR ABOVE
⑧ #5 BARS @ 12" O.C. E.W. TYPICAL

REV: 12/10/2015

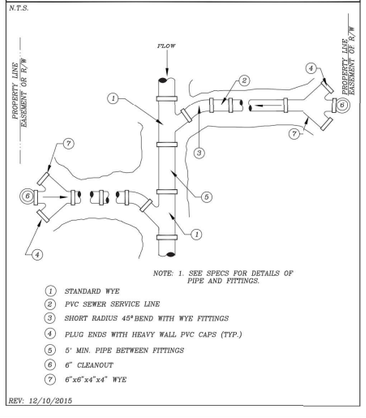
## STANDARD DETAIL NO. 6.36
~~LEE COUNTY UTILITIES~~
### OPTIONAL MANHOLE DROP 2' TO 4'




① CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. AND RUBBER BOOT
② CPVC PIPE
③ CONCRETE TO SPRING LINE OF PIPE
④ COMPRESSION COUPLING CONNECTION OR APPROVED EQUAL
⑤ 6" CONCRETE 36M
⑥ MANHOLE WALL
⑦ WYE
⑧ CLASS "C" CONCRETE WIDTH OF TRENCH
⑨ MANHOLE FOUNDATION
⑩ SDR 26 P.V.C.
⑪ 45° BEND

REV: 12/10/2015

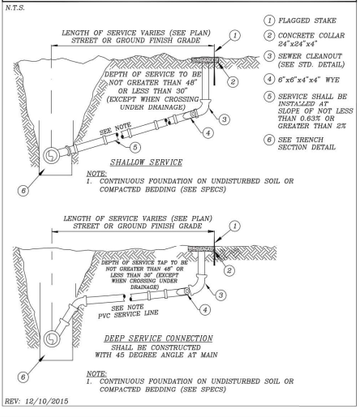
## STANDARD DETAIL NO. 6.38
~~LEE COUNTY UTILITIES~~
### STANDARD SEWER SERVICE LATERALS




① STANDARD WYE
② PVC SEWER SERVICE LINE
③ SHORT RADIUS 45°BEND WITH WYE FITTINGS
④ PLUG ENDS WITH HEAVY WALL PVC CAPS (TYP.)
⑤ 5' MIN. PIPE BETWEEN FITTINGS
⑥ 6" CLEANOUT
⑦ 6"x6"x4"x4" WYE

REV: 12/10/2015

## STANDARD DETAIL NO. 6.39
~~LEE COUNTY UTILITIES~~
### STANDARD SEWER SERVICE LATERAL




① FLAGGED STAKE
② CONCRETE COLLAR 24"x24"x4"
③ SEWER CLEANOUT (SEE STD. DETAIL)
④ 6"x6"x4"x4" WYE
⑤ SERVICE SHALL BE INSTALLED AT SLOPE OF NOT LESS THAN 0.63% OR GREATER THAN 2%
⑥ SEE TRENCH SECTION DETAIL

REV: 12/10/2015

C:\Users\ToddC\Ensite\Active Projects - Documents\1419 Daniel Wayne Homes\1419-01 Sanibel 3,35 Acres\CAD\Engineering_Working Files\1419-01 UTIL.dwg (DET) ToddC Jun 28, 2022 - 3:01pm


ensite
2401 FIRST STREET, SUITE 201
FORT MYERS, FLORIDA 33901
PH: (239)-226-0024
EB-26544 CA-LC26000374


CLIENT NAME AND ADDRESS
Buckingham 225 Development, Inc.
5961 Northland Rd. #1
Fort Myers, FL 33905

PROJECT NAME AND LOCATION
COASTAL CREEK
SANIBEL, FLORIDA

JONATHAN WADAS
No. 76911
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JONATHAN WADAS, PE
FL License No. 76911

REVISIONS DESCRIPTION
DATE
REVISION
NO.

| | |
|---|---|
| DATE: | 9-17-21 |
| PROJECT NO. | 1419-01 |
| FILE NO. | 1419-01 CNA.dwg |
| SCALE: | AS SHOWN |

UTILITY DETAILS
SHEET TITLE

C-11
SHEET NUMBER

# COASTAL CREEK

# STORMWATER MANAGEMENT REPORT

Prepared By:

**EnSite, Inc.**
2401 First Street, Suite 201
Fort Myers, Florida 33901
Phone (239) 226-0024
Fax (239) 226-0094

November 2021

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

Jason Tomassetti, P.E.
Florida License No. 66263

# TABLE OF CONTENTS


| SECTION | DESCRIPTION |
|---|---|
| **ONE** | REPORT |
| **APPENDIX A** | ICPR DATA |

# SECTION ONE

# REPORT

## PROJECT LOCATION

The project area is located in the City of Sanibel, Florida. Within Section 13, Township T46S, Range 21E. The site is +/-3.36 acres situated on the southwest corner of Sanibel Captiva Road and Sanibel Bayous Road.

## EXISTING CONDITIONS

As previously mentioned, the project site is 3.36 acres in size. The eastern portion of the site as identified as STRAP #13-46-21-T2-00002.2000 was a commercial sales center and the building exists today (northeast corner). The western portion of property identified as STRAP #13-46-21-T2-00002.4000 was a waste treatment facility. This facility was removed and the land was reclaimed in 2010. It is currently vacant. The topography of the site ranges from +/-5.0 to +/-1.3 NAVD. There is an existing wetland along the southern property line that has been verified and determination has been made and approved.

The site currently sheet flows to the south into the south canal/waterway and wetland.

## PROPOSED CONDITIONS

The site is 3.36 acres in size and will consist of 6 single-family residential units/lots, associated infrastructure and master surface water management system. The proposed stormwater system is composed of a dry detention system utilized to treat the required water quality volume and to provide the attenuation of the 25 yr-72 hr storm event prior to discharging into the existing wetland on the south side of the property.

The owner/developer of the property will be the maintenance entity of the master stormwater system:
Buckingham 225 Development, Inc.
5961 Northland Rd, Unit 1
Fort Myers, FL 33905

## LAND USE

Existing

| | |
|---|---|
| Building: | 0.02 acres |
| Impervious: | 0.00 acres |
| Pervious: | 2.80 acres |
| Wetlands: | 0.54 acres |
| SWMS | 0.00 acres |
| TOTAL: | 3.36 acres |

Proposed

| | |
|---|---|
| Building: | 0.35 acres |
| Impervious: | 0.58 acres |
| Pervious: | 1.50 acres |
| Wetlands/Preserve: | 0.54 acres |
| SWMS: | 0.39 acres |
| TOTAL: | 3.36 acres |

## SOIL STORAGE & SCS CURVE NUMBER

Average Site Grade = 3'
Depth to Water Table (Avg. grade – WSWT) = 3' – 1.3' = 2.5'

| Depth to Water Table | Cumulative Water Storage | Compacted Water Storage |
|---|---|---|
| 1 ft | 0.60 in. | 0.45 in. |
| 2 ft | 2.50 in. | 1.88 in. |
| 3 ft | 6.60 in. | 4.95 in. |
| 4 ft | 10.9 in. | 8.18 in. |

Depth = 3.42 in.

(% pervious) = 53%
Site Soil Storage = 1.81 in
CN = 1000 / (1.81+10) = 85

## TIME OF CONCENTRATION (Tc)

Tc = 0.0078 (L^0.77/S^0.385)
Tc = 10 min

## WATER QUALITY VOLUME

1. First 1" x drainage area:

   1" x 2.82 acres x 1'/12" = 0.24 ac-ft.

2. 2.5" x % impervious:

   a. Drainage area for water quality:
      = total drainage area – (water surface + roof)
      = 2.82 acres – (0.00 acres + 0.35 acres) = 2.47 acres

   b. Impervious area for water quality:
      = road/parking/sidewalk
      = 0.58 acres

   c. Percentage impervious for water quality (b/a):
      = 0.58 / 2.47 acres = 0.23%

   d. Treatment Depth:
      = 2.5" x 0.23 = 0.58"

   e. Treatment Volume:
      = 0.58" x (2.47 acres – 0.00 acres) x 1' / 12" = 0.12 ac-ft.

## WATER QUALITY VOLUME (CONT.)

3. Dry detention volume shall be provided equal to 75% of the above amounts computed for wet detention. Wet detention shall provide the greater of the first inch of runoff from the developed site or the total runoff of 2.5 times the percent impervious, whichever is greater.

4. Required Treatment Volume = 0.75 x 0.24 ac-ft. = 0.18 ac-ft.

5. Required Treatment Volume plus 50% = 0.27 ac-ft.

6. Treatment Elevation

   a. Depth = 0.27 / 0.39 acres = 0.70 ft
   b. Treatment Elevation = 0.70 + 1.3 = 2.0 ft

7. Treatment Volume Provided

   a. Depth = CS WQ Weir Elev. – Circular Orifice. = 4.9’ – 1.3’ = 3.6’
   b. Treatment Volume Provided = 3.6’ x 0.39 ac = 1.4 ac-ft.

## DESIGN SUMMARY

| | |
|---|---|
| Wet Season Water Table: | 1.3’ |
| Water Quality Volume Required: | 0.27 ac-ft. |
| Water Quality Volume Provided: | 1.40 ac-ft. |

5 year, 24 hour peak stage = 3.86’
25 year, 72 hour peak stage = 4.79’
100 year, 72 hour zero discharge stage = 6.53’

Peak Discharge (Post) controlled by the 3” dia orifice (min. size). The max flow is 0.43 cfs.

# APPENDIX A

Simple Basin Runoff Summary [Scenario1]

| Basin Name | Sim Name | Max Flow [cfs] | Time to Max Flow [hrs] | Total Rainfall [in] | Total Runoff [in] | Area [ac] | Equivalent Curve Number | % Imperv | % DCIA |
|---|---|---|---|---|---|---|---|---|---|
| Site | 025Y-72H | 13.12 | 60.0167 | 11.00 | 9.12 | 2.8200 | 85.0 | 0.00 | 0.00 |
| Site | 05Y-24H | 7.59 | 12.2667 | 5.50 | 3.83 | 2.8200 | 85.0 | 0.00 | 0.00 |

Node Max Conditions [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| POND | 025Y-72H | 4.90 | 4.79 | 0.0010 | 13.12 | 0.43 | 37323 |
| POST | 025Y-72H | 0.00 | 1.36 | 0.0010 | 0.43 | 0.43 | 100 |
| WETLAND | 025Y-72H | 0.00 | 1.30 | 0.0000 | 0.43 | 0.00 | 0 |
| POND | 05Y-24H | 4.90 | 3.86 | -0.0010 | 7.59 | 0.37 | 22562 |
| POST | 05Y-24H | 0.00 | 1.36 | 0.0010 | 0.37 | 0.37 | 100 |
| WETLAND | 05Y-24H | 0.00 | 1.30 | 0.0000 | 0.37 | 0.00 | 0 |

Node Max Conditions [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| POND | 100Y-72H (Zero) | 4.90 | 6.53 | 0.0010 | 16.96 | 0.00 | 40598 |

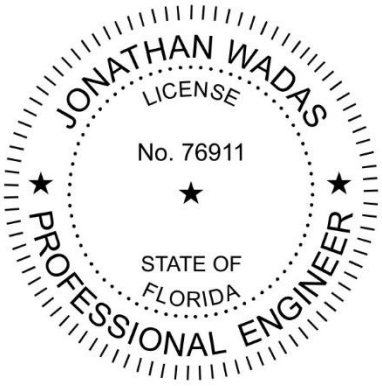
# COASTAL CREEK
# STORMWATER MANAGEMENT REPORT

Prepared For:

**Buckingham 225 Development, Inc.**
5961 Northland Road Unit 1
Fort Myers, FL 33905

Prepared By:

**EnSite, Inc.**
2401 First Street, Suite 201
Fort Myers, Florida 33901
Phone (239) 226-0024
Fax (239) 226-0094
EB 26544
CA LC26000374




This item has been electronically signed and sealed using an SHA-1 authentication code by Jonathan Wadas, P.E. on 6/28/2022.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

## Site Information

### Location

The project site is located in the City of Sanibel, Florida. Within Section 13, Township T46S, Range 21E. The site is +/-3.36 acres situated on the southwest corner of Sanibel Captiva Road and Sanibel Bayous Road.

### Site Conditions

The 3.36-acre project site is currently vacant land. The topography of the site ranges from 1.3 to 5.0 feet, NAVD. There is an existing wetland along the southern property line that has been verified and determination has been made and approved.

The site currently sheet flows to the south into the wetland and south canal/waterway.

### Background

The eastern portion of the site, identified as STRAP #13-46-21-T2-00002.2000, was a commercial sales center and the building exists today (northeast corner). The western portion of property identified as STRAP #13-46-21-T2-00002.4000 was a waste treatment facility. The facility has been removed, and the land was reclaimed in 2010.

## Project Information

The proposed project will consist of 6 single-family residential units/lots, associated utility infrastructure and dry detention stormwater management (SWM) system. The proposed SWM system is composed of a "Natural Area" dry detention system utilized to treat the required water quality volume and to provide the attenuation of the 25-year-72-hour storm event prior to discharging into the existing on-site wetland. The individual lot plans have been designed with two layout options. The SWM system has been designed for Layout Option A which maximizes the impervious coverage on the lot and includes stem walls constructed at the lot line.

### Wet Season Water Table and Control Elevation

The wet season water table (WSWT) is estimated to be 1.3 feet, NAVD for the entire site. The City of Sanibel considers 1.3 feet, NAVD as the wet season water table for the entire island. Additionally, SFWMD design information on control elevations (provided as Exhibit A) states the minimum control elevation along the west coast of the District from Cape Romano to Charlotte County is 2.5 feet, NGVD or 1.3 feet, NAVD.

From Cape Romano to Charlotte County

Minimum control elevation for wet water management areas where salt water inflow cannot be tolerated is 2.5 Feet above the NGVD.

Minimum bottom elevation for dry water management areas is 2.5 Feet above the NGVD.

Minimum control elevation for wet water management areas where occasional salt water inflow can be tolerated is 2.0 Feet above the NGVD.

The proposed control elevation for the SWM system is 2.5 feet, NAVD. The control elevation was raised above the WSWT to provide an outfall with positive discharge to the on-site wetland.

## Stormwater Management System

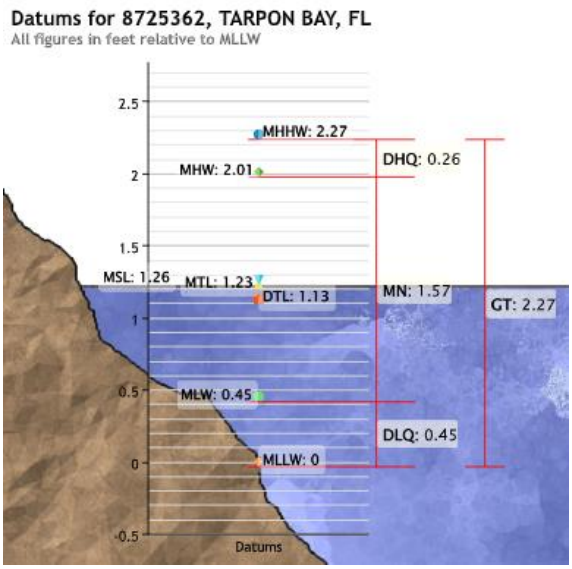
The SWM system consists of dry detention in natural areas between the proposed lots, roadway, and perimeter berm. Per Section 4.3 of the SFWMD Applicant's Handbook Vol. II, natural areas may be used for detention purposes. These areas will not be altered from the current condition in order to meet the City of Sanibel development criteria. The existing elevation is approximately 3.5 feet, NAVD. Discharges from the "Natural Area" dry detention ponds are through a control structure with a three-inch diameter bleeder set at 2.5 feet, NAVD and the top grate elevation set at the 25-year storm event peak stage.

## Design Discharge Rate

The proposed peak design discharge rate is within the allowable limit based on a minimum sized 3-inch diameter bleeder.

## Tailwaters

The project discharges to the on-site wetland on the south side of the project. The wetland discharges to the tidal waters of Clam Bayou on Sanibel Island. Per NOAA Station 8725362, in Tarpon Cove also on Sanibel Island, the mean higher-high water (MHHW) elevation in 2.27 feet, NAVD. The control structure is fitted with a bubble-up inlet at the downstream end of the pipe set at elevations 2.3 feet, NAVD. The tailwater used in the model is set at 2.3 feet, NAVD and remains constant for the duration of each storm event. See Exhibit B for additional details.




## Floodplain

The project is located within FEMA Flood Zone AE with a base flood elevation (BFE) of 11 feet, NAVD. The BFE is based on a storm surge event in the Gulf of Mexico and essentially inundates the entire island. This creates a floodplain contiguous to the Gulf of Mexico and the amount of floodplain volume lost due to fill on the project site is negligible when compared to the

available floodplain storage at the storm surge BFE. There is also no known historic basin storage provided by the site. No compensating storage is required. The floodplain contours are shown in the revised plans.

## Project Land Coverage

The following tables provide the existing and proposed land coverage for the project site.

| Existing Conditions | | |
|---|---|---|
| Coverage | Acres | Percent |
| Building | 0.02 | *1%* |
| Impervious | 0.00 | *0%* |
| Pervious/Upland | 2.80 | *83%* |
| Wetland | 0.54 | *16%* |
| Total | 3.36 | *100%* |

| Proposed Conditions | | |
|---|---|---|
| Coverage | Acres | Percent |
| Building | 0.41 | *12%* |
| Impervious | 0.61 | *18%* |
| Pervious | 0.90 | *27%* |
| "Natural Area" Dry Detention | 0.55 | *16%* |
| Upland Buffer (Preserve) | 0.35 | *10%* |
| Wetland (Preserve) | 0.54 | *16%* |
| Total | 3.36 | *100%* |

## SWM System Land Coverage

The following tables provide the proposed land coverage for the SWM system.

| SWM Basin Land Coverages | | |
|---|---|---|
| Coverage | Acres | Percent |
| Building (max) | 0.41 | *20%* |
| Impervious (max) | 0.60 | *29%* |
| Pervious | 0.50 | *24%* |
| "Natural Area" Dry Detention | 0.55 | *27%* |
| Total | 2.06 | *100%* |

## SWM System Design Summary

| Stormwater Management Design Summary | |
|---|---|
| Basin Area (acres) | 2.05 |
| WSWT Elev. (ft, NAVD) | 1.30 |
| **Control Elev. (ft, NAVD)** | **2.50** |
| **5-Year, 1-Day Storm Event** | |
| Rainfall (in) | 5.50 |
| **Peak Stage (ft, NAVD)** | **4.19** |
| Minimum Road Crown Elev. (ft, NAVD) | 4.50 |
| **25-Year, 3-Day Storm Event** | |
| Rainfall (in) | 11.00 |
| Design Discharge* (cfs) | 0.35 |
| **Peak Stage (ft, NAVD)** | **4.65** |
| Minimum Berm Elevation (ft, NAVD) | 5.00 |
| **100-Year, 3-Day Storm Event (zero discharge)** | |
| Rainfall (in) | 14.00 |
| **Peak Stage (ft, NAVD)** | **5.61** |
| FEMA Base Flood Elevation (ft, NAVD) | 11.00 |
| Min. Building Finished Floor Elev. (ft, NAVD) | 12.00 |

*Discharges through minimum sized 3-inch bleeder.

## Construction Schedule and Techniques

A Construction Pollution Prevention Plan or Stormwater Pollution Prevention Plan (SWP3) was prepared for the project and is provided in a separate attachment.

## Operation and Maintenance

An Urban Stormwater Management Program was prepared for post construction operation and maintenance of the SWM system and is provided in a separate attachment.

## Water Quality Calculations

**Site Areas:**

| Land Coverage | Area |
|---|---|
| Building (max) | 0.41 ac |
| Impervious (max) | 0.60 ac |
| Pervious | 0.50 ac |
| "Natural Area" Dry Detention | 0.55 ac |
| TOTAL | 2.06 ac |
| | |
| Off-site Impervious | 0.02 ac |

**Design Parameters:**

| | |
|---|---|
| Wet Season Water Table Elev. (WSWT) = | 1.30 ft |
| Control Elevation (CE) = | 2.50 ft |
| Dry Detention Bottom Elevation = | 3.50 ft |
| Overflow Elevation = | 4.80 ft |

**One Inch of Runoff from the Basin (WQ1):**

WQ1 = Basin Area x 1 inch = 0.17 ac-ft

**Site Area for Water Quality Calculations (SAWQ):**

The water surface area meeting dimensional criteria is subtracted from the total site area for water quality treatment volume calculations.

SAWQ = Total - Wet Detention Pond = 2.06 ac

**Site Area for Water Quality Pervious/Impervious Calculations (SAWQ2):**

Water surface and roofed areas are deducted from site areas only for water quality pervious/impervious calculations.

SAWQ2 = Total Site - Building - Wet Detention Pond - OSW = 1.65 ac

**Water Quality Percent Impervious (WQ%IMP):**

Water surface and roofed areas are deducted from site areas only for water quality pervious/impervious calculations.

WQ%IMP = Impervious / SAWQ2 = 36%

**2.5 Inches times the Percentage of Imperviousness from the Basin (WQ2):**

WQ2 = 2.5 inches x %IMP x SAWQ = 0.16 ac-ft

**Wet Detention Water Quality Volume (WDV):**

Wet detention volume shall be calculated for the first inch of runoff from the developed project, or the total runoff of 2.5 inches times the percentage of imperviousness, whichever is greater.

WDV = MAX (WQ1, WQ2) = 0.17 ac-ft

**Dry Detention Water Quality Volume: (DDV)**

Dry detention volume shall be provided equal to 75 percent of the above amounts computed for wet detention.

DDV = WDV x 75% = 0.13 ac-ft

**Compensating Water Quality:**

Compensating water qualtiy volume is provided for the proposed off-site impervious area.

Off-site Impervious x 2.5 inches = 0.004 ac-ft

**Required Water Quality Volume - 150%: (WQ-Req)**

The required water quality volume includes an additional 50% volume.

WQ-Req = (DDV + Comp WQ) x 150% = 0.20 ac-ft

**Provided Water Quality Volume (WQ-Provided):**

WQ-Provided = DDA x (Overflow Elev. - DDA Bottom Elev.) 0.72 ac-ft

## Stage-Storage Calculations

| | Dry Detention | Pervious | Impervious |
|---|---|---|---|
| Total Areas > | 0.55 ac | 0.50 ac | 0.60 ac |
| Start Elev. > | 3.50 ft | 3.50 ft | 4.50 ft |
| End Elev. > | na | 5.00 ft | 5.50 ft |

| Stage (ft-NAVD) | Dry Detention (ac) | Pervious (ac) | Impervious (ac) | Total Area (ac) | Inc. Volume (ac-ft) | Cumulative Volume (ac-ft) |
|---|---|---|---|---|---|---|
| 2.30 | 0.001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.49 | 0.001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.50 | 0.55 | 0.00 | 0.00 | 0.55 | 0.00 | 0.00 |
| 4.00 | 0.55 | 0.17 | 0.00 | 0.72 | 0.32 | 0.32 |
| 4.50 | 0.55 | 0.33 | 0.00 | 0.88 | 0.40 | 0.72 |
| 5.00 | 0.55 | 0.50 | 0.30 | 1.35 | 0.56 | 1.28 |
| 5.50 | 0.55 | 0.50 | 0.60 | 1.65 | 0.75 | 2.03 |
| 6.00 | 0.55 | 0.50 | 0.60 | 1.65 | 0.82 | 2.85 |
| 6.50 | 0.55 | 0.50 | 0.60 | 1.65 | 0.82 | 3.67 |
| 7.00 | 0.55 | 0.50 | 0.60 | 1.65 | 0.82 | 4.50 |
| 7.50 | 0.55 | 0.50 | 0.60 | 1.65 | 0.82 | 5.32 |

## Soil Storage Calculations

**Proposed Conditions:**

| | | |
|---|---|---|
| Area = | 2.06 | acres |
| Average Grade = | 4.00 | ft, NGVD |
| WSWT = | 1.30 | ft, NGVD |
| Depth to WSWT = | 2.7 | ft |

Soil Type: Coastal (compacted)

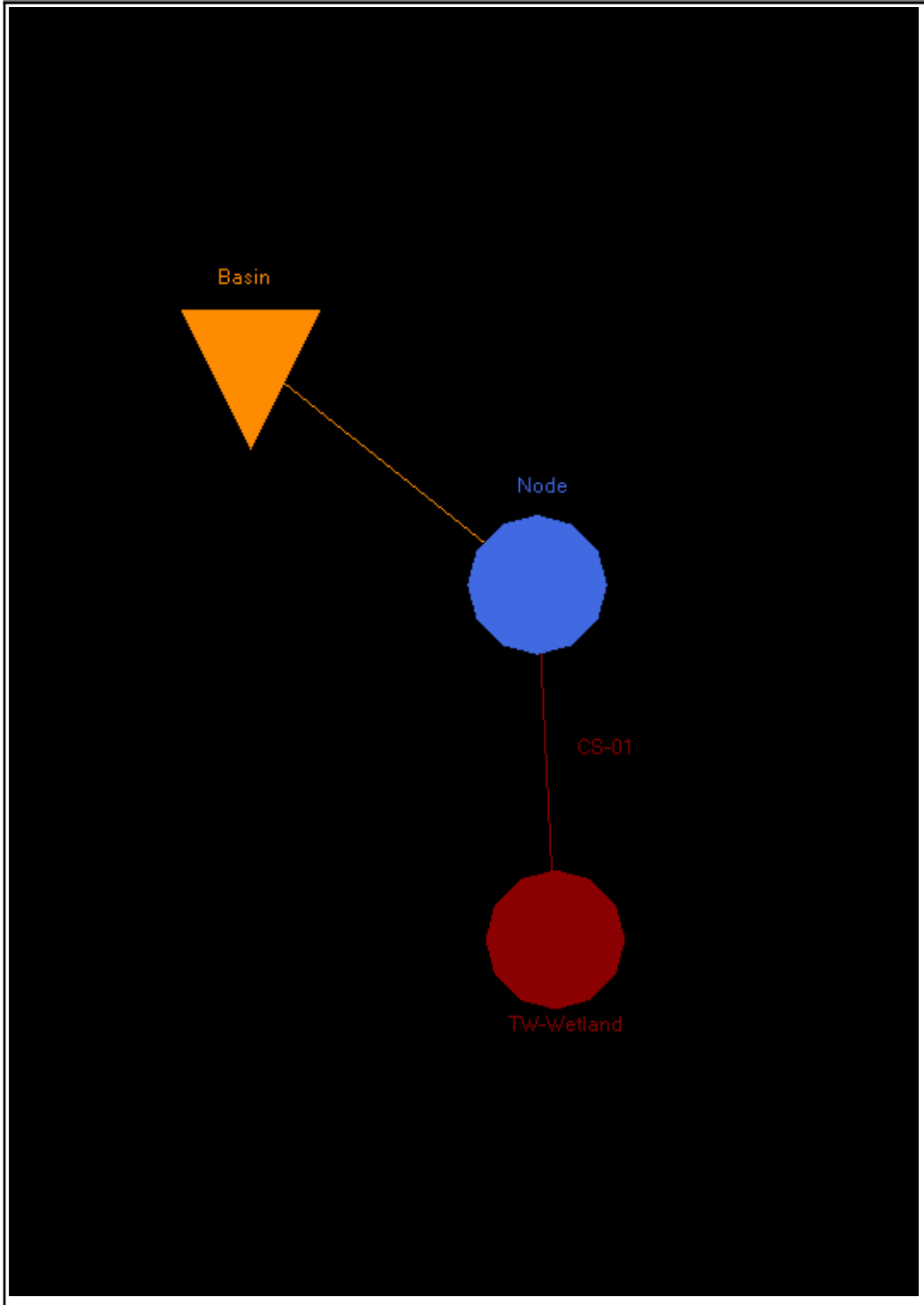
| Depth to WSWT (ft) | S (in) |
|---|---|
| 1 | 0.45 |
| 2 | 1.88 |
| 3 | 4.95 |
| 4 | 8.18 |

| | | |
|---|---|---|
| Soil Storage in pervious areas = | 4.0 | inches |
| Curve Number (CN) = | 71.3 | |
| Pervious area = | 0.50 | acres |
| Site Soil Storage = | 0.98 | inches |
| Weighted Curve Number (CN) = | 91.1 | |

ICPR Model

(Remainder of page intentionally left blank)

Background Image: Node Dia



## Simple Basin: Basin

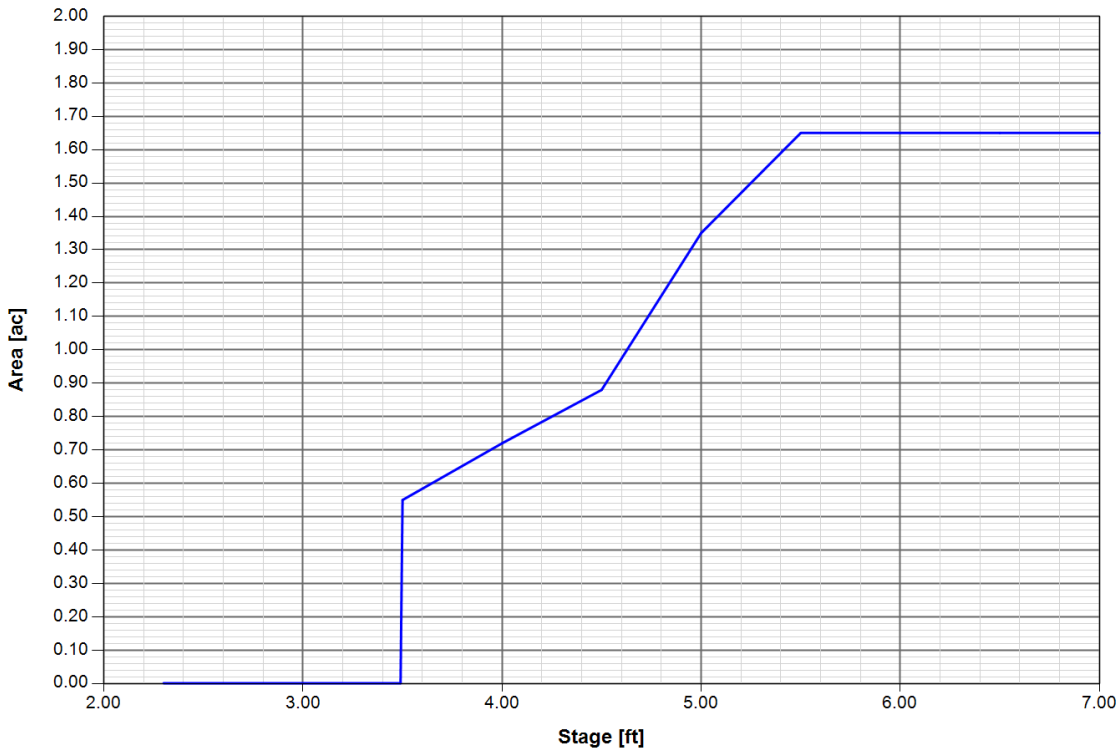
| | |
|---|---|
| Scenario: | Scenario1 |
| Node: | Node |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 10.0000 min |
| Max Allowable Q: | 0.00 cfs |
| Time Shift: | 0.0000 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256.0 |
| Area: | 2.0600 ac |
| Curve Number: | 91.1 |
| % Impervious: | 0.00 |
| % DCIA: | 0.00 |
| % Direct: | 0.00 |
| Rainfall Name: | |

Comment:

Simple Basin Runoff Summary [Scenario1]

| Basin Name | Sim Name | Max Flow [cfs] | Time to Max Flow [hrs] | Total Rainfall [in] | Total Runoff [in] | Area [ac] | Equivalent Curve Number | % Imperv | % DCIA |
|---|---|---|---|---|---|---|---|---|---|
| Basin | 005YR-1D | 8.58 | 12.0500 | 5.50 | 4.47 | 2.0600 | 91.1 | 0.00 | 0.00 |
| Basin | 025YR-3D | 9.87 | 60.0167 | 11.00 | 9.90 | 2.0600 | 91.1 | 0.00 | 0.00 |

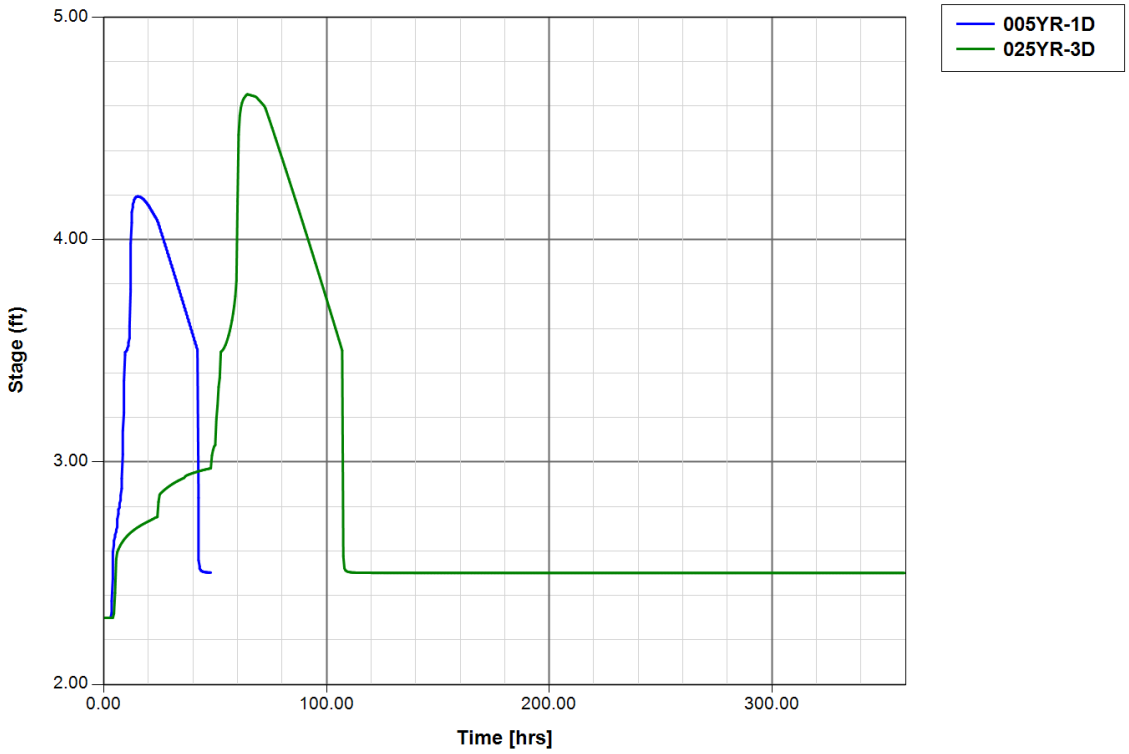
Node: Node Scenario: Scenario1



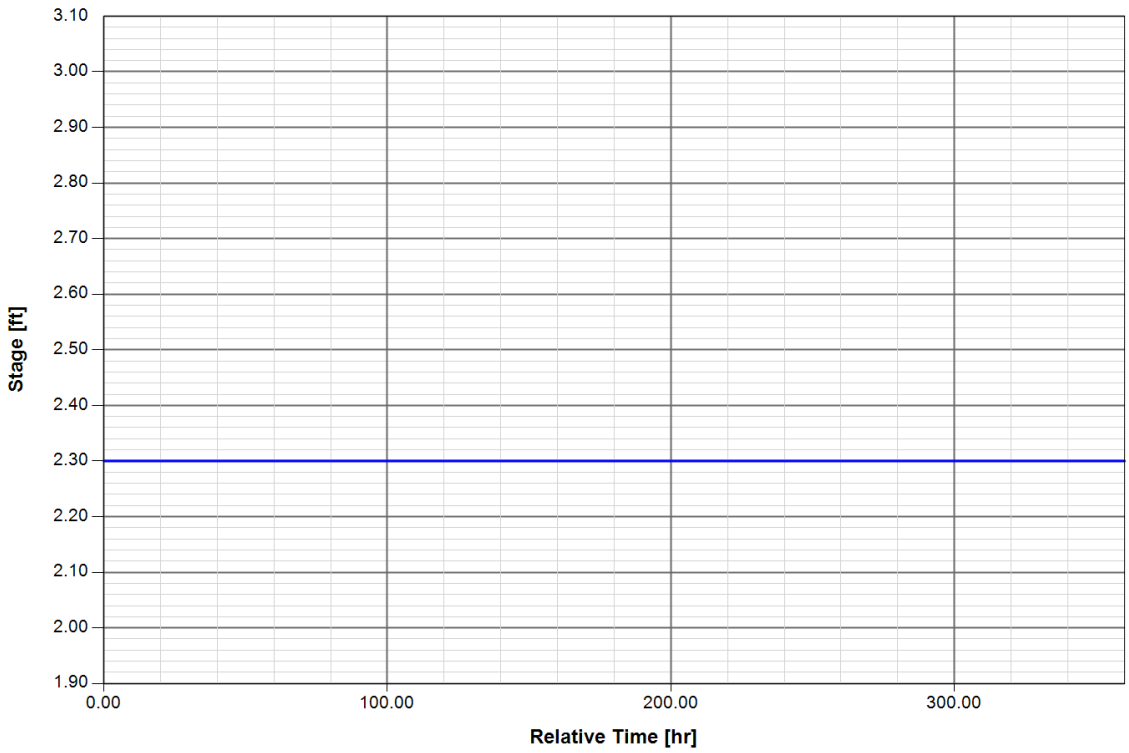

Node Max Conditions w/ Times [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Node | 005YR-1D | 4.00 | 4.19 | 0.0010 | 8.57 | 0.30 | 34072 | 15.3849 | 9.0648 | 12.0494 | 15.3183 |
| Node | 025YR-3D | 4.00 | 4.65 | 0.0010 | 9.87 | 0.34 | 44603 | 64.4293 | 59.9491 | 60.0162 | 64.3710 |

Stage [ Node: Node ]



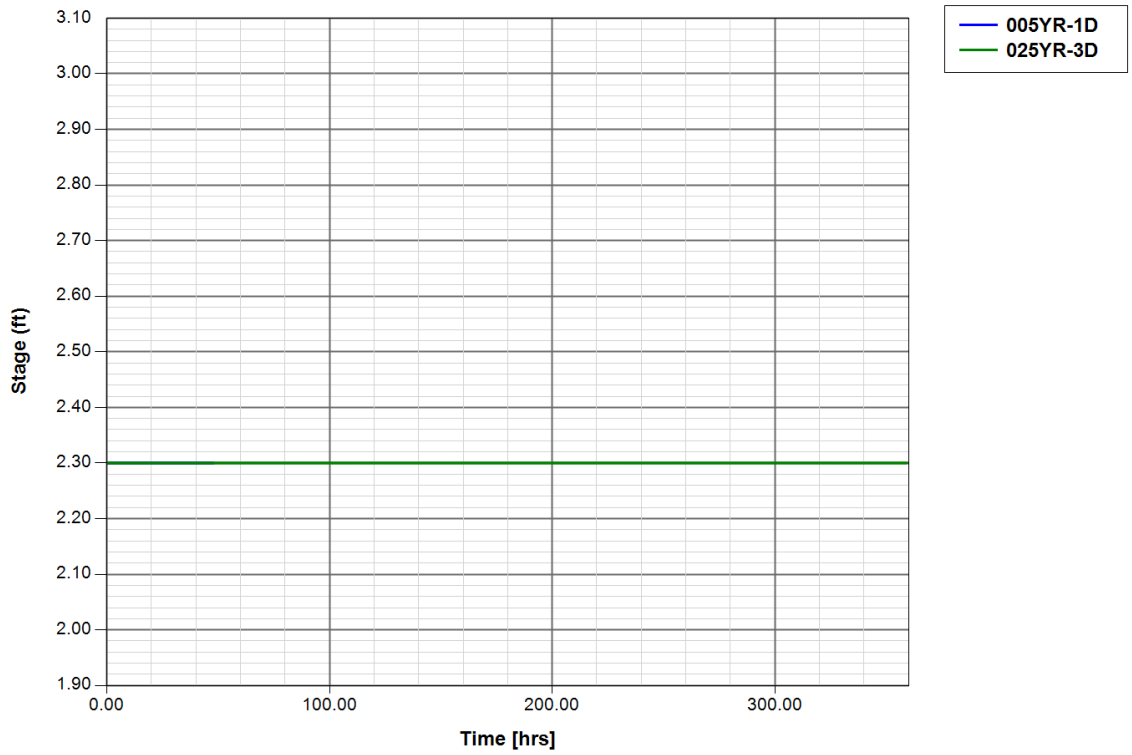
Node: TW-Wetland Scenario: Scenario1




Node Max Conditions w/ Times [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-Wetland | 005YR-1D | 0.00 | 2.30 | 0.0000 | 0.30 | 0.00 | 0 | 0.0000 | 0.0000 | 15.3183 | 0.0000 |
| TW-Wetland | 025YR-3D | 0.00 | 2.30 | 0.0000 | 0.34 | 0.00 | 0 | 0.0000 | 0.0000 | 64.5877 | 0.0000 |

Stage [ Node: TW-Wetland ]




| Drop Structure Link: CS-01 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 0.10 ft | Invert: | 0.00 ft |
| From Node: | Node | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-Wetland | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Positive | Bottom Clip | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 0 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 21.00 ft | Top Clip | | | |
| FHWA Code: | 0 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 dec | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | |
|---|---|
| Weir: | 1 |
| Weir Count: | 1 |
| Weir Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Sharp Crested Vertical |
| Geometry Type: | Circular |
| Invert: | 2.50 ft |
| Control Elevation: | 2.50 ft |
| Max Depth: | 0.25 ft |

| Bottom Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| Top Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| Discharge Coefficients | |
|---|---|
| Weir Default: | 3.200 |
| Weir Table: | |
| Orifice Default: | 0.600 |
| Orifice Table: | |

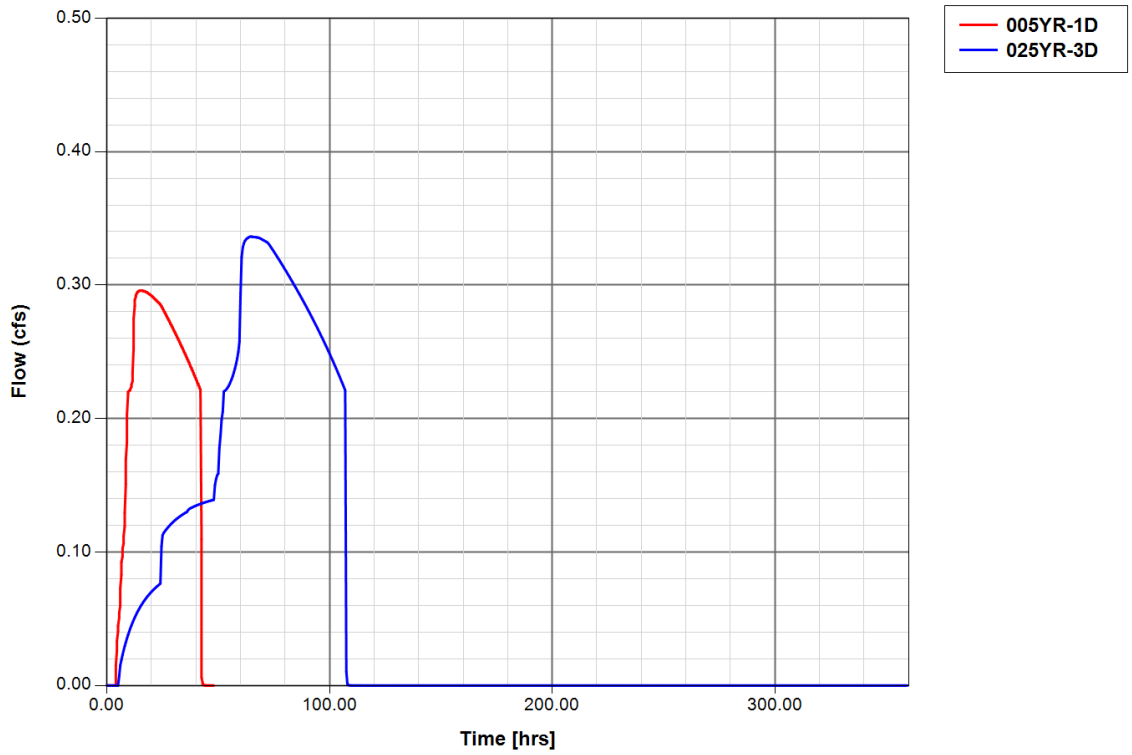
Weir Comment: 3-inch diameter bleeder.

Drop Structure Comment:

Link Min/Max Conditions with Times [Scenario1]

| Link Name | Sim Name | Max Flow [cfs] | Min Flow [cfs] | Min/Max Delta Flow [cfs] | Max Us Velocity [fps] | Max Ds Velocity [fps] | Time to Max Flow [hrs] | Time to Min Flow [hrs] | Time to Min/Max Delta Flow [hrs] | Time to Max Us Velocity [hrs] | Time to Max Ds Velocity [hrs] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CS-01 - Pipe | 005YR-1D | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 15.3183 | 0.0000 | 42.5126 | 0.0000 | 0.0000 |
| CS-01 - Weir: 1 | 005YR-1D | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 15.3183 | 0.0000 | 42.5178 | 0.0000 | 0.0000 |
| CS-01 - Pipe | 025YR-3D | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 64.5877 | 0.0000 | 107.3307 | 0.0000 | 0.0000 |
| CS-01 - Weir: 1 | 025YR-3D | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 64.3710 | 0.0000 | 24.1737 | 0.0000 | 0.0000 |

Link Flow: CS-01 [Scenario1]



## Simulation: 005YR-1D

Scenario: Scenario1
Run Date/Time: 6/28/2022 11:39:26 AM
Program Version: ICPR4 4.07.08

## General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 48.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 60.0000 | 0.1000 |
| Max Calculation Time: | | 30.0000 |

## Output Time Increments

### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 15.0000 |

### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 15.0000 |

### Restart File

Save Restart: False

## Resources & Lookup Tables

### Resources

Rainfall Folder:
Unit Hydrograph Folder:

### Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

## Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr

| | | | |
|---|---|---|---|
| dZ Tolerance: | 0.0010 ft | Smp/Man Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | ~SCSII-24 |
| | | Rainfall Amount: | 5.50 in |
| Edge Length Option: | Automatic | Storm Duration: | 24.0000 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 100 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

## Simulation: 025YR-3D

Scenario: Scenario1
Run Date/Time: 6/28/2022 11:39:26 AM
Program Version: ICPR4 4.07.08

## General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 360.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 60.0000 | 0.1000 |
| Max Calculation Time: | | 30.0000 |

## Output Time Increments

### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 30.0000 |

### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 30.0000 |

### Restart File

Save Restart: False

## Resources & Lookup Tables

### Resources

Rainfall Folder:
Unit Hydrograph Folder:

### Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

## Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr

| | | | |
|---|---|---|---|
| dZ Tolerance: | 0.0010 ft | Smp/Man Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | ~SFWMD-72 |
| | | Rainfall Amount: | 11.00 in |
| Edge Length Option: | Automatic | Storm Duration: | 72.0000 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 100 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

## Simple Basin: Basin

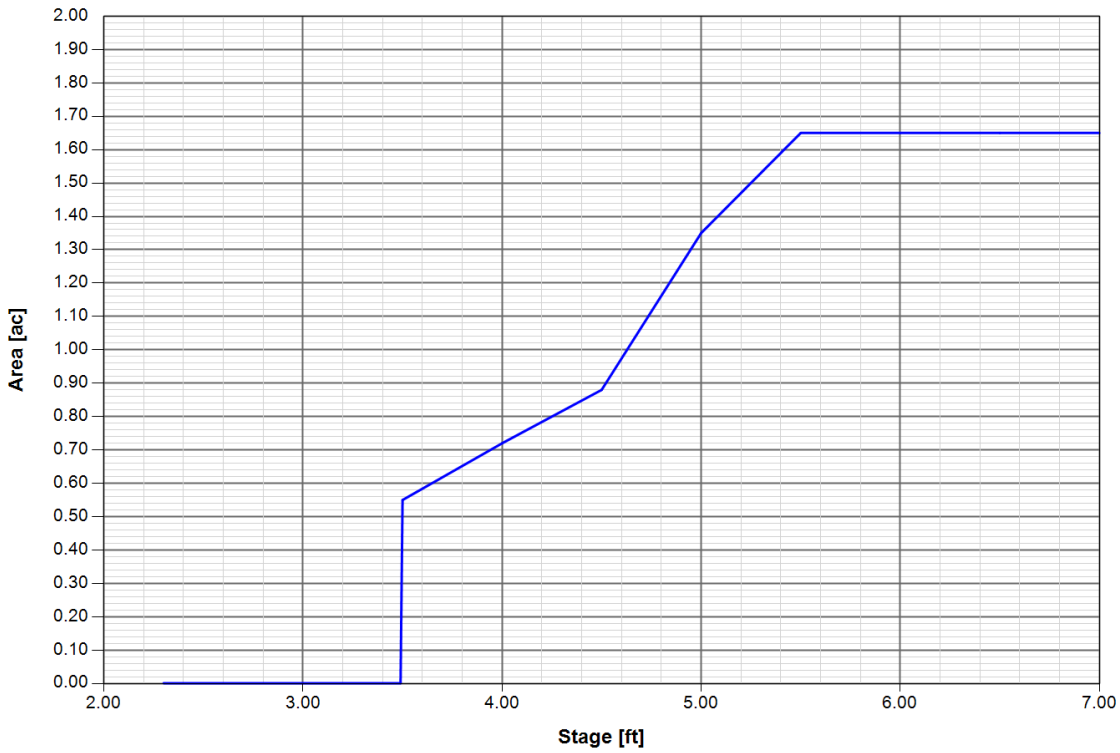
| | |
|---|---|
| Scenario: | Scenario1 |
| Node: | Node |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 10.0000 min |
| Max Allowable Q: | 0.00 cfs |
| Time Shift: | 0.0000 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256.0 |
| Area: | 2.0600 ac |
| Curve Number: | 91.1 |
| % Impervious: | 0.00 |
| % DCIA: | 0.00 |
| % Direct: | 0.00 |
| Rainfall Name: | |

Comment:

Simple Basin Runoff Summary [Scenario1]

| Basin Name | Sim Name | Max Flow [cfs] | Time to Max Flow [hrs] | Total Rainfall [in] | Total Runoff [in] | Area [ac] | Equivalent Curve Number | % Imperv | % DCIA |
|---|---|---|---|---|---|---|---|---|---|
| Basin | 100YR-3D | 12.63 | 60.0167 | 14.00 | 12.85 | 2.0600 | 91.1 | 0.00 | 0.00 |

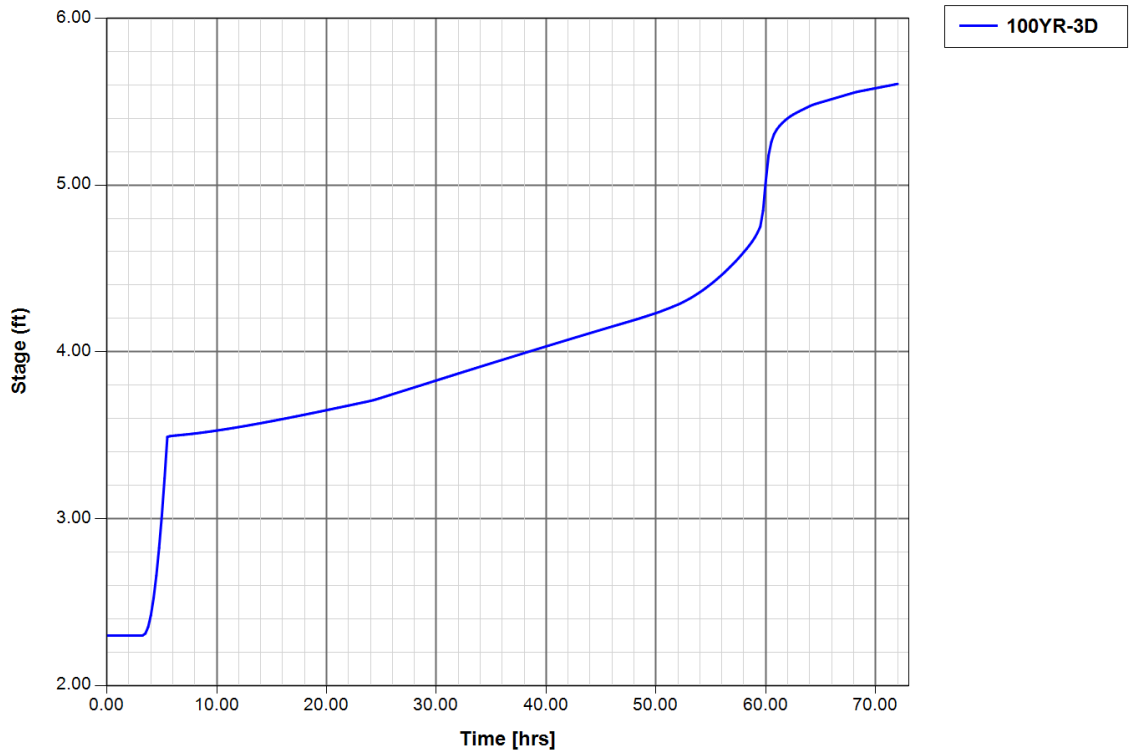
Node: Node Scenario: Scenario1




Node Max Conditions w/ Times [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Node | 100YR-3D | 4.00 | 5.61 | 0.0010 | 12.63 | 0.00 | 71874 | 72.0035 | 5.2605 | 60.0165 | 0.0000 |

Stage [ Node: Node ]




| Drop Structure Link: CS-01 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 0.10 ft | Invert: | 0.00 ft |
| From Node: | Node | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-Wetland | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | None | Bottom Clip | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 0 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 21.00 ft | Top Clip | | | |
| FHWA Code: | 0 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 dec | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | |
|---|---|
| Weir: | 1 |
| Weir Count: | 1 |
| Weir Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Sharp Crested Vertical |
| Geometry Type: | Circular |
| Invert: | 2.50 ft |
| Control Elevation: | 2.50 ft |
| Max Depth: | 0.25 ft |

| Bottom Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| Top Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| Discharge Coefficients | |
|---|---|
| Weir Default: | 3.200 |
| Weir Table: | |
| Orifice Default: | 0.600 |
| Orifice Table: | |

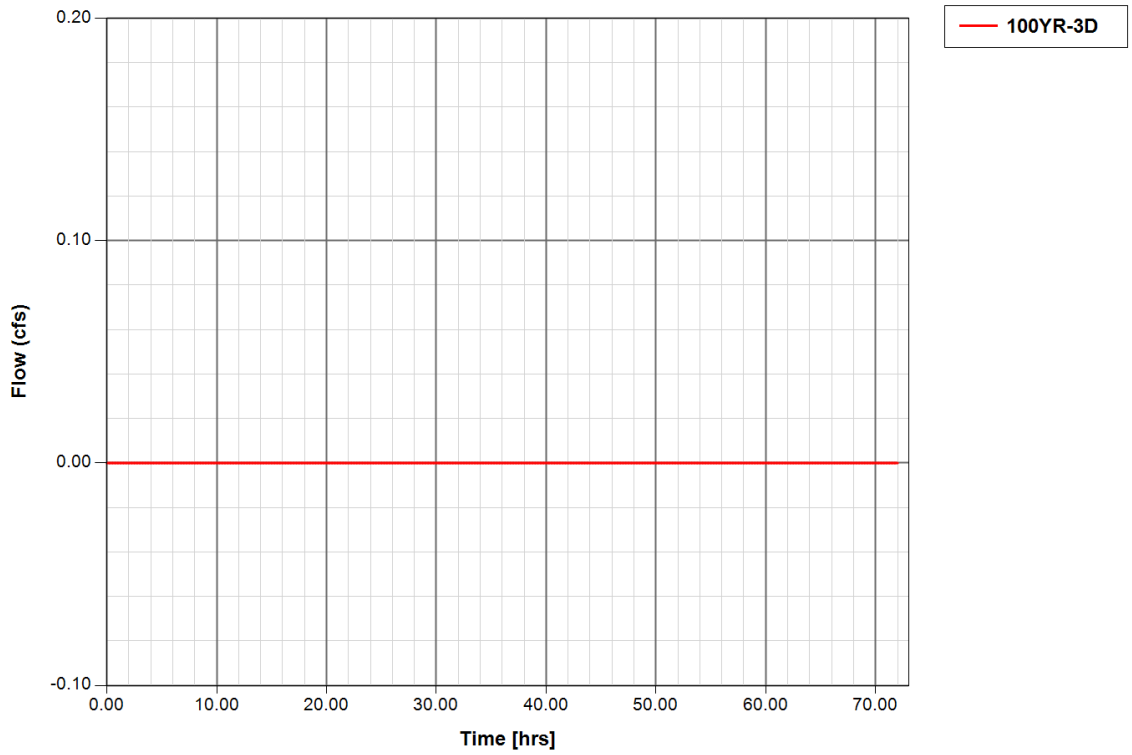
Weir Comment: 3-inch diameter bleeder.

Drop Structure Comment:

Link Min/Max Conditions with Times [Scenario1]

| Link Name | Sim Name | Max Flow [cfs] | Min Flow [cfs] | Min/Max Delta Flow [cfs] | Max Us Velocity [fps] | Max Ds Velocity [fps] | Time to Max Flow [hrs] | Time to Min Flow [hrs] | Time to Min/Max Delta Flow [hrs] | Time to Max Us Velocity [hrs] | Time to Max Ds Velocity [hrs] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CS-01 - Pipe | 100YR-3D | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| CS-01 - Weir: 1 | 100YR-3D | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Link Flow: CS-01 [Scenario1]



## Simulation: 100YR-3D

Scenario: Scenario1
Run Date/Time: 6/28/2022 11:43:41 AM
Program Version: ICPR4 4.07.08

## General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 72.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 60.0000 | 0.1000 |
| Max Calculation Time: | | 30.0000 |

## Output Time Increments

### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 15.0000 |

### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.0000 | 15.0000 |

### Restart File

Save Restart: False

## Resources & Lookup Tables

### Resources

Rainfall Folder:
Unit Hydrograph Folder:

### Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

## Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr

| | | | |
|---|---|---|---|
| dZ Tolerance: | 0.0010 ft | Smp/Man Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | ~SFWMD-72 |
| | | Rainfall Amount: | 14.00 in |
| Edge Length Option: | Automatic | Storm Duration: | 72.0000 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 100 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

2017

FLOODPLAIN MANAGEMENT IN FLORIDA

# Quick Guide




**Florida Division of Emergency Management**

Bureau of Mitigation
State Floodplain Management Office
2555 Shumard Oak Boulevard, Tallahassee, FL 32399

www.floridadisaster.org/mitigation


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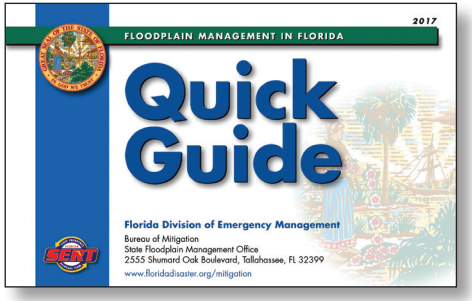

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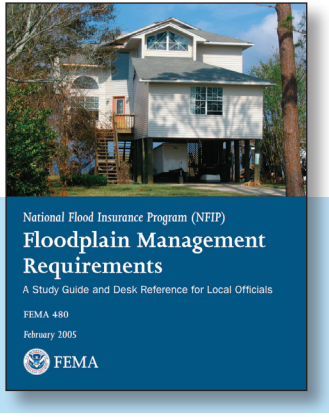
## About This Guide

This **Quick Guide** helps local officials and citizens understand why and how Florida communities must manage development in floodplains to protect people and property. Flood-prone communities adopt codes and ordinances that detail the rules and requirements. In cases of conflict, those codes and ordinances, not the guidance provided in this publication, must be followed.




This **Quick Guide** was developed and funded jointly by the Florida Division of Emergency Management and the Federal Emergency Management Agency (FEMA).

Questions, comments and requests for additional copies should be directed to the Florida Division of Emergency Management, State Floodplain Management Office at floods@em.myflorida.com and (850) 815-4556.




For more detail on all aspects of floodplain management, please refer to FEMA 480, *National Flood Insurance Program, Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials.*

*Prepared by:*

RCQUINN CONSULTING, INC.

## Why Do We Regulate the Floodplain?

**To protect people and property.** Implementing floodplain management regulations reduces vulnerability to future flood risk. If we know low lying land will flood from time to time, we should make reasonable decisions to help protect our families, homes, and businesses.

**To make sure Federal flood insurance is available**. Communities must join the NFIP and administer floodplain management requirements before residents and businesses can purchase Federal flood insurance and to be eligible for some types of Federal assistance, including flood mitigation grants.

**To save tax dollars.** Every time communities experience flood disasters local budgets are impacted. If we build smart, we'll have fewer problems the next time the water rises. Remember, Federal disaster assistance is not available for all floods. Even when the President declares a disaster, communities still must pay a portion of repair and clean-up costs, temporary housing assistance, and evacuation expenses.

**To avoid liability and lawsuits.** If we know an area is mapped as a flood hazard area, and if we know people could be in danger and buildings could be damaged, doesn't it make sense to take reasonable protective steps as our communities develop and redevelop?

Since 1978, Federal flood insurance policy holders in Florida have received over $4 billion in claim payments. Even though that represents many payments, most of the State's flood-prone property owners do not have flood insurance.

## What is the National Flood Insurance Program?

The National Flood Insurance Program (NFIP) was created by Congress in 1968 to protect lives and property and to reduce the financial burden of providing disaster assistance. The NFIP is administered by the Federal Emergency Management Agency (FEMA). Nationwide, over 22,200 communities participate in the NFIP— more than 460 Florida counties, cities and towns participate.




The NFIP is based on a mutual agreement between the Federal Government and communities. Communities that participate agree to regulate development in mapped flood hazard areas according to certain criteria and standards. The partnership involves:

- **Flood hazard maps.** In partnership with water management districts, communities and the State, FEMA produces flood maps in accordance with FEMA standards. The maps are used by communities, insurance agents, real estate professionals, and others.
- **Flood insurance.** Property owners and renters in participating communities are eligible to purchase Federal flood insurance for buildings and contents.
- **Regulations.** Communities must adopt and enforce minimum floodplain management regulations so that development, including buildings, is undertaken in ways that reduce exposure to flooding.

To learn more about the NFIP, including your potential flood risk and the approximate cost of a flood insurance policy, go to FEMA's FloodSmart website www.floodsmart.gov.

## Community Responsibilities

To participate in the National Flood Insurance Program, communities agree to:

- **Recognize** flood hazards in community planning (see page 5)
- **Adopt and enforce** flood maps and a flood damage prevention ordinance
- **Require** permits for all types of development in the floodplain (see page 26)
- **Assure** that building sites are reasonably safe from flooding
- **Establish** Base Flood Elevations (BFE) where not determined on Flood Insurance Rate Maps (FIRMs)
- **Require** new and substantially improved homes and manufactured homes to be elevated above the BFE
- **Require** non-residential buildings to be elevated above the BFE, or dry floodproofed
- **Determine** if damaged buildings are substantially damaged
- **Conduct** field inspections; cite and remedy violations
- **Require and maintain** surveyed elevation information to document compliance (see pages 38, 39, and 41)
- **Carefully consider** requests for variances
- **Resolve** non-compliance and violations of floodplain management requirements
- **Advise and work** with FEMA and the State when updates to flood maps are needed
- **Maintain** records for review and respond to periodic requests for reports to FEMA

## NFIP Recommended Planning Considerations

Florida communities should consider incorporating planning considerations in comprehensive plans, land development codes, floodplain management regulations, and Local Mitigation Strategies to reflect the long-term goal of increasing resiliency to future flooding. NFIP regulations (Section 60.22(c)) outline 19 factors for consideration, including:

- Divert development to areas outside the SFHA to reduce flood damage
- Full public disclosure to potential buyers of properties in the SFHA
- Acknowledge that SFHA development may increase flood risk of existing development
- Improve local drainage to control increased runoff that increases the probability of flooding on other properties
- Require additional elevation above the Florida Building Code (1-foot freeboard or more above BFE)
- Require elevation methods such as pilings or columns rather than fill to maintain the storage capacity of the floodplain and to minimize environmental impacts
- Require evacuation plans for manufactured home parks and subdivisions

## Flood Insurance: Property Owner's Financial Protection

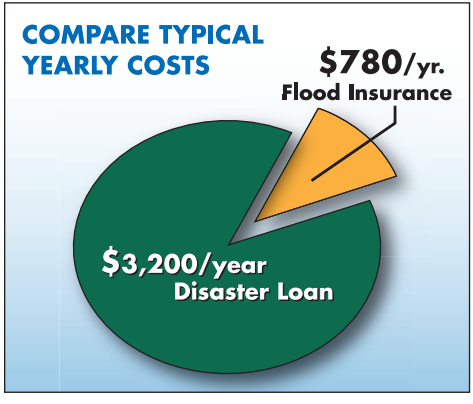
**Who needs flood insurance?** Federal flood insurance is required for all buildings in mapped flood zones shown on FEMA's maps if they are financed by Federally-backed loans or mortgages. All homeowners, business owners, and renters in communities that participate in the NFIP may purchase Federal flood insurance on any building and its contents, even if outside of the mapped flood zone. Homes in mapped flood zones are five times more likely to be damaged by flooding than by major fires.

**Not in a mapped flood zone?** Unfortunately, it's often after a flood that many people discover that their home or business property insurance does NOT cover flood damage. Approximately 25% of all flood damage occurs in low risk zones, commonly described as being "outside the mapped flood zone."

**Protected by a levee or dam?** Even areas protected by levees or other flood control structures have some risk of flooding if the structures are overtopped or fail. Even when levees provide "100-year" flood protection, there is still a chance that a higher flood will cause flooding.

**What about disaster grants and loans?** Federal disaster grants do not cover most losses and repayment of a disaster loan can cost many times more than the cost of a flood insurance policy.

**Want to know more?** Learn more at www.floodsmart.gov. To purchase a policy, call your insurance agent. To get the name of an agent in your community, use `<Find an Agency>` on the FloodSmart webpage.



## The NFIP's Community Rating System (CRS)

The NFIP recognizes communities that achieve better flood resiliency by providing policy holders with reduced flood insurance premiums. Communities must apply to participate in CRS and commit to implement and certify activities that contribute to reduced flood risk. Examples of actions communities can take to reduce the cost of flood insurance premiums include:

- Preserve open space in the floodplain
- Enforce higher standards for safer development through zoning, stormwater, subdivision, and flood damage protection ordinances
- Develop hazard mitigation plans and watershed and storm management plans
- Undertake engineering studies and prepare flood maps
- Obtain grants to buy out or elevate houses or to floodproof businesses
- Maintain drainage systems
- Monitor flood conditions and issue warnings
- Inform people about flood hazards, flood insurance, and how to reduce flood damage

Community officials can request assistance from CRS specialists to help with the application process and prerequisites. Check the online CRS Resource Center (see page 70).

Property owners in more than 234 Florida communities that participate in the CRS receive premium discounts ranging from 5% to 35% (as of May 2017).

## Community Rating System in Florida



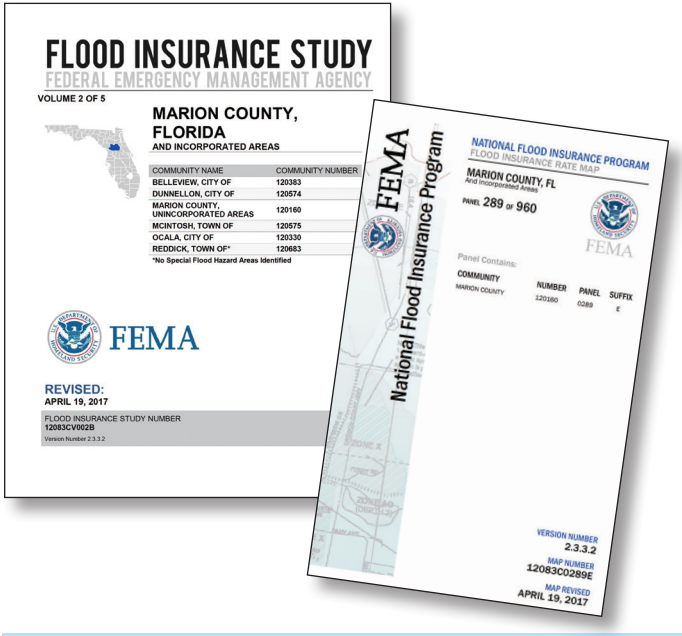

The State Floodplain Management Office helps CRS communities improve their ratings and helps non-CRS communities qualify for the program. Every community benefits by adopting and committing to implementation of Florida's *CRS Seven Performance Measures*:

1. Adopt floodplain regulations coordinated with the Florida Building Code (see page 33)
2. Conduct annual inspections of flood hazard areas and resolve compliance matters
3. Adopt a flood zone permit application form, procedures and checklists
4. Use FEMA's Elevation Certificate form and verify accurate completion when certificates are submitted
5. Send letters to local propane and air conditioning companies about compliant installations
6. Use a set of forms and develop Substantial Improvement/Substantial Damage determination procedures
7. Provide online public access to digital Flood Insurance Rate Maps and Elevation Certificates

Download the *CRS Seven Performance Measures* at www.floridadisaster.org/Mitigation

Florida's CRS communities save property owners more than $195 million each year by qualifying for Federal flood insurance premium discounts. If every Florida non-CRS community qualified at the lowest level for 5% discounts on Federal flood insurance premiums the additional savings would be about $976,000 each year. Data as of May, 2017.

## Looking for FEMA Flood Map Information?



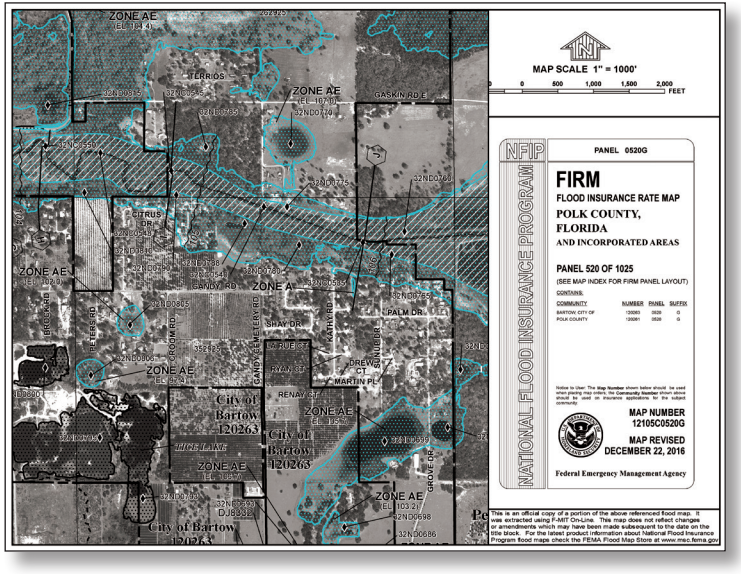

- Flood Insurance Studies (FISs) are compilations of flood risk information used for community planning and development.
- Flood Insurance Rate Maps (FIRMs) show flood zones subject to regulations and where Federal flood insurance is required.
- Access FIRMs at the FEMA Flood Map Service Center at www.fema.gov, where current and historical flood maps may be viewed and downloaded.
- Many cities and counties also make digital flood maps available online, sometimes with property parcel data.

**Need a fast answer?** Community planning, engineering, or permit offices and water management districts may also have paper flood maps available for viewing by the public.

## FIRMette: FEMA Flood Maps Online

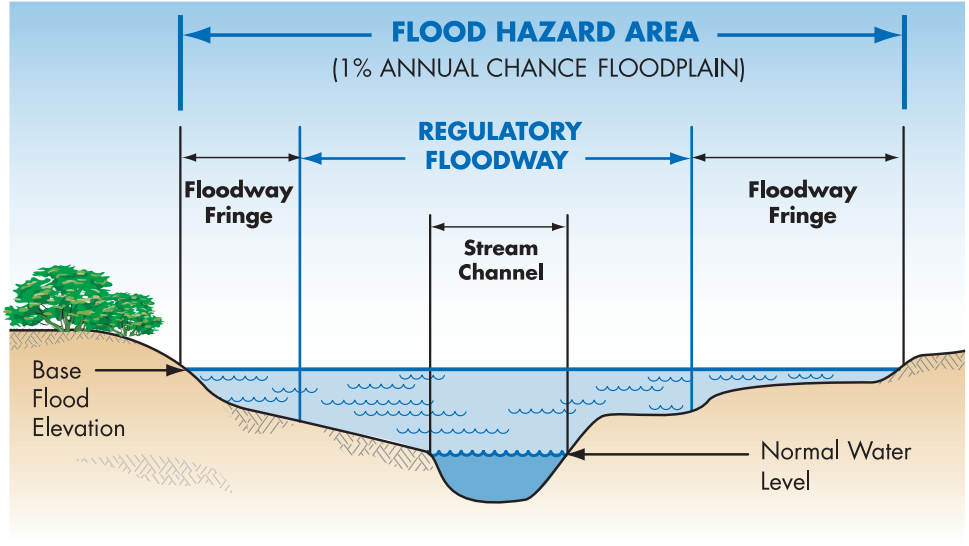
Portions of flood maps can be produced, saved, and printed by making a "FIRMette." FIRMettes are full-scale sections of FIRMs.

- The tutorial "How to Find Your FIRM and Make a FIRMette" is available at www.fema.gov/media-library/assets/documents/34930.
- Making a FIRMette is easy after a property is located. Use the <Search by Address> link or <Search All Products> to find the community and map panel of interest.
- Earlier versions of FIRMs are available for many communities, so current flood hazard information can be compared to historic data.




Go to www.msc.fema.gov and check out the "MSC Frequently Asked Questions." For step-by-step instructions on how to read flood maps, view the How to Read a Flood Insurance Rate Map Tutorial.

## Understanding the Riverine Floodplain



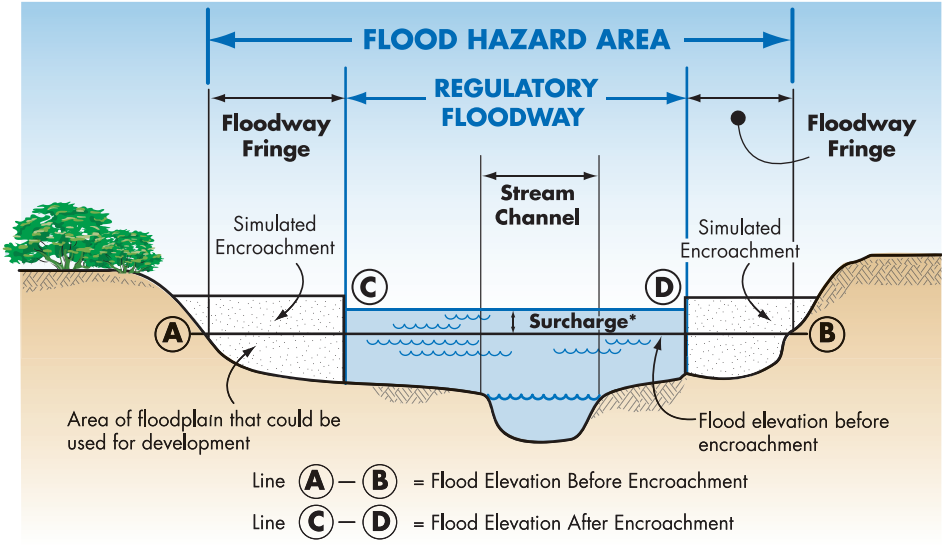

For riverine floodplains with Base Flood Elevations (BFEs) determined by detailed flood studies, the Flood Profile in the Flood Insurance Study shows water surface elevations for different frequency floods (see page 15).

### Terms and Definitions

The **Special Flood Hazard Area (SFHA)** is that portion of the floodplain subject to inundation by the base flood (1% annual chance) and/or flood-related erosion hazards. Riverine SFHAs are shown on FIRMs as Zones A, AE, AH, AO, AR, and A99. Older FIRMs may have Zones A1-A30.

See page 12 to learn about the floodway, the area of the regulatory floodplain where flood waters usually are deeper and flow faster.

## Understanding the Regulatory Floodway




### Terms and Definitions

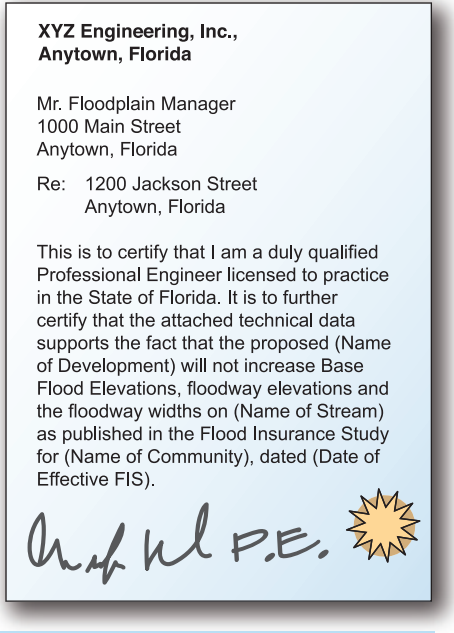
The **Floodway** is the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to pass the base flood discharge without cumulatively increasing flood elevations.

Computer models are used to simulate "encroachment" or development in the floodway fringe in order to predict where and how much the Base Flood Elevation would increase if the floodway fringe is allowed to be developed.

For any proposed floodway development, the applicant must provide evidence that "no rise" will occur or obtain a Conditional Letter of Map Revision (CLOMR) before a local floodplain permit can be issued (see page 23). Experienced registered professional engineers must make sure proposed projects either won't increase flooding or that any increases do not impact structures on other properties.

## The Regulatory Floodway "No Rise" Certification

- Floodways convey the largest volume of water and may have high velocities.
- Some communities restrict development in regulatory floodways.
- Engineers must prepare floodway encroachment analyses to evaluate the hydraulic impact of proposed development.
- Development is not allowed unless certified to cause "no rise" (no increase) in Base Flood Elevations.
- "No rise" certifications must be signed, sealed, and dated by a Professional Engineer licensed in Florida and qualified to conduct hydraulic analyses.



**XYZ Engineering, Inc.,**
**Anytown, Florida**

Mr. Floodplain Manager
1000 Main Street
Anytown, Florida

Re: 1200 Jackson Street
Anytown, Florida

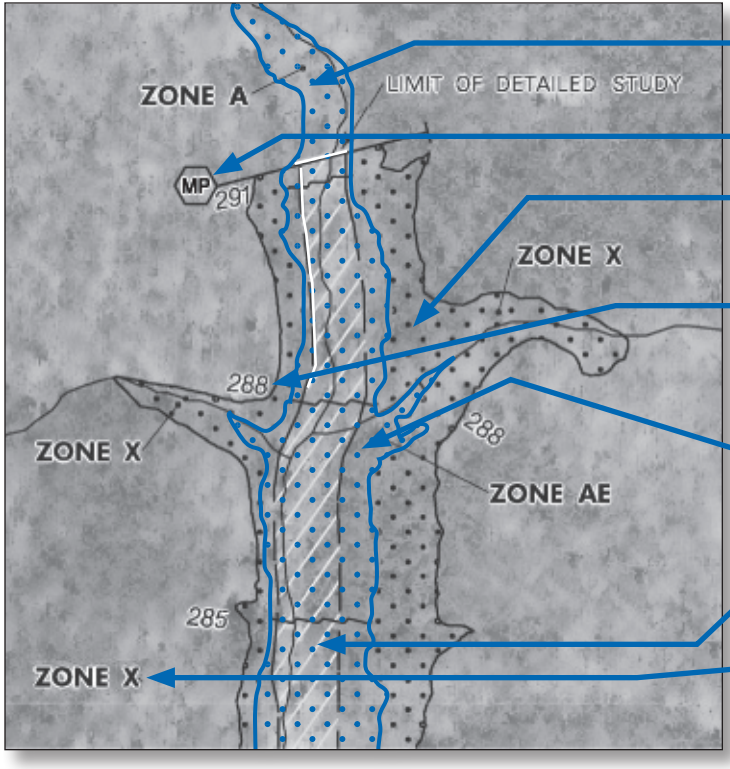
This is to certify that I am a duly qualified Professional Engineer licensed to practice in the State of Florida. It is to further certify that the attached technical data supports the fact that the proposed (Name of Development) will not increase Base Flood Elevations, floodway elevations and the floodway widths on (Name of Stream) as published in the Flood Insurance Study for (Name of Community), dated (Date of Effective FIS).

P.E.

The floodway encroachment analysis must be based on technical data obtained from FEMA.

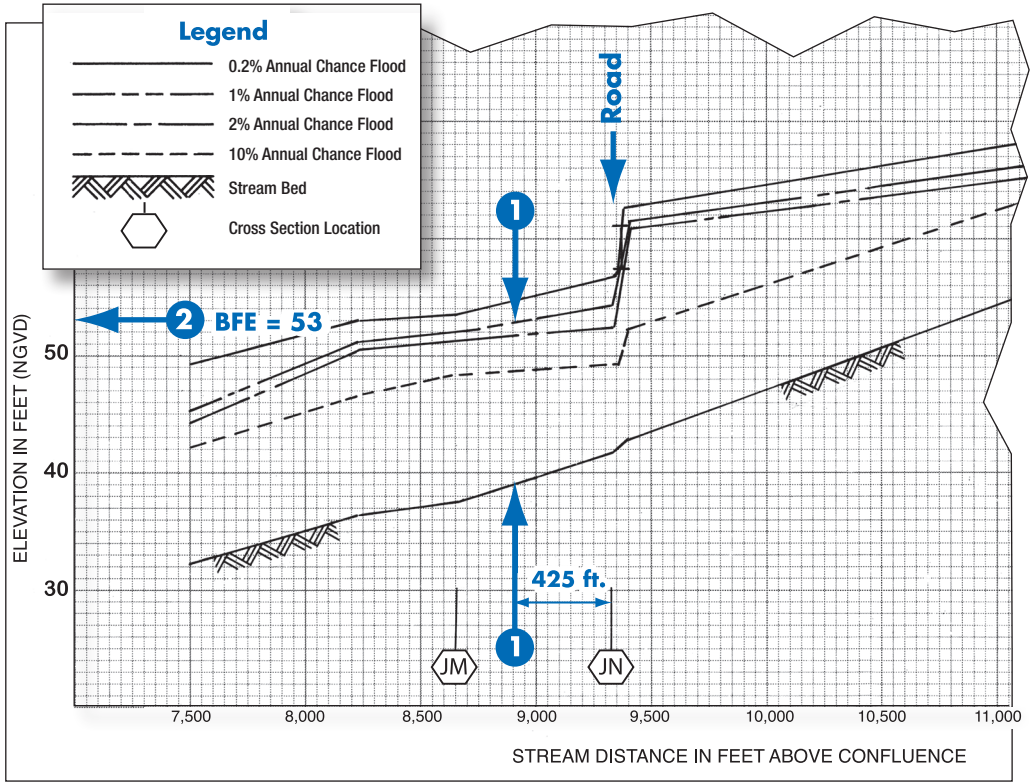
**Reduce flood risk – don't build in the Floodway!**

## Flood Insurance Rate Map (Riverine)




1. **Zone A** (approximate) is the flood hazard area without BFEs.
2. **Cross Section** location (see page 15).
3. **Shaded Zone X** is the 0.2% annual chance (500-year) floodplain (formerly Zone B).
4. **Base Flood Elevation (BFE)** is the water surface elevation of the base flood rounded to the nearest whole foot (consult FIS profiles and tables for more accurate elevations).
5. **Zone AE** is the 1% annual chance (100-year) floodplain with BFEs (formerly Zones A1- A30).
6. The **Floodway** is the cross-hatched area (see page 12).
7. **Unshaded Zone X** is all other areas considered low risk (formerly Zone C).

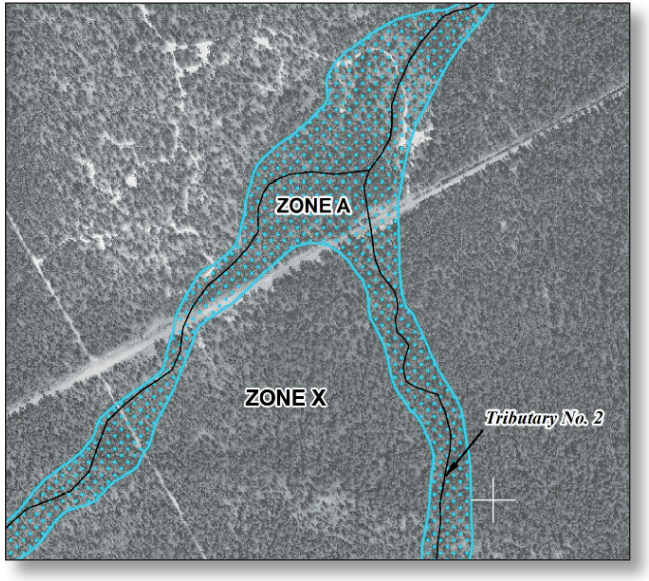
## Using the Riverine Flood Profile to Determine Riverine BFEs




Flood Profiles from Flood Insurance Study reports can be used to determine the BFE at a specific site. Profiles also show estimated water surface elevations for floods other than the 1% annual chance flood (100-year).

1. On the effective flood map, locate the site by measuring the distance, along the profile baseline of the stream channel, from a known point such as a road or cross section, for example, ⟨JM⟩ or ⟨JN⟩.
2. Scale that distance on the Flood Profile and read up to the profile of interest, then across to determine the BFE, to the nearest 1/10 of a foot. (Answer: 53 feet).

## Approximate Flood Zones




FEMA uses existing information – not engineering studies – to draw Approximate Zone A boundaries. Information may be provided by the U.S. Army Corps of Engineers, other federal agencies, State and local agencies, and historic records.

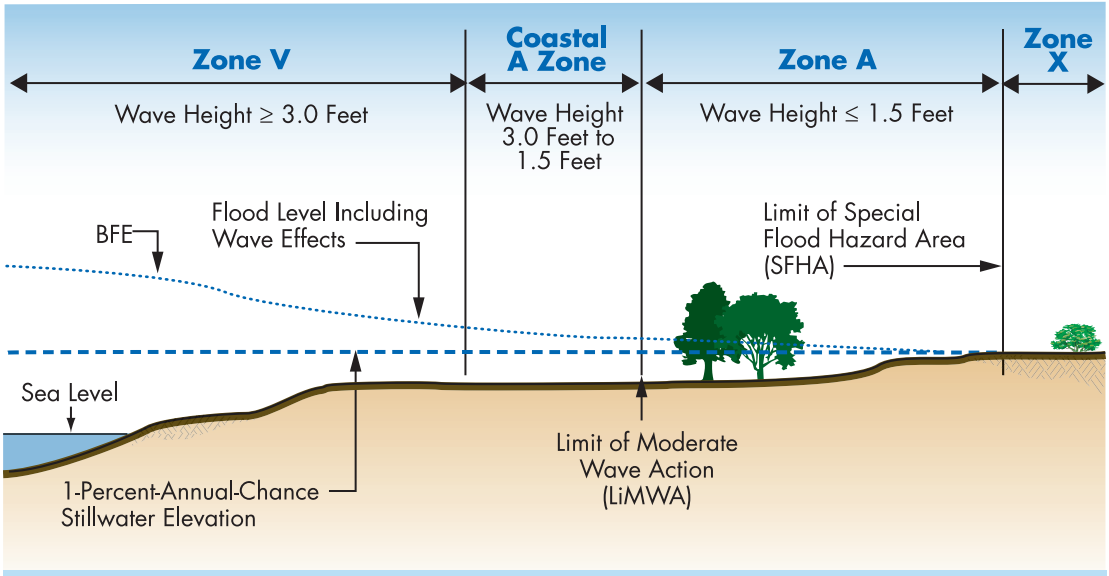
For assistance determining BFEs, contact community planning, engineering or permit offices or water management districts. Useful guidance for local officials and engineers is found in FEMA 265, *Managing Floodplain Development in Approximate Zone A Areas*.

**Terms and Definitions**

An **Approximate Zone A** is a special flood hazard area where BFE information is not provided.

If data are not available from another source, and provided there is no evidence indicating flood depths have been or may be greater than two-feet deep, local officials may specify the BFE is two feet above the highest adjacent grade.

## Understanding the Coastal Floodplain



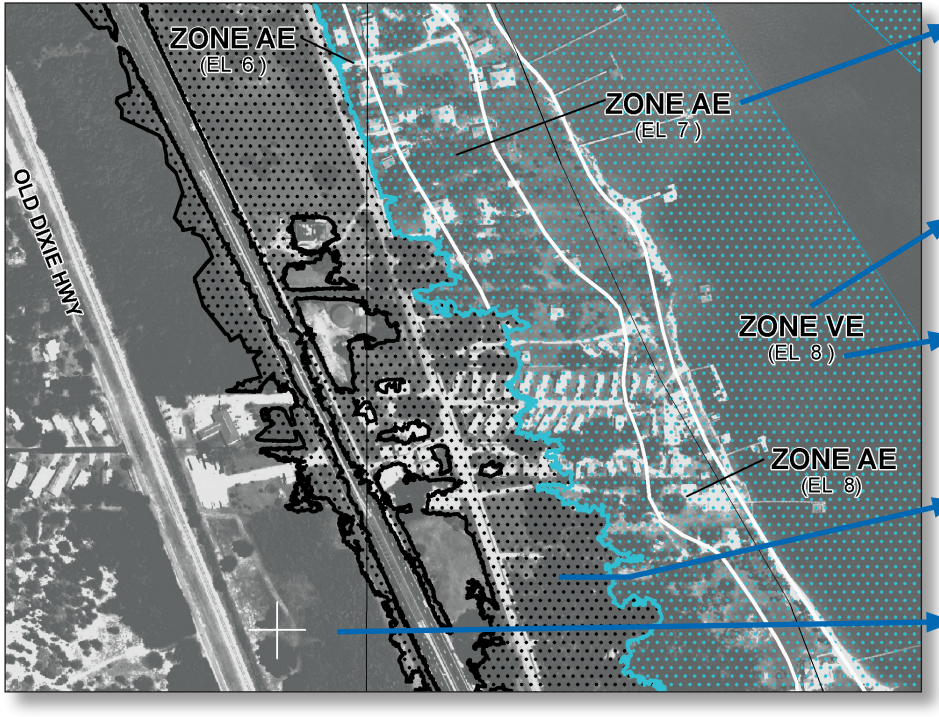

Areas subject to Coastal A Zone conditions (wave heights between 3 feet and 1.5 feet) may not be shown on FIRMs (see page 19). The Florida Building Code treats the CAZ area as Zone V and requires development to comply with the Zone V requirements.

### Terms and Definitions

The **Coastal High Hazard Area (Zone V)** is the Special Flood Hazard Area that extends from offshore to the inland limit of a primary frontal dune along an open coast and any other area subject to high velocity wave action. The area is designated on the FIRM as Zone VE.

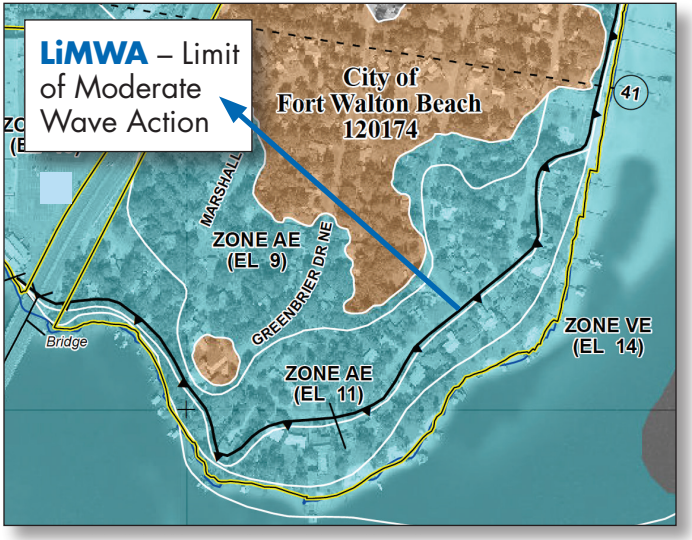
The term **Coastal A Zone (CAZ)** refers to a portion of the SFHA landward of a Zone V or landward of an open coast without Zone V. CAZs may be subject to breaking waves between 3 and 1.5 feet high.

## Flood Insurance Rate Map (Coastal)




1. **Zone AE** is subject to flooding by the base or 1% annual chance (100-year) flood, and waves less than 3 feet high, (formerly Zones A1-A30).
2. **Zone VE** is where wave heights are expected to be 3 feet or more.
3. **Base Flood Elevation (BFE)** is the water surface elevation (in feet above the vertical datum shown on the map).
4. **Shaded Zone X** is the 0.2% annual chance (500-year) floodplain (formerly Zone B).
5. **Unshaded Zone X** is the area of minimal flood risk outside the 0.2% annual chance (500-year) floodplain (formerly Zone C).

# The Coastal A Zone (CAZ)




**Legend**

Limit of Moderate Wave Action

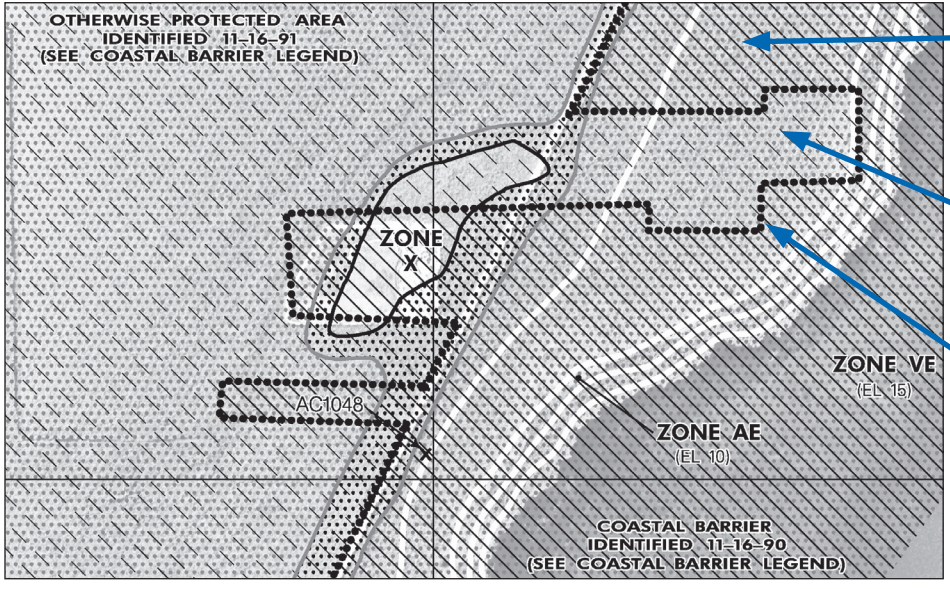
**Notes to Users**

AE Zone has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than, those in the VE Zone.

- Post-flood evaluations and laboratory tests confirm that breaking waves as small as 1.5 feet high cause damage to walls and scour around foundations.
- The Limit of Moderate Wave Action may be shown on revised FIRMs to delineate the inland extent of Coastal A Zone conditions inland of Zone V or along shorelines without Zone V.
- Scour and erosion should be considered in CAZ if soils are sandy and erodible.
- Federal flood insurance in CAZs is rated using Zone A rates (lower than Zone V rates).

If a LiMWA is delineated or a community designates a CAZ, the Florida Building Code requires buildings to comply with Zone V construction requirements.

## Coastal Barrier Resource System (CBRS)




1. Coastal Barrier Resources System (CBRS) Areas
2. Otherwise Protected Areas (OPAs)
3. CBRS and OPA Boundary

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

FIRMS show CBRS and OPA areas in undeveloped Coastal Barrier Resource System Areas. In these areas, NFIP insurance is not available for new construction and substantially improved structures built after October 1, 1983 or after the date the areas were designated.

## Florida's Coastal Construction Control Line (CCCL)

The Department of Environmental Protection's Coastal Construction Control Line (CCCL) program is an essential element of Florida's coastal management program. The CCCL:

- **Provides protection** for Florida's beaches and dunes while assuring reasonable use of private property
- **Establishes areas in which special siting and design criteria** are applied for construction and related activities
- **Allows activities** that will not cause significant adverse impacts to the beach and dune system – local permits generally required.

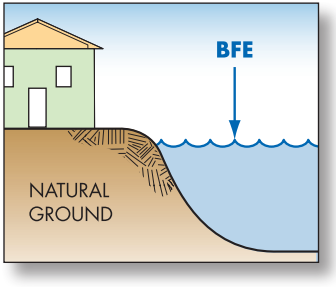
The Florida Building Code Section 3109 contains CCCL requirements for the design and construction of buildings (see page 34). Those requirements are similar to the code requirements for buildings in coastal high hazard areas (Zone V).

**Alert!** Code officials and design professionals are required to comply with the building code requirement for both the CCCL and flood hazard areas and must ensure that the more restrictive provisions prevail.

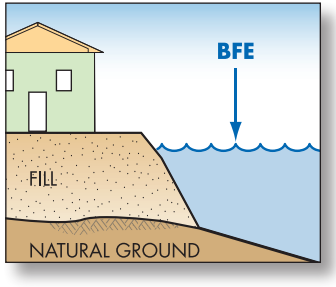
www.dep.state.fl.us/beaches/programs/ccclprog.htm

## FIRM Revisions: LOMAs and LOMR-Fs

The most accurate information available is used to make flood maps, including topographic base maps and detailed engineering methods or methods of approximation. FEMA issues map revisions if technical data are submitted to support the changes.




**Letter of Map Amendment (LOMA)** is an official amendment to an effective FIRM that may be issued when a property owner provides additional technical information from a Florida licensed professional surveyor, such as ground elevation relative to the BFE. Lenders may waive the flood insurance requirement if the LOMA removes a building site from the SFHA because natural ground at the site is above the BFE.



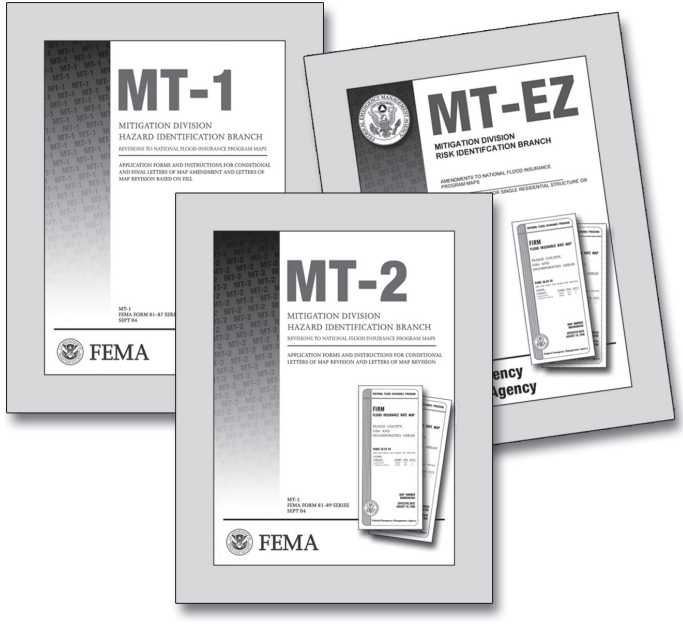

**Letter of Map Revision Based on Fill (LOMR-F)** is an official revision to an effective FIRM that is issued to document FEMA's determination that a structure or parcel of land has been elevated by fill above the BFE, and therefore is no longer in the SFHA. Lenders may waive the insurance requirement if the LOMR-F removes a building site from the SFHA.

Check www.fema.gov/letter-map-amendment-letter-map-revision-based-fill-process for guidance on maps revisions. Access to FEMA's web-based application for licensed land surveyors to submit eLOMAs is hazards.fema.gov/femaportal/resources/whatiseloma.htm.

## FIRM Revisions: CLOMRs and LOMRs

- **Conditional Letter of Map Revision (CLOMR)** comments on whether a proposed project, if built as shown on the submitted documentation, would meet the standards for a map revision. Communities should require this evidence prior to issuing permits for fill or alteration of a watercourse. Certificates of Occupancy/Compliance should be withheld until receipt of the final LOMR based on "as-built" documentation and certification.

- **Letter of Map Revision (LOMR)** is an official revision to an effective FIRM that may be issued to change flood insurance risk zones, special flood hazard areas and floodway boundary delineations, BFEs and/or other map features. Lenders may waive the insurance requirement if the approved map revision shows buildings to be outside of the SFHA.



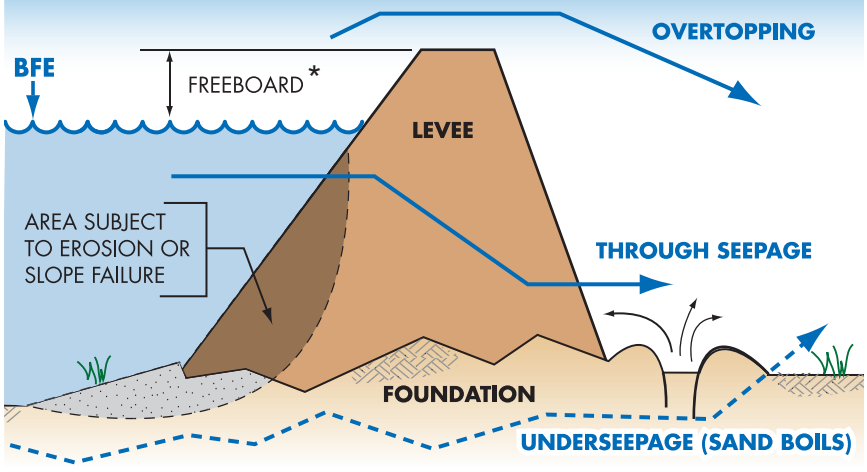

To learn more and download forms, find links by searching key words "MT-EZ," "MT-1," and "MT-2."

## Levee Certification for FIRMs

Many levees are designed to protect land against flooding from the Base Flood. In order for FEMA to show those areas as outside of the Special Flood Hazard Area, communities and levee owners must certify that levees meet certain design criteria. Certification will present significant challenges during the map revision process.

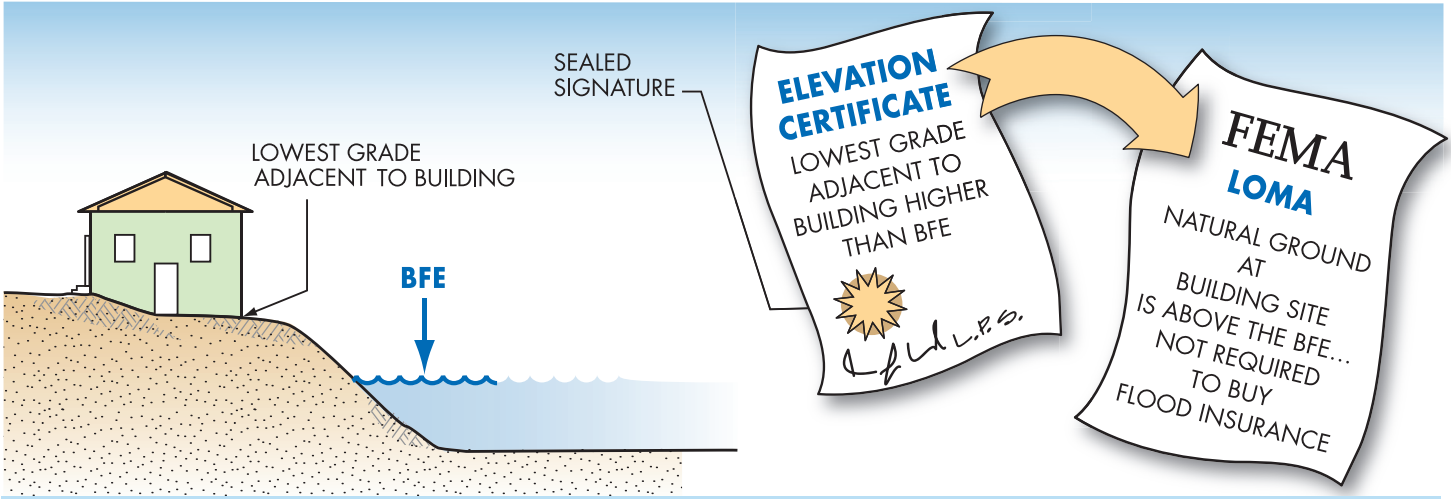
Communities that have levees should determine as soon as possible whether certification will be required. Pursuant to FEMA's Procedural Memoranda 34 and 43, and as outlined in Federal regulations at 44 CFR Section 65.10, the documentation requirements address:

- Freeboard
- Closures
- Embankment protection for erosion
- Embankment and foundation stability
- Settlement
- Interior drainage and seepage
- Operation and maintenance plans
- Other site specific criteria




* Freeboard is the distance between the BFE and the top of the levee; for FEMA accreditation freeboard is usually 3 feet

## Are Building Sites Higher than the BFE?




If land is shown on the map as "in" the SFHA, but the building site is higher than the Base Flood Elevation (BFE)… get a Florida licensed professional surveyor to complete a FEMA Elevation Certificate (EC). Submit a request for a Letter of Map Amendment to FEMA along with the EC to verify that the structure is above the BFE (see page 22). If FEMA approves the request, lenders are not required to require flood insurance policies, although some may still require them. Owners should keep certificates and LOMAs with deeds— the documentation will help future buyers.

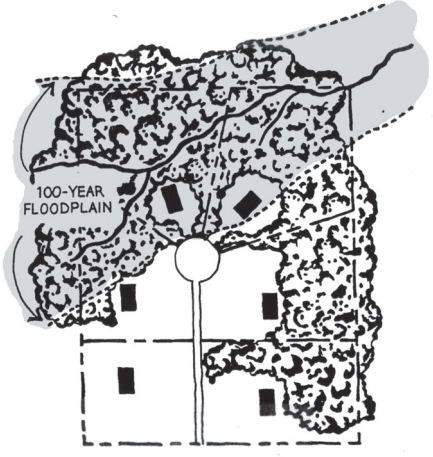
## Activities in SFHAs that Require Local Permits and Approvals

- Construction of new buildings
- Additions to buildings
- Substantial improvements of buildings
- Renovation of building interiors
- Repair of substantially damaged buildings
- Placement of manufactured (mobile) homes
- Subdivision of land
- Construction or placement of temporary buildings and accessory structures
- Construction of agricultural buildings
- Construction of roads, bridges, and culverts
- Placement of fill, grading, excavation, mining, and dredging
- Alteration of stream channels




Floodplain development or building permits must be obtained before these and **ANY** land-disturbing activities occur in flood zones.

## Avoid Flood Area When Possible

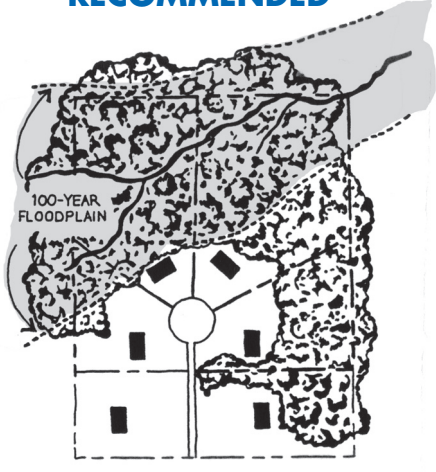



All land subdivided into lots, some homesites and lots partially or entirely in the floodplain.

**NOT RECOMMENDED**

All land subdivided into lots, some lots partially in the floodplain, setbacks modified to keep homesites on high ground.

**RECOMMENDED**







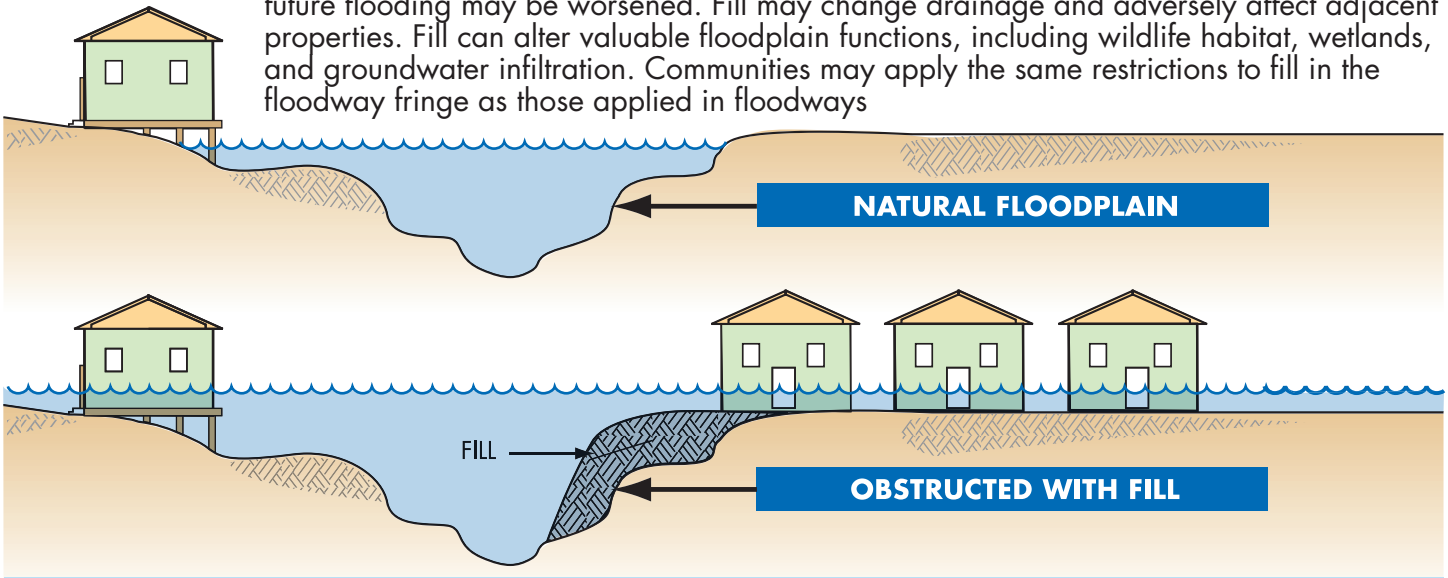
Floodplain land put into public/ common open space, net density remains, lot sizes reduced and setbacks modified to keep homesites on high ground.

**RECOMMENDED**

Let the floodplain perform its natural function – if possible, keep it as open space. Other compatible uses: recreational areas, playgrounds, reforestation, unpaved parking, gardens, pasture, and created wetlands.

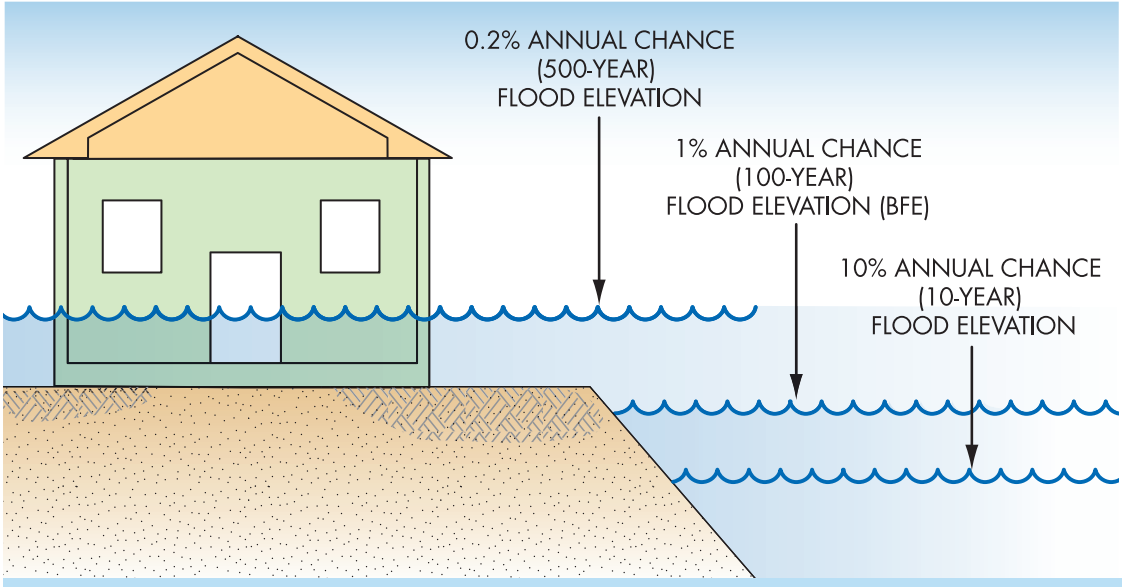
## Fill Can Adversely Affect Floodplain Functions

Floodplains are supposed to store floodwater. If storage space is blocked by fill material, future flooding may be worsened. Fill may change drainage and adversely affect adjacent properties. Fill can alter valuable floodplain functions, including wildlife habitat, wetlands, and groundwater infiltration. Communities may apply the same restrictions to fill in the floodway fringe as those applied in floodways




Communities should make sure fill in flood zones won't harm neighboring properties. Before deciding to use fill, property owners should check with local planning, engineering, or permit offices. Engineering analyses may be required to demonstrate that fill will cause "no rise" (see page 13).

## Floods Don't Always Stop at the BFE



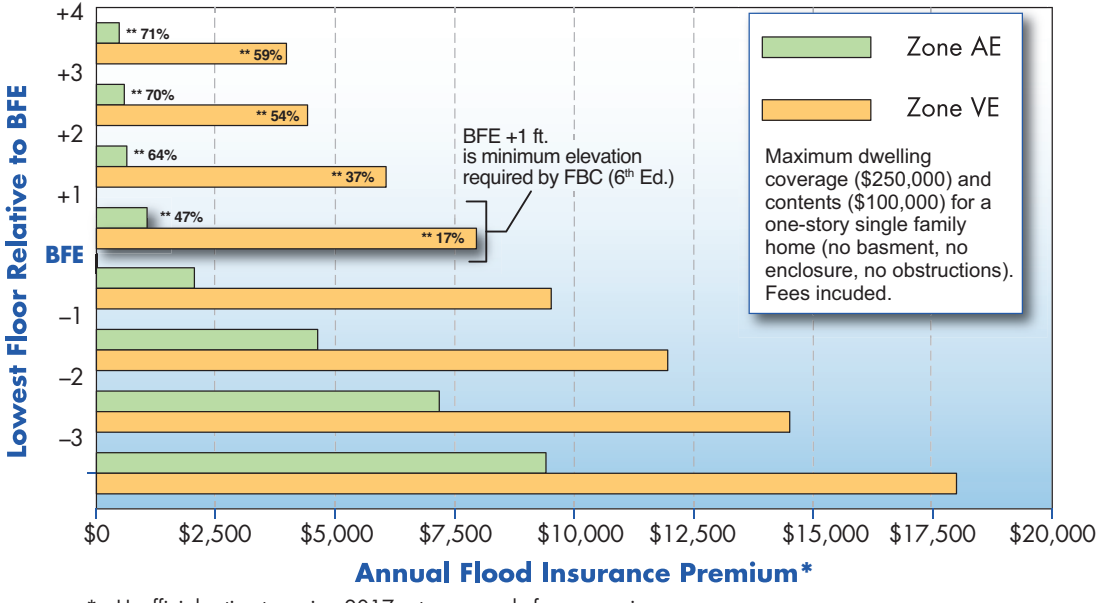

**Important Information**

Many people don't understand just how risky building in flood zones can be. There is a greater than 26% chance that a non-elevated home in the SFHA will be flooded during a 30-year mortgage period. The chance that a major fire will occur during the same period is less than 5%!

**CAUTION!** Major storms and flash floods can cause flooding that rises higher than the Base Flood Elevation (BFE). Be safer – protect your home or business by avoiding flood zones or building higher. See page 30 to see how this will save you money on flood insurance.

## Freeboard: Build Higher, Reduce Damage, Save on Insurance

Freeboard is additional height – a factor of safety – above the BFE. Buildings that are higher than the BFE experience less damage. Starting with the 6th Edition, the Florida Building Code requires all buildings to be elevated to at least BFE plus 1 foot. Owners of buildings elevated above the BFE also save on Federal flood insurance.




* Unofficial estimates using 2017 rates; use only for comparison purposes

** Savings over at-BFE premium

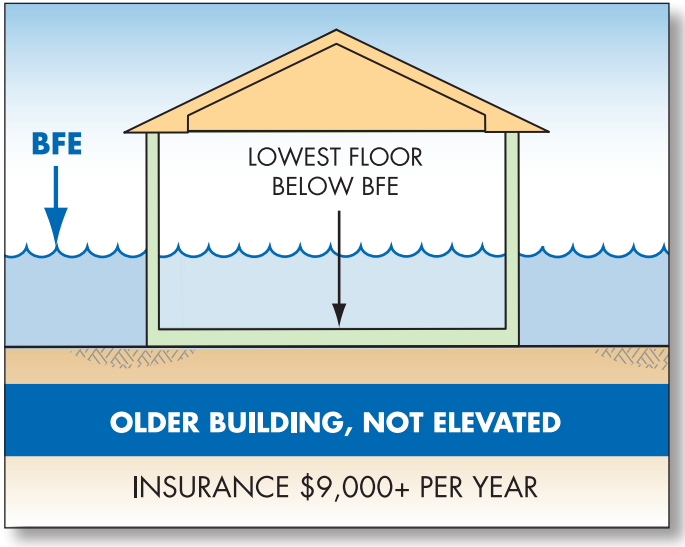
### Important Information

**NOTE!** Flood insurance rates and various fees change from time to time. Rather than specific costs for insurance, these figures give a feel for how much difference just a foot or two can make.

**Remember!** Builders must submit floor elevations as part of foundation inspections. An error of just 6 or 12 inches could more than double the cost of Federal flood insurance.

A community may be able to grant a variance, but the owner will probably be required to buy insurance. Imagine trying to sell a house if the bank requires insurance that costs more than $9,000 to $18,000 a year!

## Variances From Elevation Requirements




Very specific conditions related to the property (not the owner's actions or preferences) must be satisfied to justify a variance:

- Good and sufficient cause
- Unique site conditions
- Non-economic hardship
- If in the floodway, no increase in flood level

A variance that allows construction below the BFE does not waive the lender's flood insurance requirement. Flood insurance will be very expensive – perhaps more than $9,000 to $18,000 per year (see page 30)!

Property owners and communities must carefully consider the impacts of variances to allow buildings below the BFE. Not only will buildings be more likely to sustain flood damage, but Federal flood insurance will be very costly. Communities with a pattern of granting variances may be subject to NFIP sanctions, costing all insurance policyholders even more.

## Fundamentals of Flood Resistant Construction

The flood resistant construction requirements of the NFIP and the Florida Building Code (FBC) share the common objective of increasing resistance to flooding. Although there are some differences between specific requirements, they all include the following fundamentals – buildings should have:

- **Foundations** capable of resisting flood loads (including dry floodproofed nonresidential buildings)
- **Structurally sound walls and roofs** capable of minimizing penetration by wind, rain, and debris
- **Lowest floors elevated** high enough to prevent floodwaters from entering during the design event
- **Equipment and utilities** elevated or designed to remain intact and be restored easily
- **Enclosures below elevated floors** limited to parking, limited storage, and building access and are designed to minimize damage
- **Flood damage-resistant materials** used below elevated lowest floors

In short ... flood resistant buildings!

## Flood Provisions of the Florida Building Code




Starting with the 2010 edition, the Florida Building Code (FBC) includes flood provisions that meet or exceed the NFIP requirements for buildings and structures. All counties, cities and towns are required to enforce the FBC. Many Florida communities enforce some "higher standards" than those required by the FBC.

- **FBC, Building:** Flood provisions are primarily in Section 1612 Flood Loads, which refers to the standard *Flood Resistant Design and Construction* (ASCE 24). Table 1612.1 shows cross references to all of the flood provisions in all of the Florida codes.
- **FBC, Residential:** Flood provisions are primarily in Section R322 Flood-Resistant Construction, although there are requirements in several other sections.
- **FBC, Existing Building:** Flood provisions are found in sections on repairs, alterations, additions, and historic structures and in sections on prescriptive and performance compliance methods.
- **FBC, Plumbing, Mechanical, Fuel Gas:** Flood provisions are in a number of sections.

Excerpts of the flood provisions of the FBC, "Highlights of ASCE 24," and other building code resource materials are available online www.floridadisaster.org/Mitigation.

## New Flood Requirements in the 6th Edition of FBC

Significant changes included in the 6th Edition FBC:

- **Requires Freeboard.** Minimum BFE plus 1 foot for dwellings in all flood zones
- **Coastal A Zone.** If delineated, regulated like Zone V with stemwalls permitted
- **Flood Openings.** Required in all walls, including breakaway walls, and performance of engineered flood openings emphasized
- **Exterior Door.** Required at top of stairways enclosed by breakaway walls
- **Critical Facilities.** Elevated or protected to the higher of BFE plus 2 feet or 500-year flood elevation
- **Local Scour and Erosion.** Must be considered for foundations in Zone V and CAZ
- **Mixed Use.** Defined in ASCE 24 commentary for limitations on dry floodproofing nonresidential portions of mixed use buildings



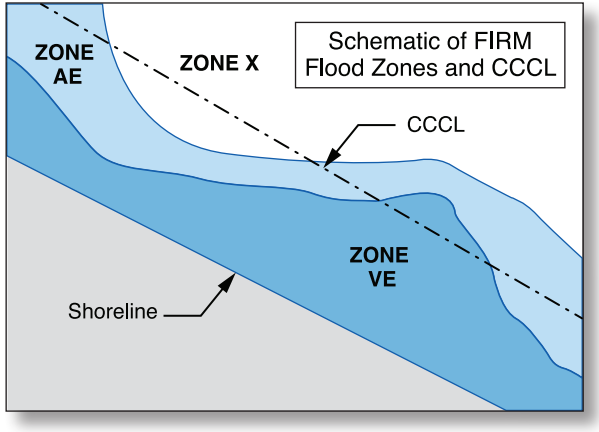

Visit
www.buildingasaferflorida.org
to download fact sheet summaries of the flood resistant construction requirements and CCCL requirements of the Florida Building Code

## CCCL Requirements in the Florida Building Code (6th Ed.)

The CCCL requirements in the FBC, Section 3109, were modified from previous editions to align more closely with the Coastal High Hazard Area (Zone V) requirements of Section 1612, which refers to ASCE 24. This minimizes variations in case-by-case interpretations to determine which requirements are more restrictive.

The Florida Division of Emergency Management worked with the Florida Department of the Environment Protection to modify Section 3109 which:

- Applies to habitable structures (a defined term) and retains statutory exemptions, while clarifying Section 1612 applies to all buildings and structures and exemptions in flood zones
- Requires use of the BFE or the FDEP 100-year storm elevation, whichever is higher
- Uses the Section 1612 definitions for substantial improvement and lowest floor
- Uses the ASCE 24 requirements for breakaway walls and permits elevator shafts and shear walls (with limitations)
- Limits uses of enclosures below the BFE to parking, storage, and building access, but permits other defined "allowed uses" in areas that are above the BFE and below the DEP 100-year storm elevation
- Permits non-breakaway structural slabs below the lowest floor provided the slabs are designed to withstand flood loads



## Some Key Floodplain Development Permit Review Steps

The permit reviewer must check many things. Some of the key questions are:

- Is the site near a watercourse?
- Is the site in the mapped flood zone or floodway?
- Are applicants advised that other State or Federal permits must be obtained before work starts?
- Is the site reasonably safe from flooding?
- Does the site plan show the flood zone, Base Flood Elevation and building location?
- Is substantial improvement or repair of substantial damage proposed?
- Is an addition proposed?
- Will new buildings and utilities be elevated properly?
- Will manufactured homes be properly elevated and anchored?
- Do the plans show an appropriate and safe foundation?
- Are all required design certifications submitted?
- Will the owner/builder have to submit an as-built Elevation Certificate?



## Carefully Complete the Permit Application

Owner's Name
David & Sally Jones

Site Address, Tax#, Parcel #
781 orange blossom Ct., 400-33A-002

**A. Description of Work**

1. Proposed Development Description:

- [x] New Construction
- ❑ Alteration or Repair
- [x] Filling
- ❑ Grading
- ❑ Dredging
- ❑ Manufactured/Modular
- ❑ Logging
- ❑ Other

**2. Size and Location of Development:**

single family (2,000 cu yds. fill); flood fringe of dry river

**3. Type of Construction**

- [x] New Residential
- ❑ New Non-Residential
- ❑ Addition
- ❑ Improvement
- ❑ Renovation
- ❑ Accessory Structure
- ❑ Temporary

Applicant's Signature
David M. Jones

### Part of a sample Flood Zone Permit Application

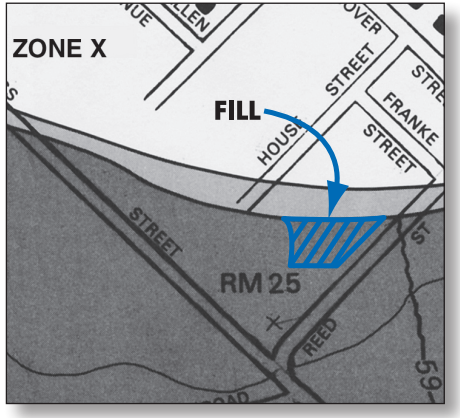
(may vary by community)

**Community Map and Elevation Data:**

1. Community No. 120243
2. Panel No. 125C
3. Zone AE
4. Base Flood Elevation 59.2
5. Floodway ❑ Yes [x] No
6. Required Lowest Floor Elevation (including basement) 60.2
7. Elevation to which all attendant utilities, including all heating, duct work, and electrical equipment will be installed or floodproofed 60.2

**Important Information**

You must get all permits **before** you do work in a flood zone.




Good information will lead to better construction and less exposure to future flood damage. Download a sample application form at www.floridadisaster.org/Mitigation (CRS Resources).

## Communities Must Retain Flood Records Permanently

Communities that participate in the NFIP agree to maintain certain documentation for all development in flood zones, including:

- Permits issued and variances granted
- Floodway encroachment (no rise) and watercourse alteration
- Design certifications for buildings in Zone V and CAZ, including breakaway walls
- Design certifications for dry floodproofed nonresidential buildings
- Design certification for engineered flood openings
- Determinations of whether work on existing buildings is substantial improvement or repair of substantial damage
- Surveyed "as-built" building elevations (Elevation Certificates)

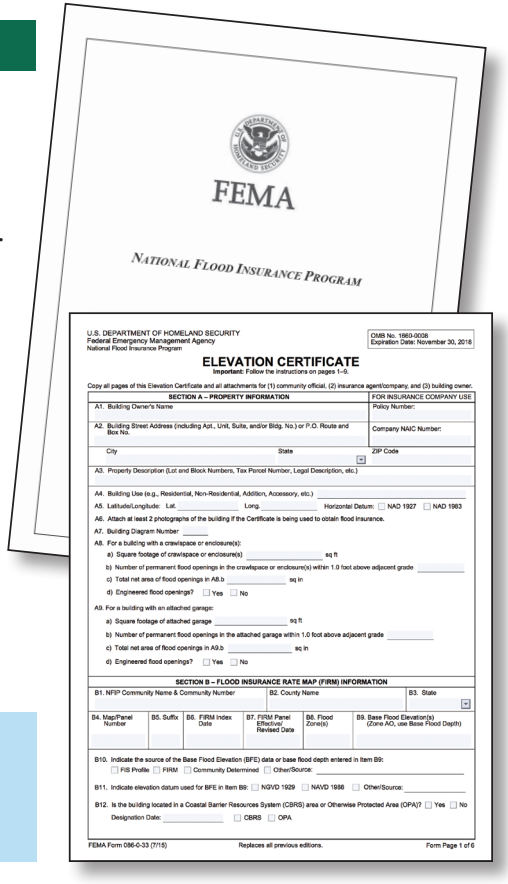


**Important Information**

Florida's *General Records Schedule GS1-SL For State and Local Government Agencies* requires permanent retention of records "documenting the authorization process for construction" including applications, maps, Elevation Certificates, and related documentation. CRS communities must maintain records related to recertification as last as they are active CRS participants.

## What is the Elevation Certificate and How is it Used?

- The Elevation Certificate (EC) is a FEMA form. Go to www.fema.gov and search for "Elevation Certificate."
- The EC must be completed and sealed by a Florida licensed surveyor.
- Community officials may complete the EC for sites in Approximate Zone A and Zone AO (see Section G of the EC).
- It can be used to show lowest grades adjacent to planned or existing building sites are above the Base Flood Elevation (see page 25).
- It is used to verify building and equipment elevations.
- Insurance agents use the EC to write and rate flood insurance policies.
- See page 71 for online Elevation Certificate training information


FEMA

NATIONAL FLOOD INSURANCE PROGRAM

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION | FOR INSURANCE COMPANY USE

A1. Building Owner's Name | Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. | Company NAIC Number:

City | State | ZIP Code

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)

A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: ☐ NAD 1927 ☐ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number _____

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s) _____ sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A8.b _____ sq in

d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:

a) Square footage of attached garage _____ sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A9.b _____ sq in

d) Engineered flood openings? ☐ Yes ☐ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name & Community Number | B2. County Name | B3. State |
|---|---|---|
| | | |

| B4. Map/Panel Number | B5. Suffix | B6. FIRM Index Date | B7. FIRM Panel Effective/ Revised Date | B8. Flood Zone(s) | B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) |
|---|---|---|---|---|---|
| | | | | | |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No
Designation Date: _____ ☐ CBRS ☐ OPA

FEMA Form 086-0-33 (7/15) Replaces all previous editions. Form Page 1 of 6

By itself, the EC cannot be used to waive the requirement to obtain flood insurance. See page 22 to learn about FEMA's Letter of Map Amendment process.

# Completing the Elevation Certificate

**SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)**

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

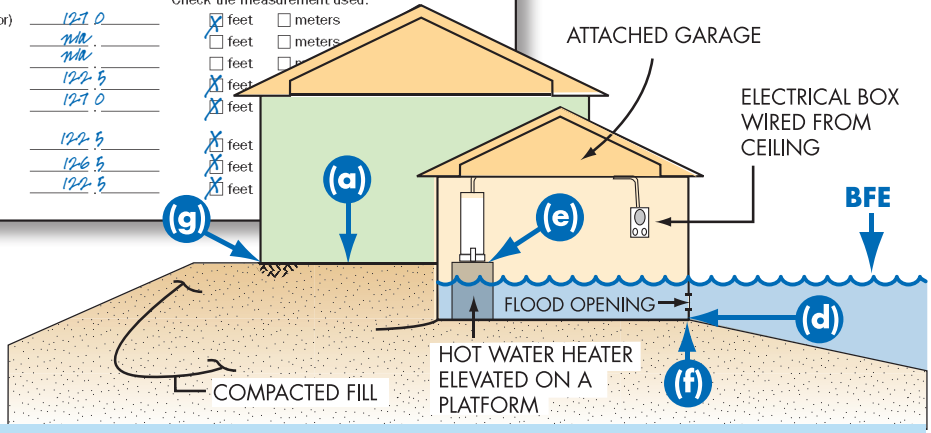
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: _____ Vertical Datum: _____

Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

| | | Check the measurement used. | |
|---|---|---|---|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | 127.0 | ☒ feet | ☐ meters |
| b) Top of the next higher floor | n/a | ☐ feet | ☐ meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | n/a | ☐ feet | ☐ meters |
| d) Attached garage (top of slab) | 122.5 | ☒ feet | ☐ meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) | 127.0 | ☒ feet | ☐ meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | 122.5 | ☒ feet | ☐ meters |
| g) Highest adjacent (finished) grade next to building (HAG) | 126.5 | ☒ feet | ☐ meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | 122.5 | ☒ feet | ☐ meters |

## ELEVATION CERTIFICATE (partial)




In this example, the BFE is 125.0 feet.

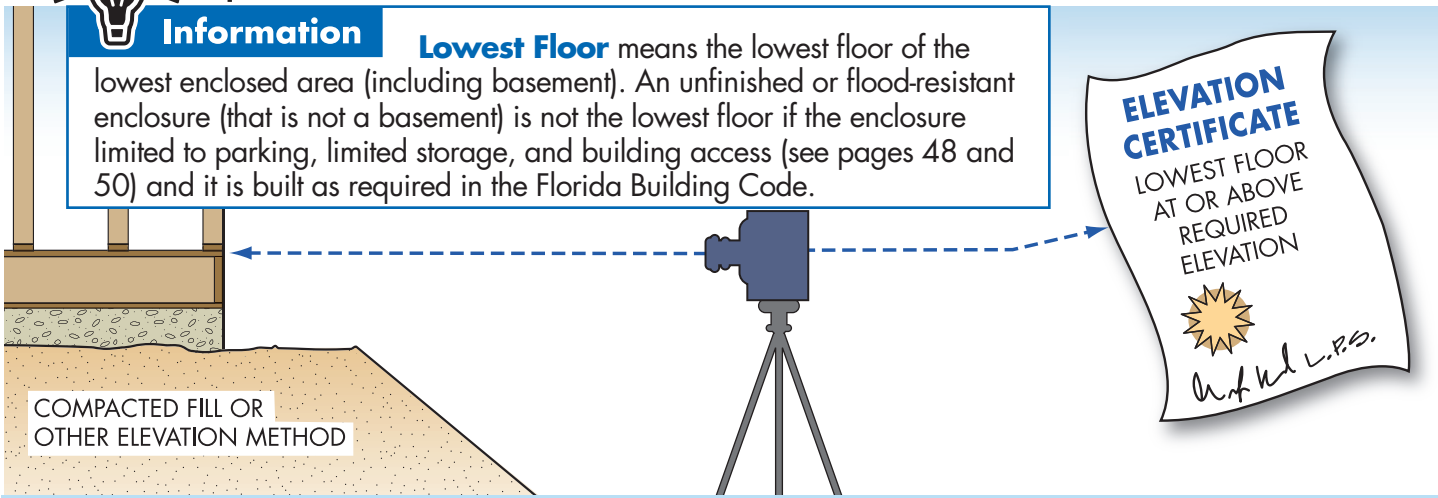
The slab-on-grade house was elevated on fill 2 feet above the BFE; the garage is 2.5 feet below the BFE (with flood openings).

The FBC requires submission of elevation documentation two times, when the lowest floor is set and prior to further vertical construction and again prior to the final inspection. A Florida licensed professional surveyor must fill out and seal the EC form (except in zones without BFEs). The EC includes diagrams for different building types. Several points must be surveyed.

## Paperwork is Important for Owners

**Important Information**

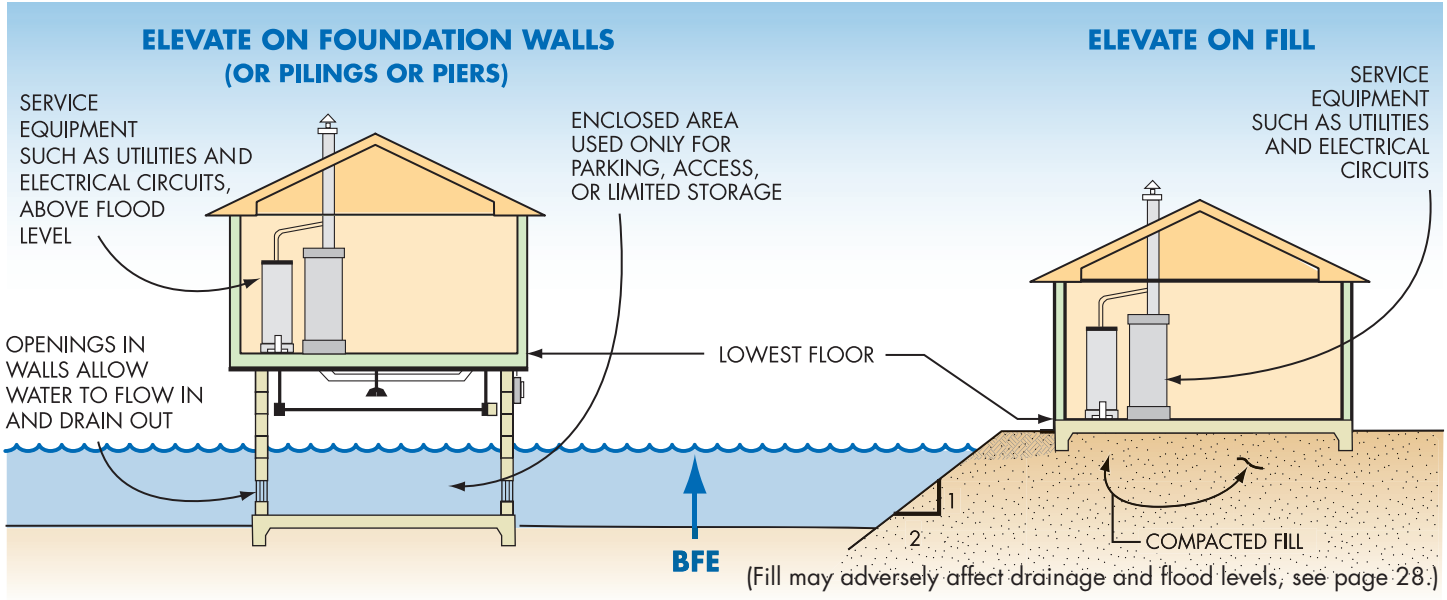
**Lowest Floor** means the lowest floor of the lowest enclosed area (including basement). An unfinished or flood-resistant enclosure (that is not a basement) is not the lowest floor if the enclosure limited to parking, limited storage, and building access (see pages 48 and 50) and it is built as required in the Florida Building Code.




Permittees must submit Elevation Certificates after the lowest floor (or lowest horizontal structural member) is placed and prior to further vertical construction. When construction is finished, another Elevation Certificate ("as-built") must be submitted prior to the final inspection.

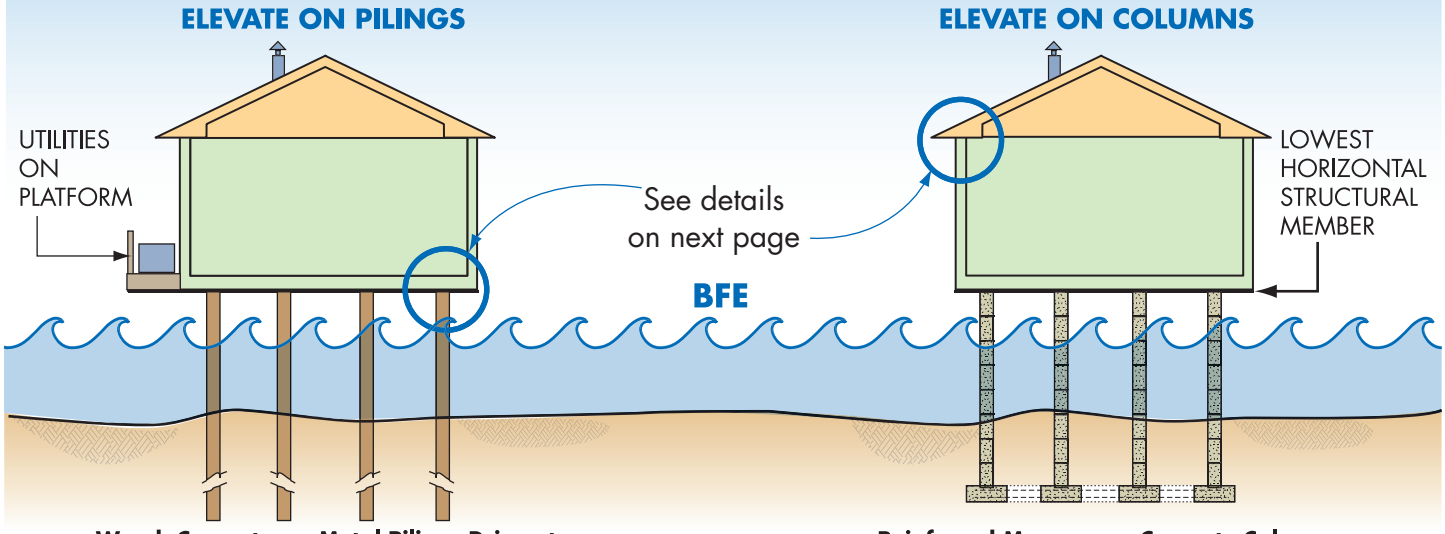
Owners should keep Elevation Certificates in a safe place. They can be used to demonstrate buildings were compliant at the time of construction. Also, Elevation Certificates are required to obtain Federal flood insurance policies.

# How to Elevate Buildings in Flood Zone A/AE



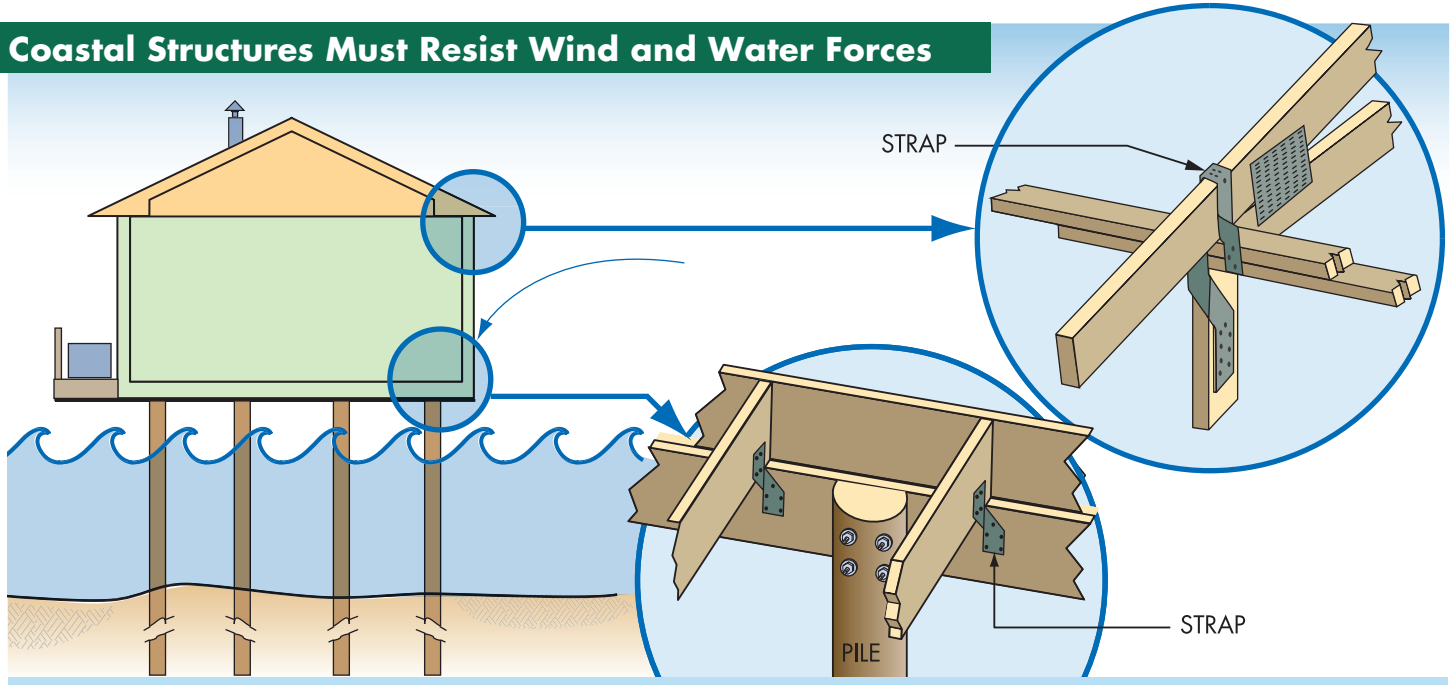

**CAUTION!** Enclosures (including crawlspaces) have some special requirements (see pages 48 and 50).
Note: When the walking surface of the lowest floor is at the BFE, under-floor utilities are not allowed.
Fill used to elevate buildings must be placed properly (see pages 28 and 46).

## How to Elevate Buildings in Flood Zone V and CAZ



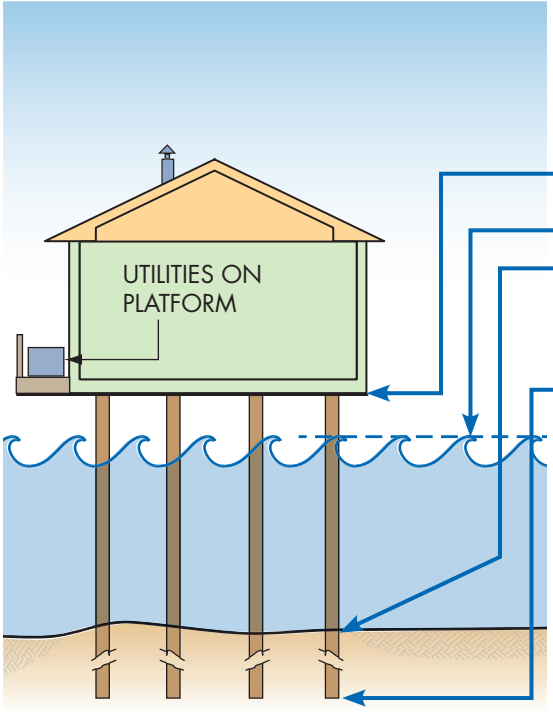

In Zone V and CAZ, the design specifics will be determined by an architect or engineer based on the site, including how the building will be elevated and how deep the foundation elements will be in the ground. A *Zone V Design Certificate* or statement will be required (see page 45). For more information, see FEMA P-55, *Coastal Construction Manual*.

## Coastal Structures Must Resist Wind and Water Forces




Coastal buildings may be exposed to hurricane winds, waves, and floodwater. Structural building components must be connected together to transfer forces in a continuous load path from the roof to the foundation and the ground. The details above are some examples of how this is done. An architect or engineer must determine the types of connections required for the roof, building, and foundation.

# The Zone V Design Certificate




## ZONE V DESIGN CERTIFICATE (Partial)

### SECTION II: Elevation Information Used for Design

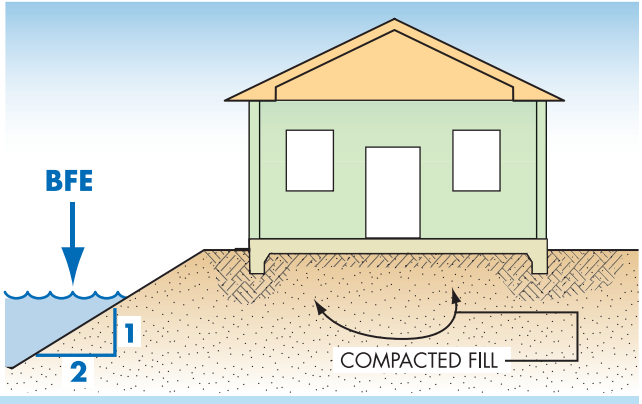
1. Datum..... ☐ NGVD ☒ NAVD ☐ Other
2. Elevation of the Bottom of Lowest Horizontal Structural Member ..... 14 feet above datum
3. Base Flood Elevation (BFE)..... 12 feet above datum
4. Elevation of Lowest Adjacent Grade ..... 6 feet above datum
5. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... 3 feet
6. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... 16 feet

A Florida licensed engineer or architect must review and/or prepare the building design and complete a *Zone V Design Certificate* for any new construction, substantial improvement, or the repair of a substantially damaged structure. This form is on the State Floodplain Management Office webpage (see page 70).

## Placement and Compaction of Fill in Zone A/AE

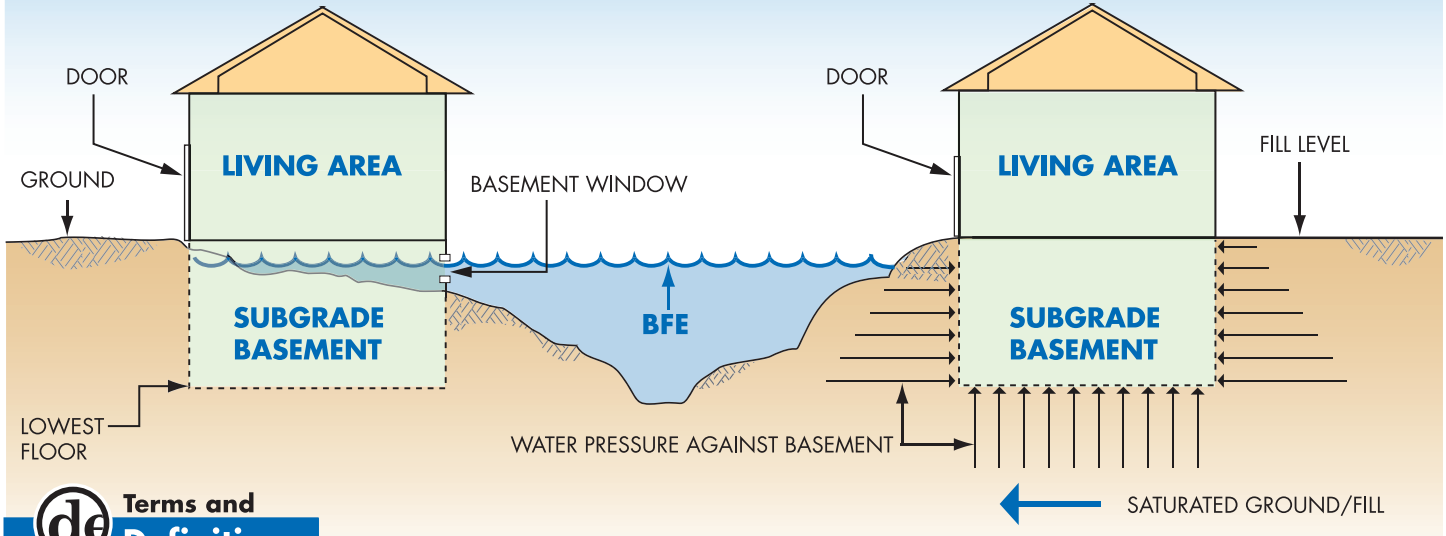
Earthen fill used to raise the ground above the flood elevation must be placed properly so that it does not erode or slump when water rises. For safety and to meet requirements, fill should:

- Not be placed in areas with poor drainage or where the fill may divert water onto adjacent properties. Instead, use perimeter walls, piers or pilings to minimize drainage problems.
- Be good clean soil, free of large rocks, construction debris, and woody material (stumps, roots)
- Be machine-compacted to 95 percent of the maximum density (determined by a design professional)
- Have graded side slopes that are not steeper than 2:1 (one foot vertical rise for every 2 feet horizontal extent); 3:1 flatter slopes are recommended
- Have slopes protected against erosion (vegetation for "low" velocities, durable materials for "high" velocities – determined by a design professional)
- Avoid the floodway (see page 12)




Engineers can find more information in FEMA's instructions for Letters of Map Revision based on Fill (FEMA Form MT-1) and NFIP Technical Bulletin #10.

## Basements in Flood Zones Are Unsafe




**Terms and Definitions**

A **basement** is any portion of a building that has its floor subgrade (below ground level) on all sides.

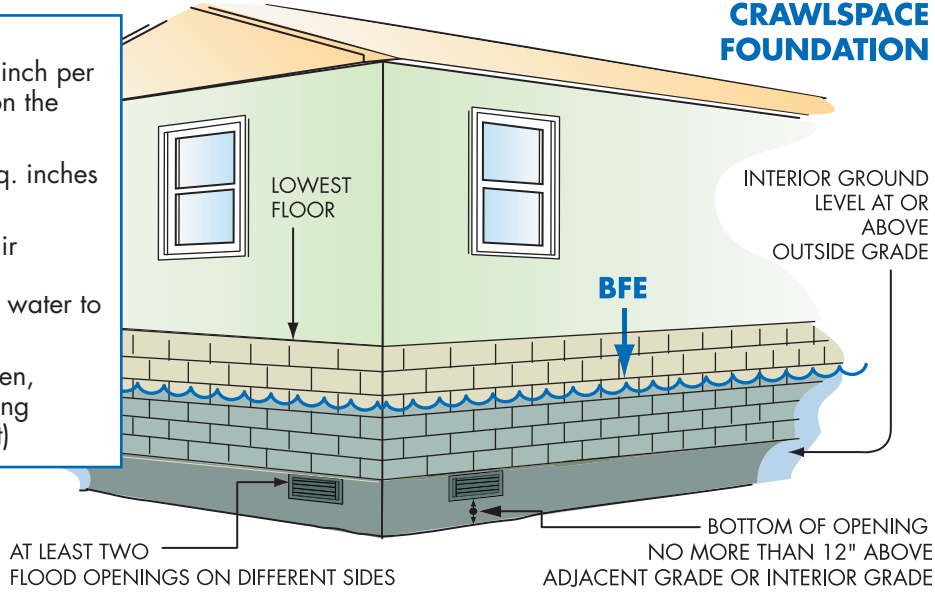
New buildings are not allowed to have basements below the BFE and Federal flood insurance coverage is very limited in existing basements for a very good reason. It only takes an inch of water over a door threshold or window sill and the entire basement fills up! Excavating a basement into fill doesn't always make it safe because saturated groundwater can damage the walls.

## Enclosures Below the Lowest Floor (Zone A/AE)

**NOTE:**

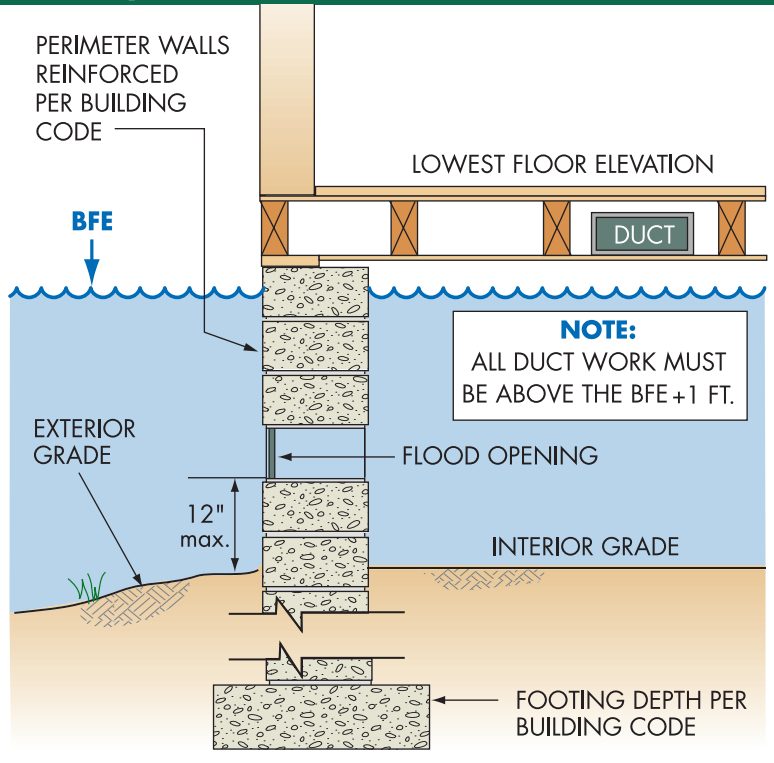
- Total net area of all openings is 1 sq. inch per sq. foot of enclosed area (measured on the outside)
- A 30' x 40' enclosure needs 1,200 sq. inches of openings
- If inserted in flood openings, typical air ventilation units must be permanently disabled in the open position to allow water to flow in and out
- A typical air ventilation unit, with screen, provides 42 to 65 sq. inches of opening (look for "net free area" stamp on unit)

**ALTERNATIVE:** Engineered openings are acceptable **if certified** to allow adequate automatic inflow and outflow of floodwater.



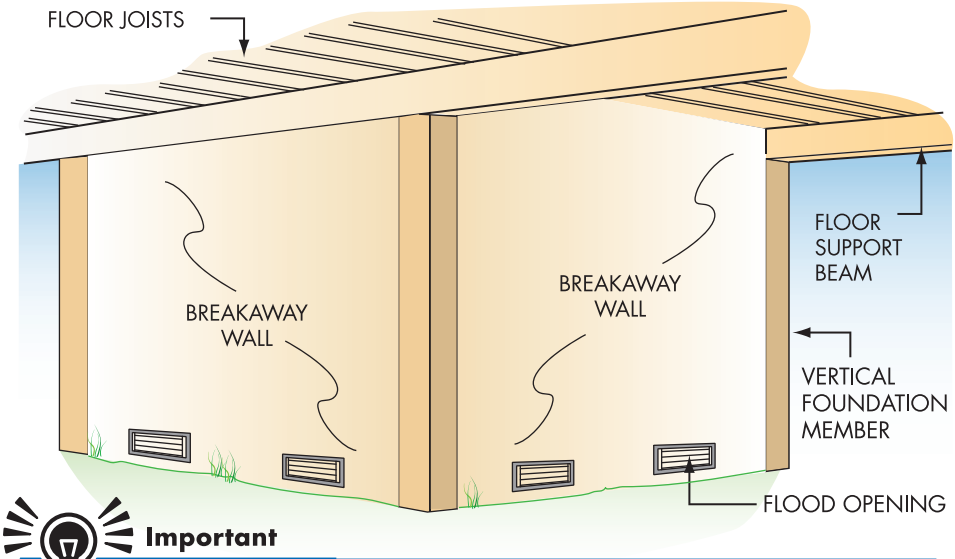

Solid perimeter wall foundations can enclose flood-prone space. A crawlspace is a good way to elevate just a couple of feet. The following are required: flood openings, elevated utilities, flood-resistant materials, and limitations on use.
See NFIP Technical Bulletin #1 *Openings in Foundation Walls and Walls of Enclosures.*

## Crawlspace Details (Zone A/AE)




- The FBC requires the Lowest Floor at or above BFE plus 1 foot. Florida recommends another foot or more for greater protection.
- All materials below the lowest floor must be flood resistant.
- Flood openings must provide 1 sq. in. of net open area for every sq. ft. of area enclosed by the perimeter walls – or certified engineered openings may be used.
- A 30' x 40' building needs 1,200 sq. in. of net opening (non-engineered).
- The bottom of flood openings must be no more than 12 inches above the higher of the interior and exterior grades.
- Standard air ventilation units must be permanently disabled in the "open" position to allow water to flow in and out.
- Interior grade must be equal to or higher than exterior grade on at least one side.

## Enclosures Below Zone V and CAZ Buildings




Enclosures under elevated buildings should be avoided. If small areas are enclosed, the FBC requires:

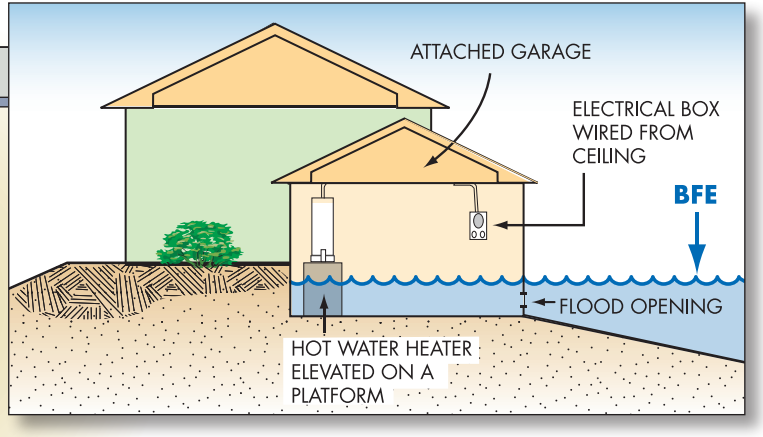
- Walls designed to collapse or "break away" under flood conditions and have flood openings
- Enclosures must be unfinished and made of flood resistant materials
- Utility wires and pipes must not go through or be attached to breakaway walls
- Enclosures must be used only for parking, limited storage, and building access (no bathrooms, recreation, or utility rooms)
- Minimal electric service for safety (light switch)

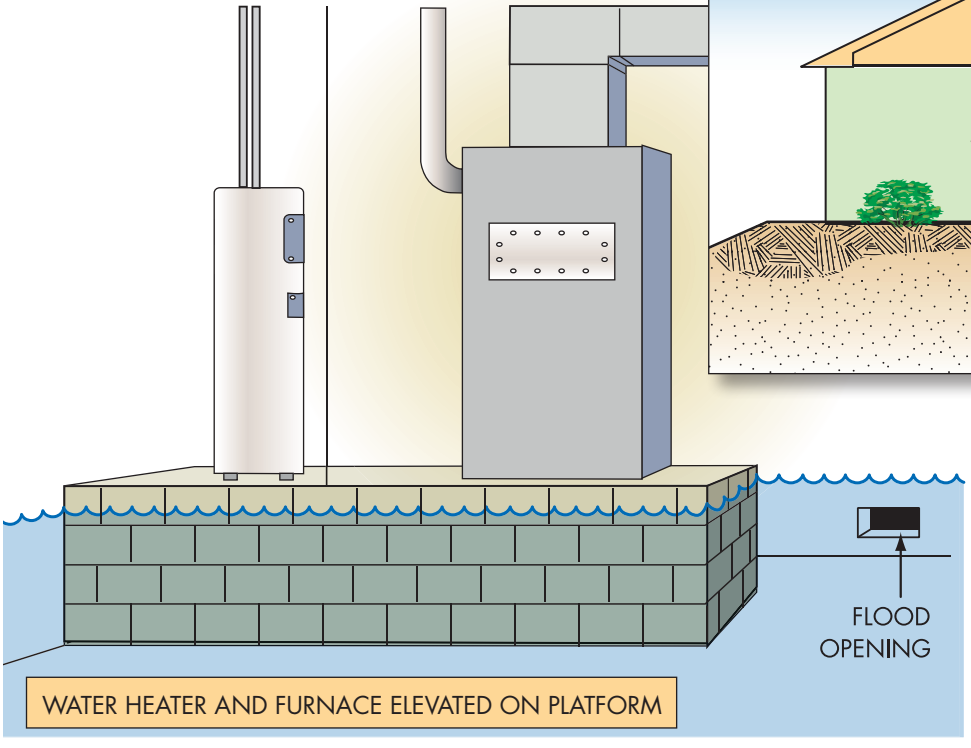
Enclosures larger than 299 sq. ft. may have higher insurance premiums.

**Important Information**

It is a violation of the FBC if enclosures below elevated buildings are modified or used for purposes other than parking, storage, and access. Not only will damage be increased during floods, but flood insurance policies will be more expensive.

## Utility Service and Equipment Inside Enclosures

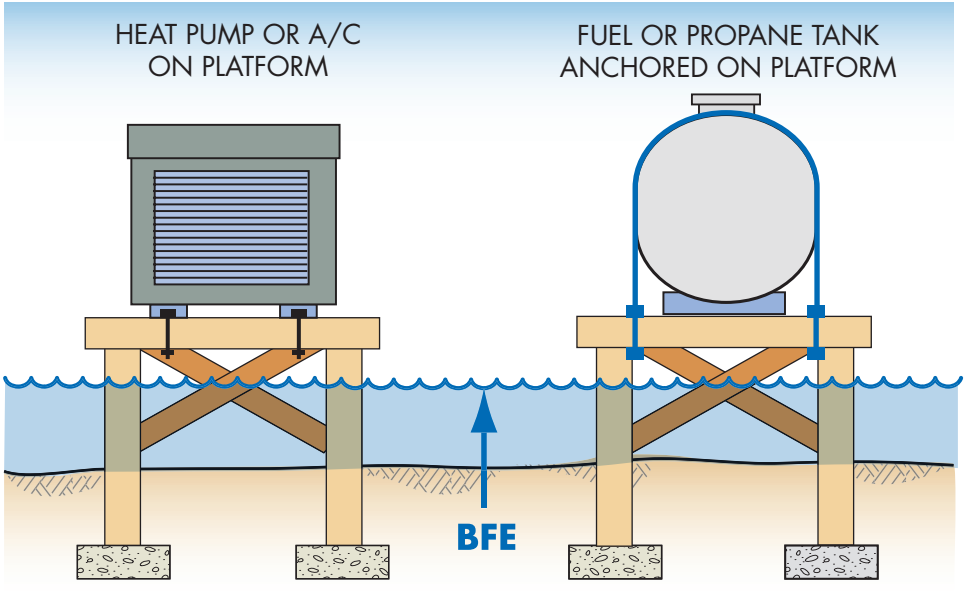



WATER HEATER AND FURNACE ELEVATED ON PLATFORM

Equipment (including duct work) must be elevated to or above the elevation required by the FBC. Utilities (plumbing, electrical, gas lines, heating, ventilating and air conditioning) must be elevated or designed and installed to prevent intrusion of floodwater into their components.

## Utility Service, Equipment, and Tanks




**Important Information**

Fuel and propane tanks may explode or release contents during flooding. Even shallow water can create large buoyant forces on tanks. In all flood zones tanks may be underground or elevated on platforms or columns. In Zone A/AE only, tanks may be at-grade and anchored to resist flood loads.

The FBC has requirements for tanks in ASCE 24 and in R322.2.4 (Zone A) and R322.3.3.7 (Zone V and CAZ).

Whether inside an attached garage or outside the building, all utilities and equipment must be elevated above required elevation or protected against flood damage. Utilities include plumbing, electrical components, gas lines, tanks, and heating and air conditioning equipment.

## Pools in Flood Hazard Areas

The type of flood zone and whether a pool is in-ground, above-ground, or a combination (perhaps with associated grading and fill) determine which requirements apply. The Florida Building Code has specific provisions:

- **Pools at private dwellings in flood Zone A/AE** have requirements only if the pool location is in a floodway or riverine flood hazard area where BFEs are specified but floodways have not been designated. [FBC Section R322.2.4]

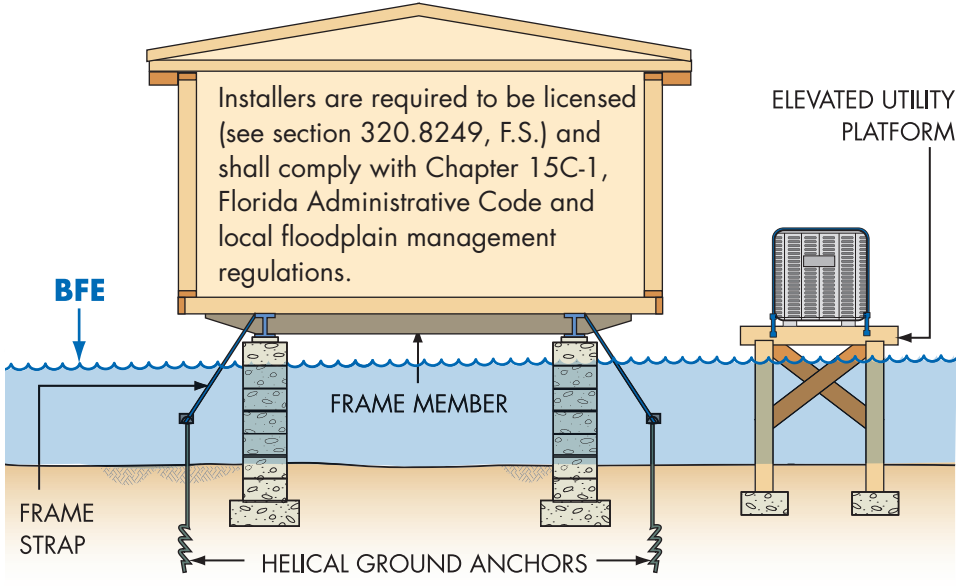
- **Pools at private dwellings in flood Zone V and CAZ** have more stringent requirements and must be designed in accordance with ASCE 24. [FBC Section R322.3.3.1]

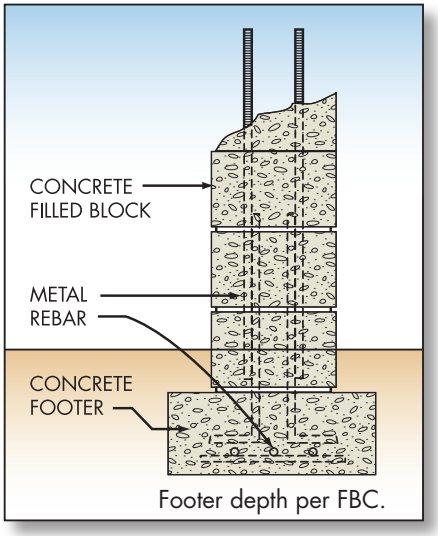
- **Public swimming pools and other private pools** must be designed to withstand all flood-related loads and load combinations. [FBC Sections 454 and 1612, which refers to ASCE 24]

- **Pool controls and equipment** must meet the requirements for utility service (see page 52).

For guidance on pools in Zone V and CAZ, see NFIP Technical Bulletin *5 Free-of-Obstruction Requirements* and FEMA P-499 *Home Builders Guide to Coastal Construction.*

## Manufactured Homes Require Special Attention



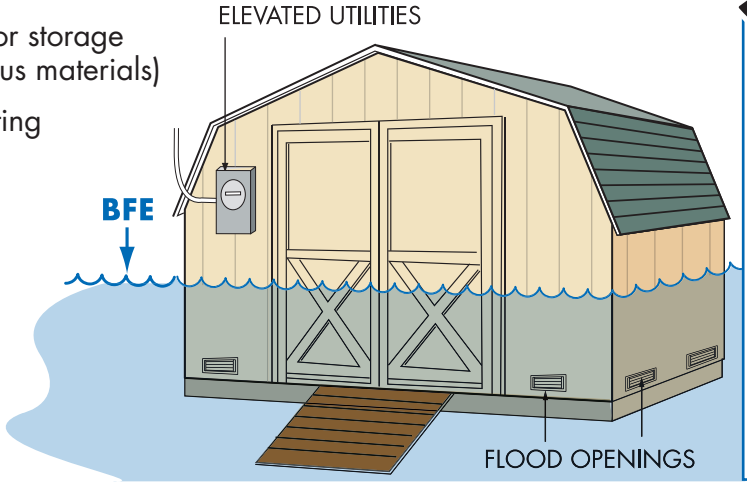

Experience shows that manufactured homes are easily damaged. Just a few inches of water above the floor can cause substantial damage.

Homes must be anchored to reinforced foundations to resist flotation, collapse, and lateral movement and must be tied down in accordance with community ordinances or the manufacturers' installation specifications for SFHAs. See guidance and some pre-engineered designs in FEMA P-85, *Protecting Manufactured Homes from Floods and Other Hazards*.

## Accessory Structures

If not elevated, accessory structures in flood zones must:

- Not be habitable
- Be used only for parking or storage (not pollutants or hazardous materials)
- Be anchored to resist floating
- Have flood openings
- Be built of flood damage-resistant materials
- Have elevated utilities
- Not be modified for different use in the future




**Terms and Definitions**

**Accessory Structure**, defined in the FBC, Residential, is a structure not greater than 3,000 square feet in floor area and not over two stories in height, the use of which is customarily accessory to and incidental to a dwelling and which is located on the same lot as a dwelling.

Even small buildings are "development" and permits or variances with noted conditions are required. They must be elevated or anchored and built to withstand flood damage.
**Caution!** Remember, everything inside will get wet when flooding occurs.

## Recreational Vehicles and Park Trailers

In Flood Zones, RVs and park trailers must:

- Be licensed and titled as an RV or park trailer (not as a permanent residence)
- Be built on a single chassis
- Must measure 400 sq.ft. or less (measured at largest horizontal projection)
- Have inflated tires and be self-propelled or towable by a light-duty truck
- Have no attached deck, porch, shed, or utilities
- Be used for temporary recreational, camping, travel or seasonal use (no more than 180 consecutive days)
- Have quick-disconnect sewage, water and electrical connectors



**Important Information**

**Camping near the water?**
Ask the campground or RV park operator about flood warnings and plans for safe evacuations.

RVs and park trailers that do not meet these conditions must be installed and elevated like manufactured homes, including permanent foundations and tie-downs (see page 54).

## Improvements and Repairs of Buildings in Flood Zones

Permits to improve and repair buildings are required. Local officials must:

- Review costs estimated in construction contracts or other cost estimates (including estimate market value of owner labor and donated labor and materials).
- Estimate the market value using property assessment records or use an independent assessment of market value performed by a licensed appraiser.
- Compare the cost of improvements and repairs to the market value of the building.
- Require buildings to be brought into full compliance if the costs equal or exceed 50% of the market value, called Substantial Improvement.
- Encourage owners to consider other ways to reduce future damage if the comparison is less than 50% (see page 65).

**Terms and Definitions**

**Substantial Improvement** means any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the start of construction of the improvement. This term includes structures which have incurred substantial damage from any cause (flood, fire, hurricanes, tornadoes, etc.), regardless of the actual repair work performed (see page 62). Some Florida communities track improvements over a period of time and trigger compliance when the cumulative improvement value equals or exceeds 50%.

**Important Information**

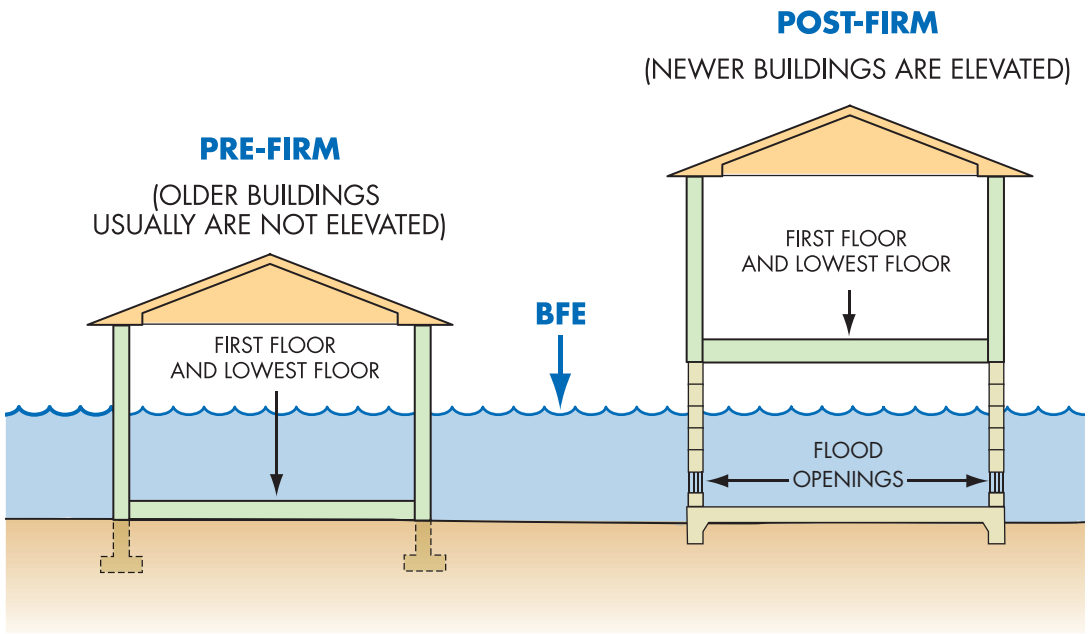
Improvements include:

- Renovation/ rehabilitation of the interior of the existing building (see page 59)
- Lateral addition, without renovation or structural alteration of the existing building (see page 60)
- Lateral addition, with renovation or structural alteration of the existing building (see page 61)
- Vertical addition (add new story)

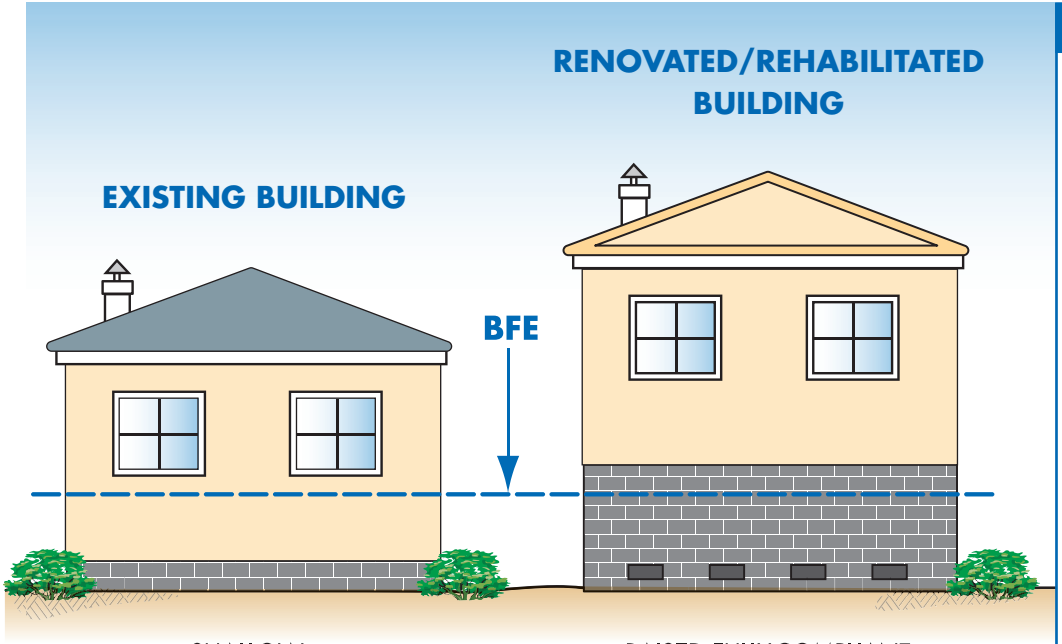
## What is Meant by Pre-FIRM and Post-FIRM?

**Pre-FIRM** and **Post-FIRM** are insurance terms tied to a community's initial FIRM. The terms are used to determine flood insurance rates. Although common, the terms should not be used to distinguish between new construction built before a community joined the NFIP and those built after, especially in communities where the FIRMs have been revised.

The FBC Existing Building Code specifies when permits are required for work on existing buildings. Buildings must be brought into compliance when work is determined to be substantial improvement or repair of substantial damage.



## Substantial Improvement: Renovation Only




SHALLOW CRAWLSPACE FOUNDATION

RAISED FULLY-COMPLIANT CRAWLSPACE FOUNDATION

(SEE PAGE 63)

**Important Information**

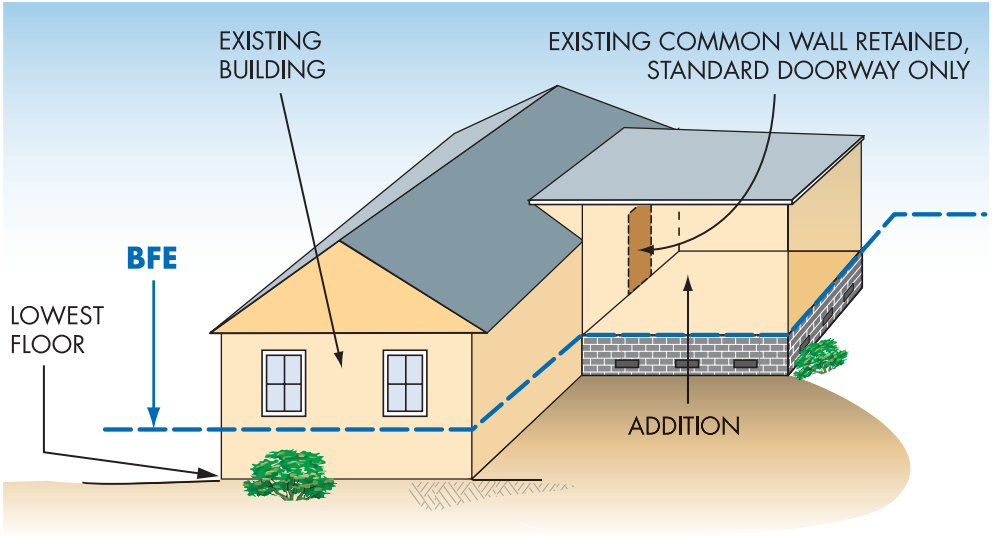
Floodplain buildings can be improved, renovated, rehabilitated or altered, but special rules apply.

Consult local permit offices before beginning work. Provide complete information about all proposed work.

If local code officials have cited violations of State or local health, sanitary, or safety codes, minimum costs to correct violations to provide safe living conditions can be excluded from the cost of renovations.

Alteration of registered historic structures are allowed, by variance, as long as the structures continue to meet the criteria for listing as historic structures.

## Substantial Improvement: Lateral Addition Only



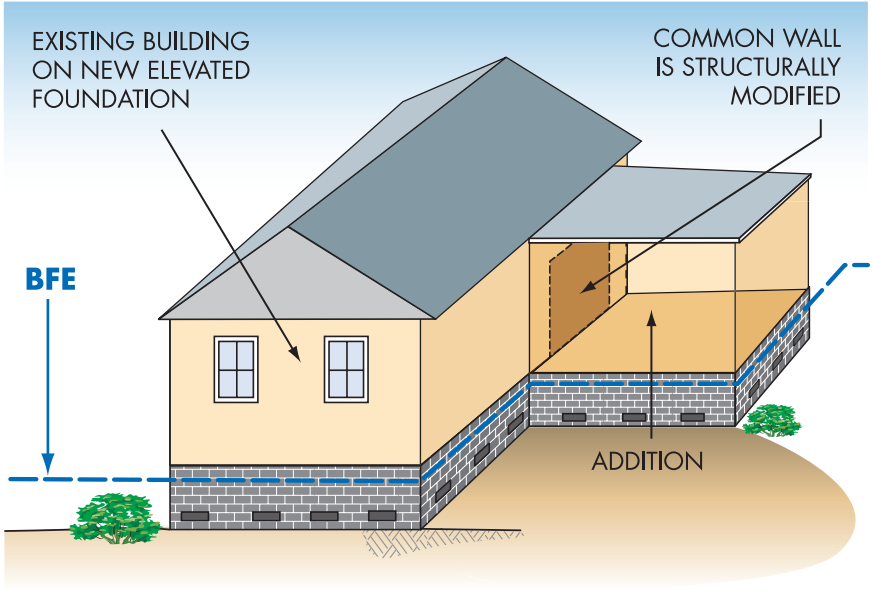

**Important Information**

See page 61 for projects to add lateral additions that also modify the interior of the existing building or make structural modifications to the existing common wall.

Permits are required to build additions to buildings in flood zones. Only the addition must be elevated and comply with the FBC, provided:

- There are no other modifications to the existing building, and
- There are no structural modifications to the existing common wall other than adding a standard 36" doorway

## Substantial Improvement: Addition Plus Other Work

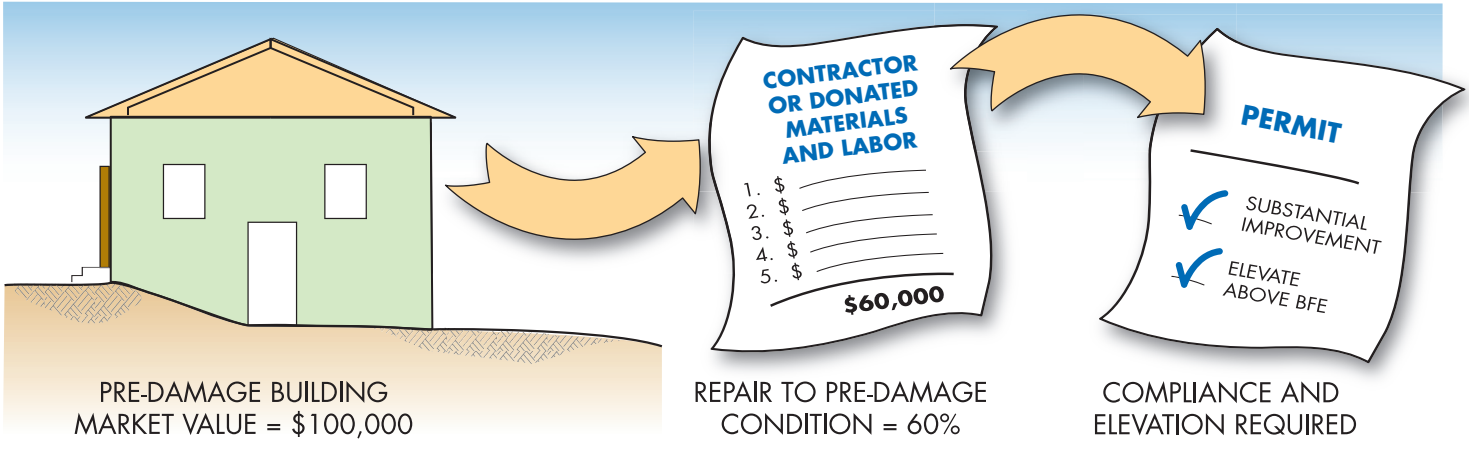



Communities must prepare evaluations to determine if all proposed work will trigger the substantial improvement requirement. Substantial improvement is triggered if:

- The work involves adding a new top floor, modifying the interior of the existing building, or structural modifications to the existing common wall (for lateral addition); and
- The cost of all proposed work plus the cost of improvements equals or exceeds 50% of the market value of the existing building.

Community permit offices can help determine which requirements apply when buildings must be brought into compliance. A preliminary review of proposed improvements is recommended before projects are designed and before permit applications are submitted.

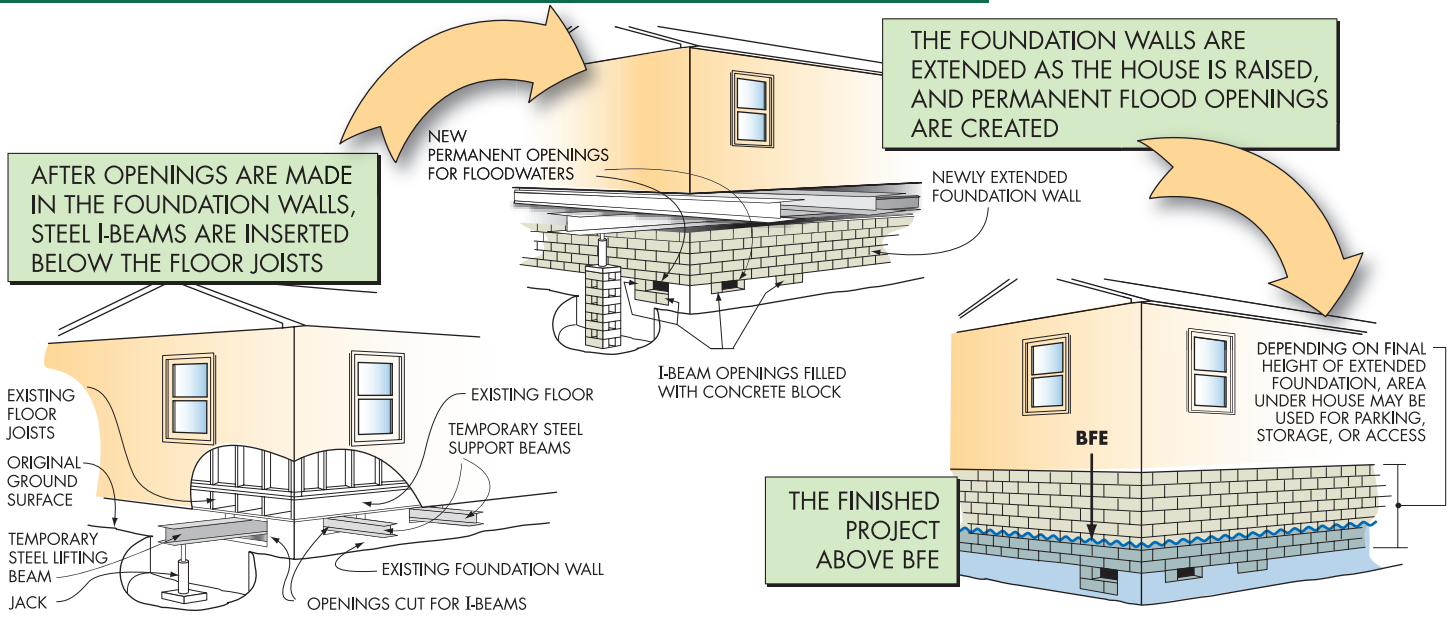
## Repair of Damaged Buildings




Permits are required to repair damaged buildings, regardless of the cause – fire, flood, wind, or even vehicle impact. Detailed estimates of the cost to repair a building to pre-damage condition are required. If the costs are 50% or more of the pre-damage market value of the building, then it is "substantially damaged" and must be brought into compliance, which may involve raising the foundation and other measures. Consult with local permit offices before repairs are started.

See page 63 for an example of elevating an existing building above a crawlspace.

## Elevating an Existing Building




This is one way to elevate an existing building to comply with building code and floodplain regulations (also see FEMA P-312, *Homeowner's Guide to Retrofitting*). If an NFIP-insured building is damaged by flood and the community determines it is substantially damaged, the owner may be eligible for an **Increased Cost of Compliance** payment (see page 64).

## Paying for Post-Flood Compliance

Owners may be eligible for up to $30,000 to help pay to bring buildings into compliance with building code and community requirements – if all of the following apply:

- Buildings are located in a mapped flood zone
- Buildings are covered by Federal flood insurance, which includes Increased Cost of Compliance coverage
- Buildings have lowest floors below the elevation required by the FBC
- The community has made an official determination that buildings were substantially damaged by flooding
- Owners act quickly with their claims adjusters and community officials to process all required paperwork

Learn more at www.fema.gov/increased-cost-compliance-coverage.

Owners whose buildings are substantially damaged are required to "bring the building into compliance" with flood zone requirements. Substantial damage is a special case of substantial improvement.

**USE THE ICC CLAIM TO:**



ELEVATE-IN-PLACE



RELOCATE TO HIGH GROUND



DEMOLISH

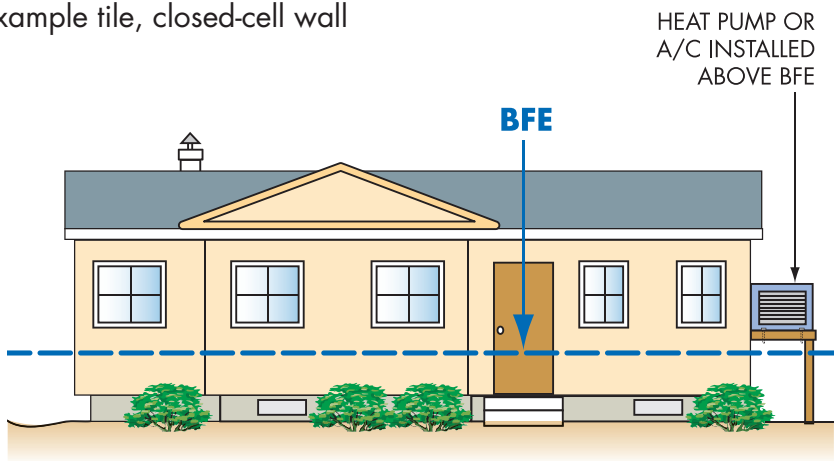


FLOODPROOF (NON-RESIDENTIAL ONLY)

## Non-Substantial Improvements

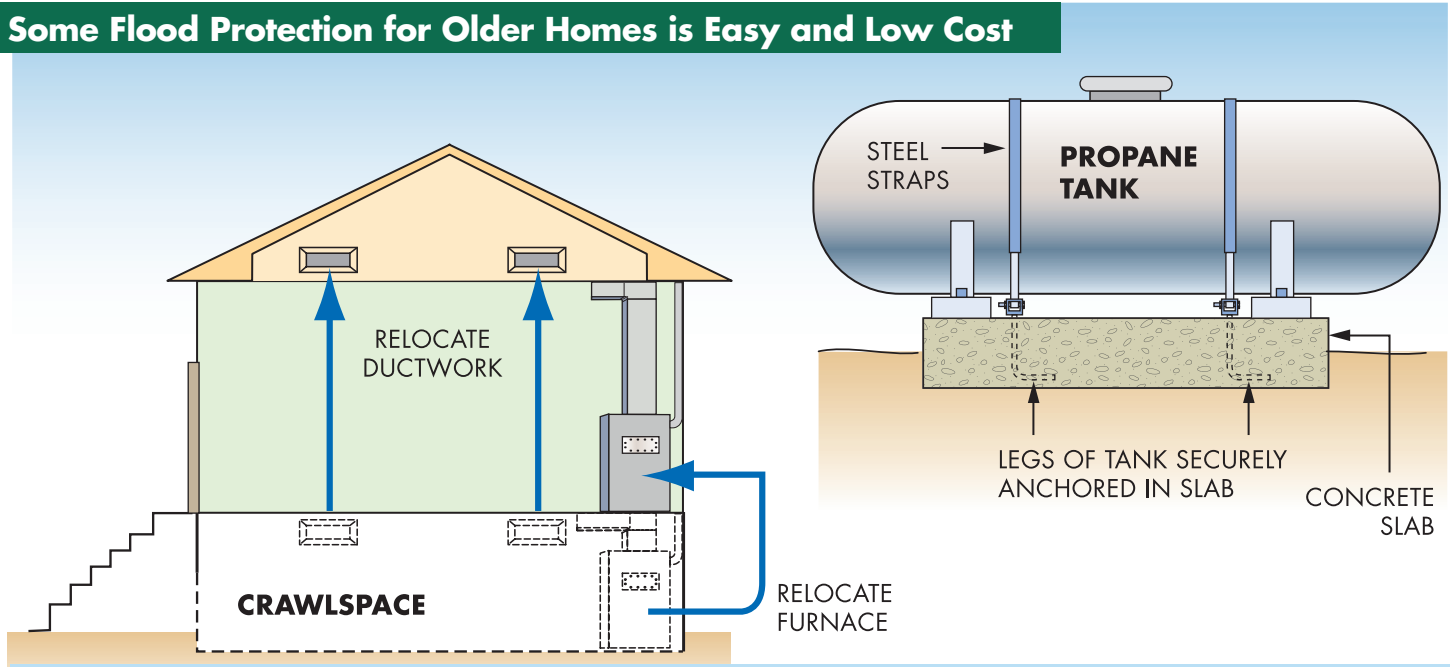
Proposed improvements are "non-substantial" if the costs are less than 50% of the market value of the building. In these cases, buildings are not required to be brought into compliance. However, there are many things owners can do to reduce exposure to future flooding. Owners should consider the following:

- Use flood damage-resistant materials, for example tile, closed-cell wall insulation, and polyvinyl wall coverings
- Raise air conditioning equipment, heat pumps, furnaces, water heaters, and other appliances on platforms
- Move electric outlets higher above the floor
- Add flood openings to crawlspace foundations
- Move ductwork out of crawlspaces
- Fill in below-grade crawlspace



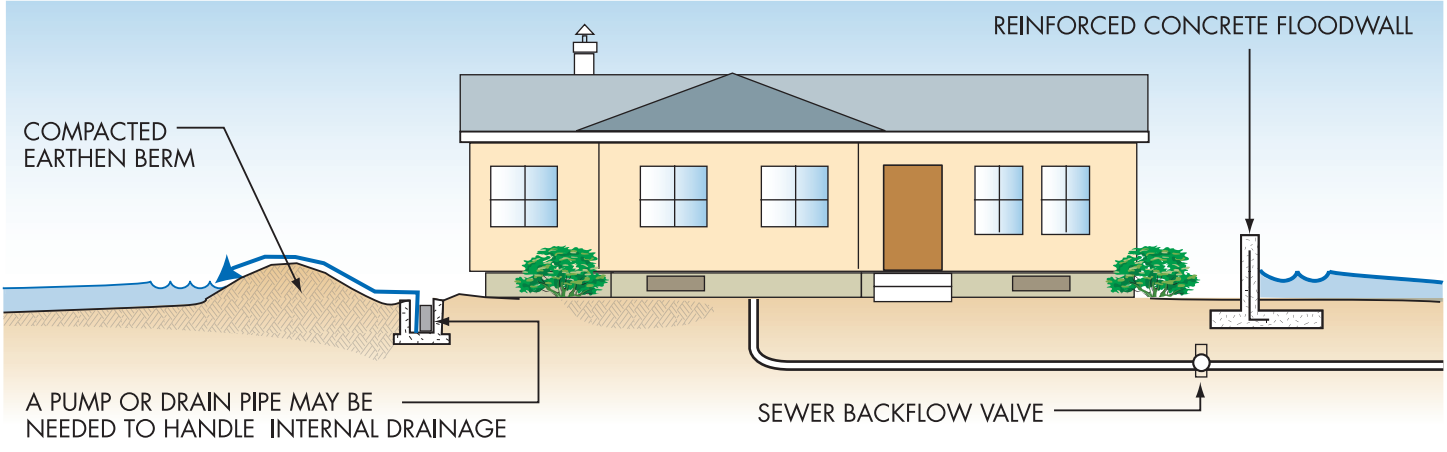

**Note!** ALL proposed work must be included in permit applications. If more work is proposed or undertaken after a permit is issued, community officials must determine whether the additional work changes the substantial improvement determination.

## Some Flood Protection for Older Homes is Easy and Low Cost




Move fuse boxes, water heaters, furnaces, and ductwork out of crawlspaces and basements.
Anchor heating oil and propane gas tanks to prevent flotation and lateral movement.
**Do not** store valuables or hazardous materials in a flood-prone crawlspace or basement.
Use water-resistant materials when repairs are made.

## Small Berms or Floodwalls May Protect Older Buildings



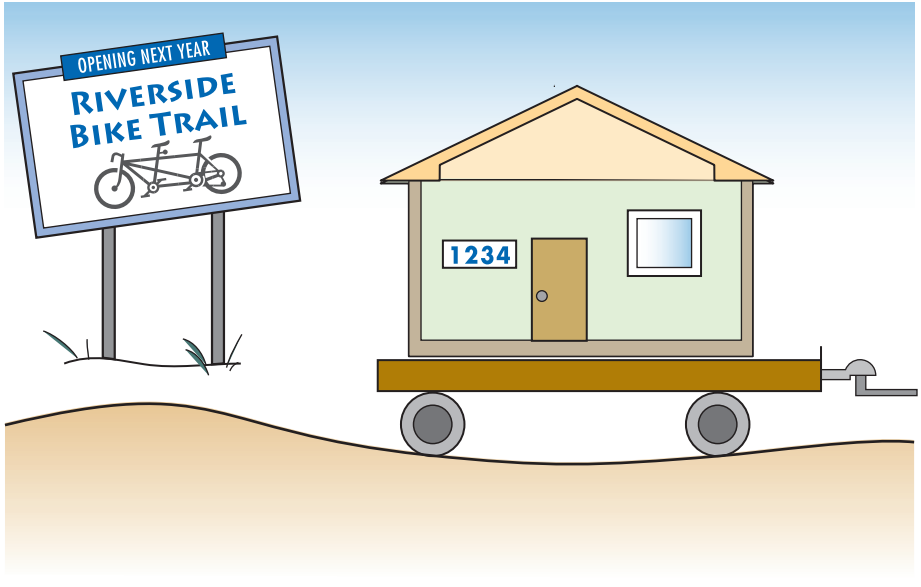

In areas where floodwater isn't expected to be deep, sometimes individual buildings can be protected by earthen berms or concrete floodwalls. Permits are required for these protection measures and extra care must be taken if sites are in floodways (see page 12). Small berms or floodwalls cannot be use to achieve compliance for new construction, substantially improved buildings, or substantially damaged buildings.

**Important!** These protective measures will not reduce your flood insurance premium!

## Some Flood Mitigation Projects are More Costly

### But Give More Protection

After floods, some communities purchase and demolish homes that were severely damaged. The acquired land is dedicated to stormwater storage or open space and can be used for recreation or to help restore wildlife habitat and wetlands. Some homes have been elevated on new, higher foundations, and others have been moved to safer high ground outside of flood zones.




The Florida Division of Emergency Management administers FEMA mitigation grant programs. Learn more at www.floridadisaster.org/Mitigation.

## Be Prepared for Flood Emergencies

Everyone should be prepared for floods and other emergencies. Preparation begins at home, at work places, at schools, and in communities.

Sometimes floods and other disasters can strike quickly and without warning and evacuation may be required. Basic services (water, gas, electricity and telephones) may be interrupted, perhaps for several days. Local officials and emergency relief works will be on the scene after disasters, but they cannot reach everyone right away. Communities, families, and businesses should prepare before disasters occur by:

- Learning about natural hazards (Florida communities participate in developing Local Mitigation Strategies)
- Making family and workplace emergency plans
- Knowing where to go if evacuations are required
- Putting together disaster kits with supplies to last a few days

To learn more about preparing for disasters, visit the American Red Cross at www.redcross.org/get-help/how-to-prepare-for-emergencies/make-a-plan and contact local emergency management agencies.

## Useful Resources and Common Acronyms

- Florida State Floodplain Management Program, resources for local officials, Florida Building Code resources, and Florida CRS guidance: www.floridadisaster.org/Mitigation
- NFIP regulations, Title 44 CFR: www.fema.gov/national-flood-insurance-program/laws-and-regulations
- NFIP Technical Bulletins: www.fema.gov/floodplain-management/nfip-technical-bulletins/4
- CRS Resources: www.fema.gov/national-flood-insurance-program-community-rating-system
- Florida Floodplain Management Association: www.flfloods.org
- Building Officials Association of Florida: www.boaf.net
- American Red Cross www.redcross.org/get-help/how-to-prepare-for-emergencies/make-a-plan

### Common Acronyms

- BFE = Base Flood Elevation
- EC = Elevation Certificate
- FBC = Florida Building Code
- FIRM = Flood Insurance Rate Map
- ICC = Increased Cost of Compliance
- NFIP = National Flood Insurance Program
- SFHA = Special Flood Hazard Area (100-year floodplain)

## Want to Learn More?

- For information and advice on permits, contact local building or planning departments.
- For advice on permitting and managing floodplains, contact the State Floodplain Management Office at floods@em.myflorida.org or (850) 815-4556.
- For flood zone permit applications, SI/SD determinations, letters to HVAC and tank companies, visit www.floridadisaster.org/mitigation.
- For information about workshops, training and conferences, contact the Florida Floodplain Management Association at www.flfloods.org.
- To learn more about flood maps, go to www.fema.gov/national-flood-insurance-program-flood-hazard-mapping.
- FEMA's on-line publications can be found in the FEMA Library (www.fema.gov/library/) or by using an Internet search engine to search on the publication number or title.
- To learn about Federal flood insurance, call an insurance agent. Most insurance companies can write NFIP policies.
- To learn the importance of taking steps to financially protect homes and businesses from flood damage go to www.floodsmart.gov.
- Find out about Elevation Certificates and training for surveyors by searching for Elevation Certificate at www.fema.gov.

This **Quick Guide** may be downloaded from the
**Florida Division of Emergency Management** web site at:
www.floridadisaster.org/Mitigation/SFMP/Index.htm

or

the **Florida Floodplain Managers Association** website at:
www.flfloods.org

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# Site # ERIC_18352, concern PFAS testing

1 message

**Marsha Ellis** <marshaellis22@gmail.com> Mon, May 20, 2024 at 9:07 AM
To: johnr.sego@floridadep.gov

Dear John,

I contacted you earlier this Spring (2024) by phone with public concerns for legacy contaminants at the Former Sanibel Bayous WWTP, Site # ERIC_18352. In that conversation I relayed public concerns as shared with me and that I have reviewed in written record, for the testing methodology executed by RMA --- such as putting the testing groundwater well in an area that did correlate with a known cache of nutrients verified by a spike (nitrogen and phosphorus), "commercial" v. "residential" remediation standard differences, cumulative impacts of contaminants and cumulative health impacts, i.e. carcinogens, as well as leaching. At that time I shared concern for future "dewatering" with inadequate provision i.e. self-certification or sub-contracting, that may occur in the future to accomodate pools indicated on the plans (pool decks) for 6 homes at future development "Coastal Creek", and the subsequent moving around of the sub-surface contaminant cache in the "dewatering" process. These advocacy efforts have been openly shared with parties of interest.

These concerns for legacy contaminants persist, as well as heightened concerns for disclosure of property defect given suspected contamination --- remaining unresolved and a subject of community controversy and anxiety.

Given the reasonable likelihood of highly transmissible PFAS legacy contaminants correlating with known cache of legacy nutrients, i.e. nitrogen, phosphorus and "relative" metals spike, aligning with the footprint of the former plant, FDEP testing of the site is MORE than warranted. FDEP has indicated that the department "wants to locate and document" PFAS contaminated sites and this absolutely should be done on Sanibel Island at the former WWTP with haste. This is a 3 acre site and PROPER OUTCOME is entirely achievable. Neighboring homeowners are rightly concerned---even considering acquiring the property to enable it to be properly remediated to protect their interests, including concerns for floc in Heron's Landing Lake and wildlife habitat impairments encompassing health, life and safety given bioaccumulation.

Biosolids resulting from WWTP operations, as visible in the accompanying forwarded email of PFAS contaminant-source, are certainly equal in magnitude --- if not exceeding concerns attributed to landfills and other sources currently under FDEP investigation.

My husband, Dr. Serge Thomas at FGCU's Water School, has monitored several impaired island lakes since before 2016, issuing a report for Sanibel in 2016 identifying Heron's Landing lake in particular as "alarmingly anoxic" with notable salinity when compared to the other impaired lakes Sanibel Island. Heron's Landing Lake has greater interaction with other water bodies than most with greater implications. It was the contamination and shutting down of Bowman's Beach that first instigated the discommission of the WWTP when it was found to be point-source of the pollution. Serge has remained committed to these lakes and studied impacts from Hurricane Ian for one-year post storm, including impacts to Heron's Landing Lake. He has sought and is seeking novel remediation to improve the health of the lake through grant/funding proposal(s) --- including possible use of bentonite --- for scientific and public benefit.

As you will read in the email copied below, there have been several instances of PFAS concerns in the community following the science-informed "reasonable likelihoods. PFAS contamination if being verefied by testing, most notably at the C & D landfill (Gulf Coast), through Phase II real estate disclosure of a property sought for purchase by Lee County. PFAS contamination in the "generalized" wastewater stream and accumulating biosolids is known and verefied. PFAS quantities, through cursory research re:wastewater streams and biosolids, were comparably HIGHER in the period of time the former WWTP was in operation.

Testing and remediation to appropriate"residential" industry standards for Site # ERIC_18352 is ENTIRELY achievable given that it is 3 acres. This site has been subject of scientific interest, study and monitoring for a considerable time to address the conditions of the lake. This is especially important given historical intersect with public health (Bowman's Beach) demonstrating contamination pattern and robust public engagement of the surrounding property owners.

Please address and redress the concerns of the public. Minimizing or dismissing their legitimate concerns harms the public trust. Given the small-scale and high profile of this property, an opportunity to properly TEST and REMEDIATE the 3 acres and must be acted on in in a timely manner in the public interests and in the interest of science to inform policy and action.

Sincerely,
Marsha Ellis
(239)822-7826

---------- Forwarded message ---------
From: **Marsha Ellis** <marshaellis22@gmail.com>
Date: Mon, May 13, 2024 at 8:23 AM
Subject: Re: MAY 24 DCEH 113 - R - PFAS test for private well
To: P. Whitehead <pbackos@hotmail.com>, <Michael.Berry@flhealth.gov>

Dear Michael,

I have been working with Patty on the issue of PFAS is well water here in Lee County. I also use well water. We understand the priority based on reasonable likelihood informed by scientific research and testing. Our concerns arise after reading the Site Environmental Report for the parcel next to the Gulfcoast Landfill (C & D) that yielded high PFAS results see below. Also included is a map of section of Lehigh Acres with DSS wells. I have reported the exceedances to the DOH, SFWMD, researchers and Lee County:

image.png
image.png

PFAS are also suspected at the former Wastewater Plant on Sanibel Island next to Heron's Landing due to large nutrient spike at the site which needs to be tested and remediated to remove the suspected cache of contaminants before the Coastal Creek development (6 new houses) makes addressing the problem more difficult and perpetuates a liability for community. The site#ERIC_18352 is the reference. My concerns reference research as presented at the Hinkley Center for Solid and Hazardous Waste Management (UF), PFAS in Municipal Public Works Waste Streams Kickoff Meeting Technical Advisory Group Meeting August 16th, 2022, Dr. Timothy Townsend's slide demonstrates PFAS sources in municipal waste. Most notable, these sources include biosolids.
image.png

PFAS contamination in wastewater generated biosolids applied to crops in Maine were verified 100% of the time and the concern of the residents regarding PFAS left behind at the wastewater site is warranted. A suit originating in Texas to address wastewater derived biosolid use has been filed as explained in this article https://nationalaglawcenter.org/farmers-file-suit-over-pfas-contamination/.

image.png
image.png
My husband, Dr. Thomas at FGCU has been involved in monitoring, studying and seeking to remediate the Heron's Landing stormwater lake since before 2016. The pond is highly impaired --- both a hazardous nuisance for the existing homeowners and habitat for the wildlife they cherish. The highly suspected cache of legacy PFAS (based on reasonable likelihood) is an environmental factor that must be tested to enable community and scientific action --- to protect the interests of the neighbors on Osprey Ct. and environment. Many partners want to support a positive outcome in addressing how we deal with, and not run away from, legacy PFAS.

Please give me some guidance as to whom I can coordinate with to this end.

Sincerely,
Marsha Ellis
(239)822-7826

On Sun, May 12, 2024 at 11:14 AM P. Whitehead <pbackos@hotmail.com> wrote:

> Get Outlook for Android
>
> ---
>
> **From:** Berry, Michael S <Michael.Berry@flhealth.gov>
> **Sent:** Sunday, May 12, 2024 10:04:18 AM
> **To:** pbackos@hotmail.com <pbackos@hotmail.com>
> **Subject:** RE: MAY 24 DCEH 113 - R - PFAS test for private well
>
> Good morning
>
> We understand your concerns about per- and polyfluoroalkyl substances (PFAS). These chemicals are not found in nature and are only found in response to human activities. Our Well Surveillance program works with the Department of Environmental Protection (DEP) to sample private drinking water wells in areas of known or suspected human-caused contamination. Given our limited resources, we can only search in areas where we have a reasonable expectation that PFAS are in the groundwater. Common sources of PFAS are fire training centers, airports, industrial sites manufacturing oil- and water-resistant materials and landfills.
>
> That said, the DEP is actively searching for sites contaminated with PFAS. This includes investigations at fire training centers, drycleaning and other industrial sites. We work with the DEP to sample wells in the area if contamination is found. You can find more information on their web site here: https://floridadep.gov/waste/waste-cleanup/content/dep%E2%80%99s-efforts-address-pfas-environment.
>
> If you are not using your well for drinking or you do not currently qualify for our Well Surveillance program sampling, you can choose to have your well sampled by a state-certified private laboratory. I have attached a list of labs that are certified to sample drinking water for PFAS. Please be aware that not every lab on the list will suit your needs. You may need to call several to find the right one for you.
>
> I hope this helps. If I can be of further assistance, please don't hesitate to contact me.
>
> Regards,
>
> Mike
>
> ---
>
> Michael Berry, R.S., Natural Sciences Manager • Florida Department of Health • Division of Disease Control and Health Protection • Bureau of Environmental Public Health
>
> 4052 Bald Cypress Way, Bin A08 • Tallahassee, FL 32399-1710 • 850-901-6486 • cell 850-274-6601 • fax 850-487-0864
>
> Our Mission: To protect, promote & improve the health of all people in Florida through integrated state, county, & community efforts.
>
> *Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.*

**From:** Sally Haynes <revsal@gmail.com>
**Sent:** Thursday, November 14, 2024 11:57 AM
**To:** sancouncil@mysanibel.com; richard.johnson@mysanibel.com; craig.chandler@mysanibel.com; dana.souza@mysanibel.com; john.henshaw@mysanibel.com
**Cc:** Doug Stimmel <dwstimme@gmail.com>; Debbie Small <debbie.small@nashvillelaw.net>; Heron's Landing HOA Board <hlboard33957@gmail.com>
**Subject:** Piles of contaminated dirt at Coastal Creek

Mayor, City Council, and Staff, I'm writing to follow up on my emails of October 21 and November 7, and also my futile attempt to speak to the City Council on November 14.* My most pressing concern is

sophospsmartbannerend

Mayor, City Council, and Staff,

I'm writing to follow up on my emails of October 21 and November 7, and also my futile attempt to speak to the City Council on November 14.*

My most pressing concern is that I am still looking at 2 massive piles of admittedly contaminated sand/soil at the Coastal Creek construction site, while another storm is bearing down on us. (My neighbors and I have already booked hotel rooms, because we know how rapidly our homes flood.) Once again, contaminants from these piles, originating from the decommissioned City wastewater facility, will flow onto our property and into our lower levels. My health and my safety, along with the health and safety of my family and neighbors, will once again be at risk.

Excavators have been working at that site since early in the year. My expectation was that the City of Sanibel would monitor the work to insure that the conditions of the October 23, 2023 agreement were met, especially since the City is fully aware of the previous history of that site. Instead, as far as I can tell, City staff only began looking closely once I began asking questions.

I implore you once again to direct City personnel to monitor this site closely. I know that staff, even as excellent as they may be, are spread thin. However, this construction site should be of particular focus, since it is the largest subdivision built on Sanibel in recent years and is on a site that the City is aware is contaminated.

As you recall, the Heron's Lake neighbors expressed concern throughout the permitting process. When we spoke at the Planning Commission, one commissioner told us that we

had “sour grapes” for not purchasing the property ourselves. Another commissioner told us that our yards were the problem for pollutants for the lake, and that we ought to watch ourselves. (It’s in the transcript.) Since then, Dana Dettmar has inspected our backyards twice. I’m making an observation, not a complaint, since we have an agreement with the City along these lines. However, you can understand why I am so troubled to have Osprey Court yards inspected twice in a time period when, as far as I can tell, the entire Coastal Creek development has been inspected minimally, if at all.

Please do anything in your power to get those dirt piles removed before Tropical Storm/Hurricane Sara arrives next week, so that they won’t wash into my home. Please monitor this site more closely, including discovering whether they have actually abided by the terms related to remove contaminated soil that they disturb. And please help me understand that Coastal Creek is being made to live up to their agreement with the City in the same way that my neighbors and I have been.

Respectfully but also with great concern,

Sally Haynes

* On November 12, I was present for over 3.5 hours of the City Council meeting, having changed one appointment to be there. I couldn’t change my noon volunteer commitment in a classroom at Heights Elementary, so I had to leave for a bit. In spite of coming back again for another hour, I didn’t receive 3 minutes to speak. But that’s a topic for another time.



# Coastal Creek

**Gayle Dendinger** <GayleD@caplogistics.com> Thu, Sep 25, 2025 at 11:14 AM
To: Marsha Ellis <marshaellis22@gmail.com>

Dear Sanibel Councilmembers and Staff,

I am unable to attend tonight's meeting and give public comment opposing Item 8. (a.) as I am a part-time resident and was not given written notice about changes that would allow the Administrative Approval of Plats, but am strongly in opposition to adopting this item. I am in agreement with public testimony given at the hearing tonight opposing this item including written evidence submitted at tonight's meeting and all evidence previously submitted by residents, Staff and others associated with this case regarding the Coastal Creek Development and the legacy and history of the Sanibel Bayous Wastewater plant.

I am opposed to adopting Item 8 that is *procedurally* in conflict with Conditions of the Coastal Creek approval.

I also agree with the *substantive* testimony and evidence presented by the public opposing Item 8 and given in public comment about the accountability of the Coastal Creek development. This includes combined and emerging contaminant impacts on the failing health of Heron's Landing Lake and broader aquatic environment that remain unaddressed and are unresolved in the Coastal Creek approval.

Our residence borders Heron's Landing lake in Heron Landing community. Given no notice I was unable to book a flight and travel to Sanibel as I would have. I am concerned for the health of my family, future neighbors and visitors to Sanibel from exposures to nuisance algal blooms and contaminants, like PFAS and metal that bioaccumulate.

Please protect our island, our citizens, and the reason why people come to Sanibel.

Thank you for your help in this matter.

Gayle Dendinger

303-829-8385

**INTEGRA ENVIRONMENTAL AND WATER SERVICES**

## Florida Administrative Code 62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

The narrative water quality criteria for nutrients in paragraphs 62-302.530 (47) (a) and (b) applies to all Class I, Class II, and Class II waters.

Although there is no numeric interpretation, a narrative for nutrients is as follows:

- Parameter (a), (b) nutrients: "The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in this chapter. Man-induced nutrient enrichment (total nitrogen or total phosphorus) shall be considered degradation in relation to the provisions of Rules 62-302.300, 62-302.700, and 62-4.242, F.A.C."

"In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna."

Absent a numeric interpretation, site specific numeric interpretations are established as follows:

For lakes, the applicable numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530 (47)(b), F.A.C. for chlorophyll *a* are shown in the table below. The applicable interpretations for Total Nitrogen and Total Phosphorus will vary on an annual basis, depending on the availability of chlorophyll *a* data and the concentrations of nutrients and chlorophyll *a* in the lake, as described below. If there are insufficient data to calculate the annual geometric mean chlorophyll *a* for a given year **or** the annual geometric mean chlorophyll *a* exceeds the values in the table below for the lake type, then the applicable numeric interpretation for Total Nitrogen and Total Phosphorus shall be the minimum values in the table below:

| **Long Term Geometric Mean Lake Color and Alkalinity** | **Annual Geometric Mean Chlorophyll *a*** | **Minimum calculated numeric interpretation** | | **Maximum calculated numeric interpretation** | |
|---|---|---|---|---|---|
| | | **Annual Geometric Mean Total Phosphorus** | **Annual Geometric Mean Total Nitrogen** | **Annual Geometric Mean Total Phosphorus** | **Annual Geometric Mean Total Nitrogen** |
| ≥ 40 Platinum Cobalt Units | 20 µg/L | 0.05 mg/L | 1.27 mg/L | 0.16 mg/L[1] | 2.23 mg/L |
| ≤ 40 Platinum Cobalt Units and ≥ 20 mg/L $CaCO_3$ | 20 µg/L | 0.03 mg/L | 1.05 mg/L | 0.09 mg/L | 1.91 mg/L |
| ≤ 40 Platinum Cobalt Units and ≤ 20 mg/L $CaCO_3$ | 6 µg/L | 0.01 mg/L | 0.51 mg/L | 0.03 mg/L | 0.93 mg/L |

[1] For lakes with color ≥ 40 PCU in the West Central Nutrient Watershed Region, the maximum TP limit shall be the 0.49 mg/L TP streams threshold for the region.

c. For the purpose of subparagraph 62-302.531(2)(b)1., F.A.C., color shall be assessed as true color and shall be free from

turbidity. Lake color and alkalinity shall be the long-term geometric mean of all of the data for the period of record, based on a minimum of ten data points over at least three years with at least one data point in each year. If insufficient alkalinity data are available, long-term geometric mean specific conductance values of all of the data for the period of record shall be used, with a value of ≤100 micromhos/cm used to estimate the 20 mg/L $CaCO_3$ alkalinity concentration until such time that alkalinity data are available. Long-term geometric mean specific conductance shall be based on a minimum of ten data points over at least three years with at least one data point in each year.

So, for lakes with color ≥ 40 PCU in the **Peninsular Nutrient Watershed Region (this Region includes Lee County and the Subject Site)**, the maximum Total Phosphorus limit shall be the 0.12 mg/L and the maximum Total Nitrogen limit shall be 1.54 mg/L. See the below Table for the nutrient thresholds set forth:

| **Nutrient Watershed Region** | **Total Phosphorus Nutrient Threshold**[1] | **Total Nitrogen Nutrient Threshold**[1] |
|---|---|---|
| Panhandle West | 0.06 mg/L | 0.67 mg/L |
| Panhandle East | 0.18 mg/L | 1.03 mg/L |
| North Central | 0.30 mg/L | 1.87 mg/L |
| **Peninsular** | **0.12 mg/L** | **1.54 mg/L** |
| West Central | 0.49 mg/L | 1.65 mg/L |
| South Florida | No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies. | No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies. |

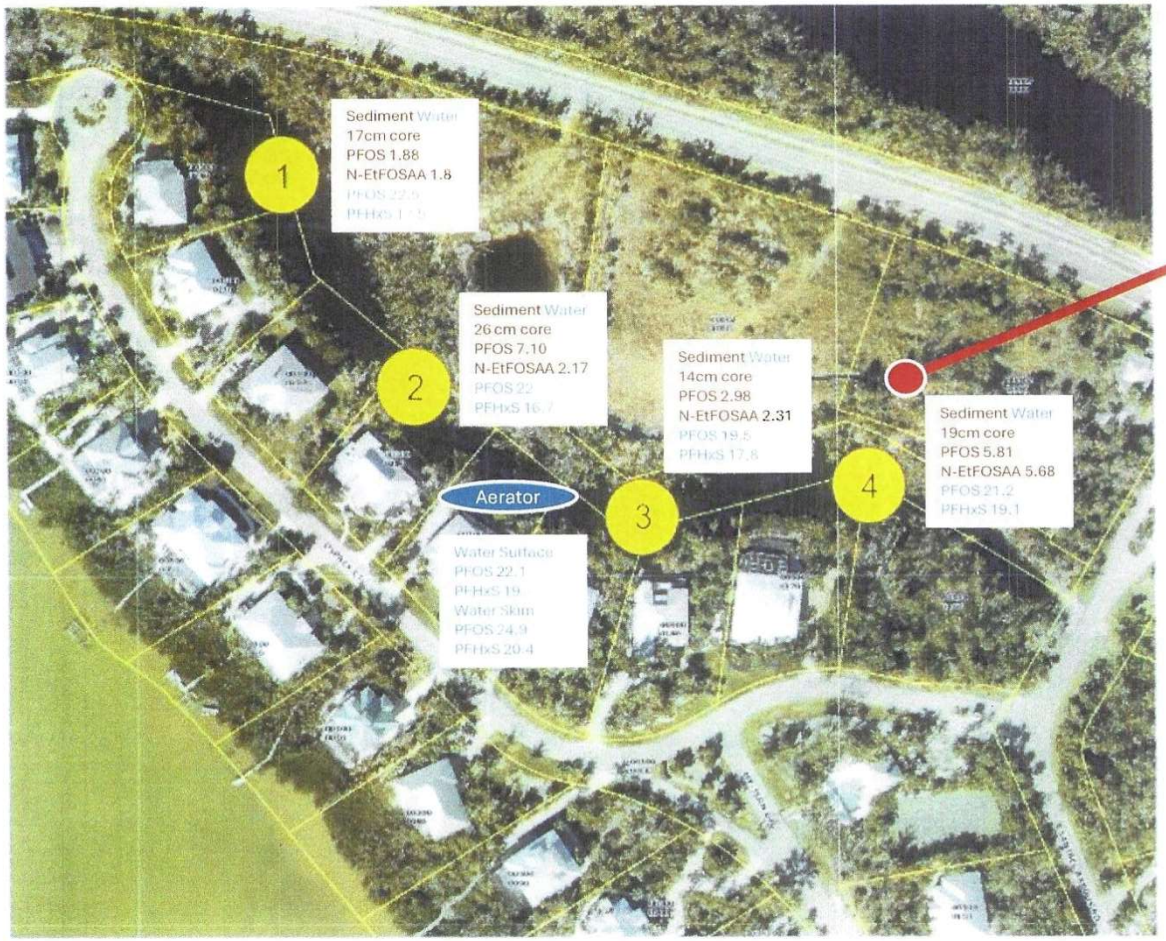
[1]These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

These are the water quality results for surface water samples collected and reported by the SCCF on July 3, 2017 (Eutrophication Study):

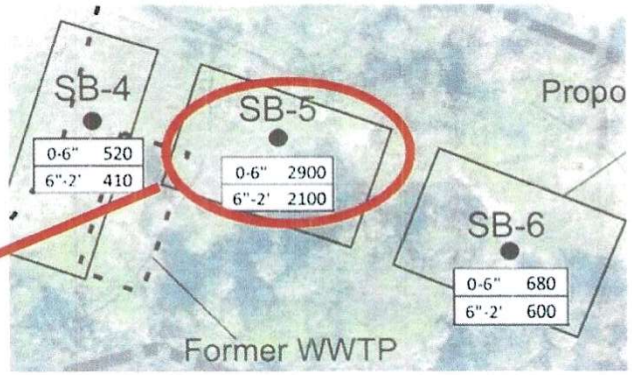
| Parameter | Lake Location HL01 | Lake Location HL02 | Lake Location HL03 |
|---|---|---|---|
| Total Phosphorus (mg/L) | 4.37 | 4.43 | 4.64 |
| Total Nitrogen (mg/L) | 8.78 | 8.14 | 8.06 |
| Chlorophyll *a* (ug/L) | 332 | 361 | 346 |

Although collected one time, the site-specific results would seem to indicate that at these levels, the thresholds would be highly exceeded.


SURVEY PLAT
OF
A PARCEL OF LAND
LYING IN
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,
SANIBEL ISLAND,
LEE COUNTY, FLORIDA
SECTION 12
SECTION 13
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GULF OF MEXICO DRIVE
CASA RIO
CASA CAPRI
CASA CAPRI ROAD
CASA CAPRI DRIVE
CASA CAPRI COURT
CASA CAPRI LANE
CASA CAPRI PLACE
CASA CAPRI TERRACE
CASA CAPRI WAY
CASA CAPRI CIRCLE
CASA CAPRI CROSSING
CASA CAPRI PARKWAY
CASA CAPRI BOULEVARD
CASA CAPRI AVENUE
CASA CAPRI STREET
CASA CAPRI ALLEY
CASA CAPRI PATH
CASA CAPRI TRAIL
CASA CAPRI WALK
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CASA CAPRI PARK
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CASA CAPRI PLAZA
CASA CAPRI MALL
CASA CAPRI CENTER
CASA CAPRI HOUSE
CASA CAPRI HOME
CASA CAPRI RESIDENCE
CASA CAPRI DWELLING
CASA CAPRI ABODE
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CASA CAPRI TRUST
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CASA CAPRI DISTRICT
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Boan, Whitaker, Lutz & Kareh, Inc.
CONSULTING ENGINEERS, SURVEYORS AND MAPPERS - PLANNERS
SURVEY PLAT
OF
A PARCEL OF LAND
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST
SANIBEL ISLAND, LEE COUNTY, FLORIDA




PFAS Sampling (July 17, 2024), EPA 1633 – Aqueous & Solid (units ng/l)

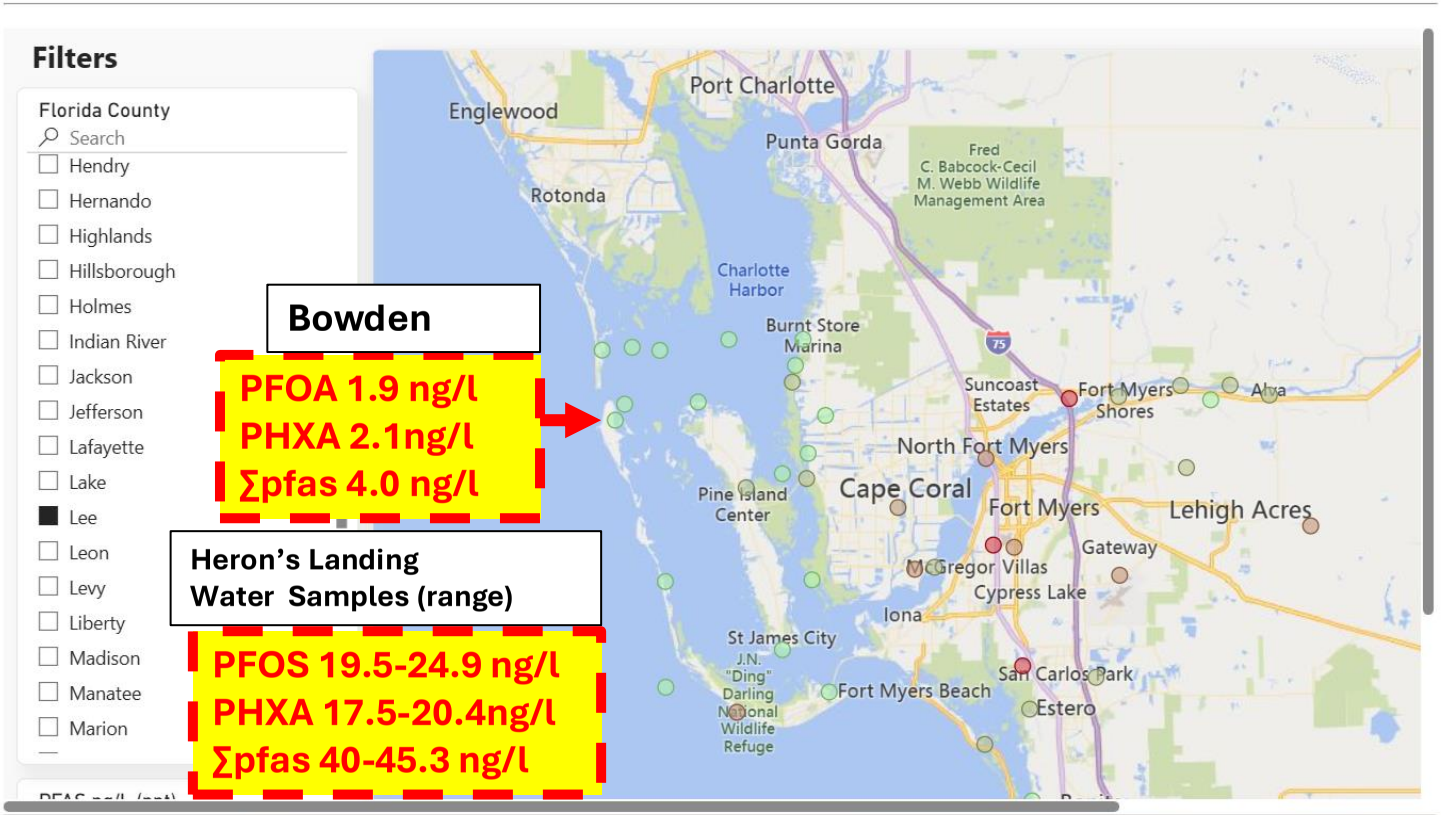



"Startling" Phosphorus 2900-2100 mg/kg (June 15, 2023)



Photograph Heron's Landing Lake (June 28, 2023)

https://www.bowdenlaboratory.com/florida-surface-water.html



https://www.bowdenlaboratory.com/florida-surface-water.html

**Table 3. PFAS Concentration (ng/L) by Florida County**[a]

| Florida county | no of samples | max ΣPFAS (ng/L) | mean ΣPFAS (ng/L) | standard deviation ΣPFAS (ng/L) | median ΣPFAS (ng/L) | no. unique PFAS[b] | Florida county | no of samples | max ΣPFAS (ng/L) | mean ΣPFAS (ng/L) | standard deviation ΣPFAS (ng/L) | median ΣPFAS (ng/L) | no. unique PFAS[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alachua | 80 | 411 | 56 | 74 | 49 | 19 | Lee | 50 | 141 | 32 | 29 | 22 | 21 |
| Baker | 10 | NA | NA | NA | NA | 4 | Leon | 21 | 42 | 10 | 11 | 5 | 14 |
| Bay | 41 | 279 | 16 | 49 | 4 | 15 | Levy | 16 | NA | NA | NA | NA | 4 |
| Bradford | 4 | 32 | 20 | 10 | 20 | 8 | Liberty | 3 | 19 | 11 | 8 | 11 | 9 |
| Brevard | 88 | 239 | 50 | 41 | 51 | 17 | Madison | 5 | 9 | 5 | 5 | 5 | 9 |
| Broward | 63 | 3048 | 71 | 385 | 16 | 19 | Manatee | 43 | 101 | 21 | 24 | 10 | 12 |
| Calhoun | 6 | 15 | 6 | 6 | 2 | 9 | Marion | 29 | 40 | 12 | 11 | 11 | 14 |
| Charlotte | 49 | 152 | 15 | 23 | 9 | 12 | Martin | 41 | 25 | 8 | 6 | 5 | 8 |
| Citrus | 35 | 15 | 15 | 15 | 15 | 4 | Miami-Dade | 104 | 86 | 24 | 21 | 18 | 17 |
| Clay | 18 | 141 | 46 | 43 | 29 | 14 | Monroe | 95 | 226 | 15 | 29 | 8 | 23 |
| Collier | 98 | 88 | 14 | 18 | 6 | 15 | Nassau | 42 | 90 | 16 | 22 | 4 | 15 |
| Columbia | 14 | 170 | 26 | 45 | 13 | 16 | Okaloosa | 49 | 185 | 31 | 42 | 12 | 18 |
| DeSoto | 8 | 29 | 22 | 7 | 22 | 9 | Okeechobee | 12 | 21 | 12 | 4 | 14 | 6 |

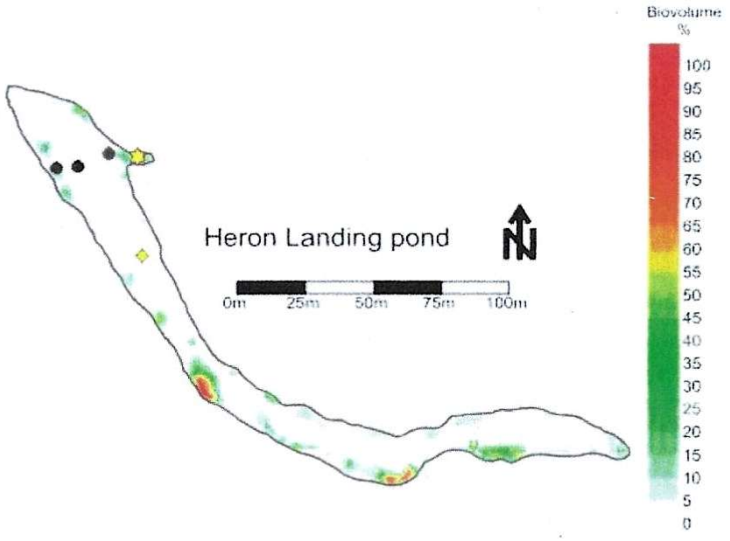



*Figure 14. SAV cover in Heron Landing pond*

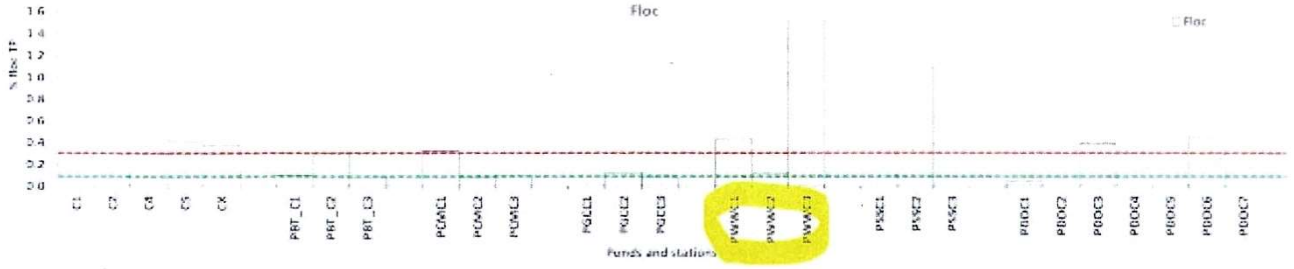



*Figure 28. TP content in the floc (2% TP equates to 20,000µg/g). The red dotted line refers to the average TP content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

### v. Heron landing pond

The water column is being destratified in Heron Landing pond since the temperature curve represents mixing occurring between the epi and hypolimnion. DO are alarming low and typical of anoxia. pH is typical of brackish and saline water which agrees with the specific conductance. Specific conductance is also lower on the surface than in deeper water and shows a weak halo/pycnocline which is being destroyed. ORP is very negative showing a very reducing environment in par with the anoxia observed. Water clarity is very poor as PAR profiles prove very challenging as light would attenuate too quickly. Particulates other than phytoplankton and likely heterotrophic bacteria and other particulates attenuate light in the water column.

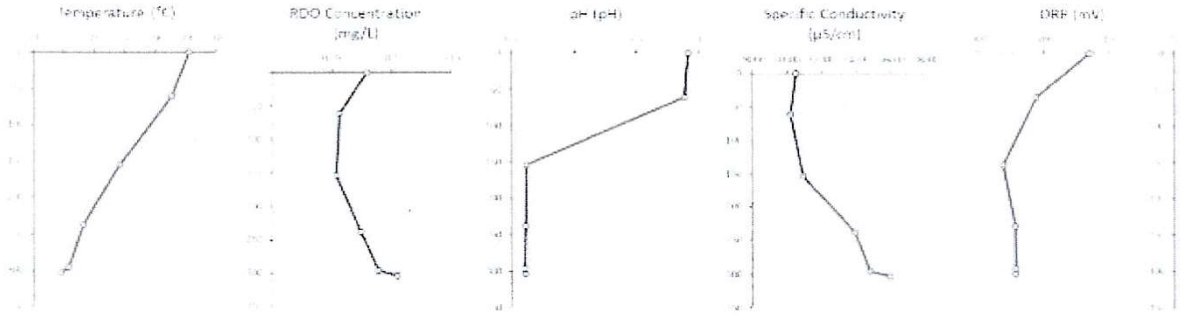



*Figure 23. From left to right, water column profiles of temperature, DO, pH, specific conductance and ORP in Heron Landing pond*

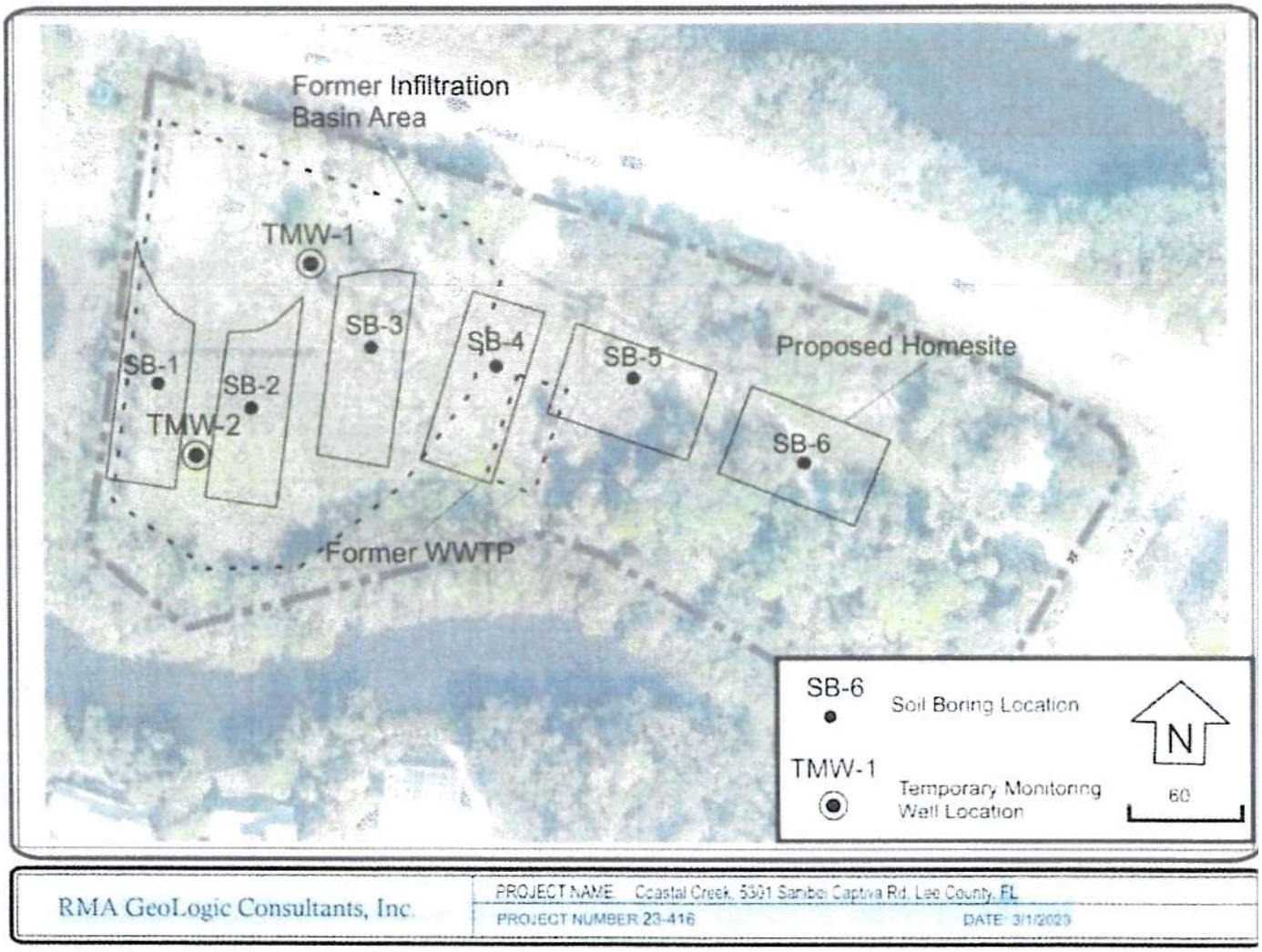
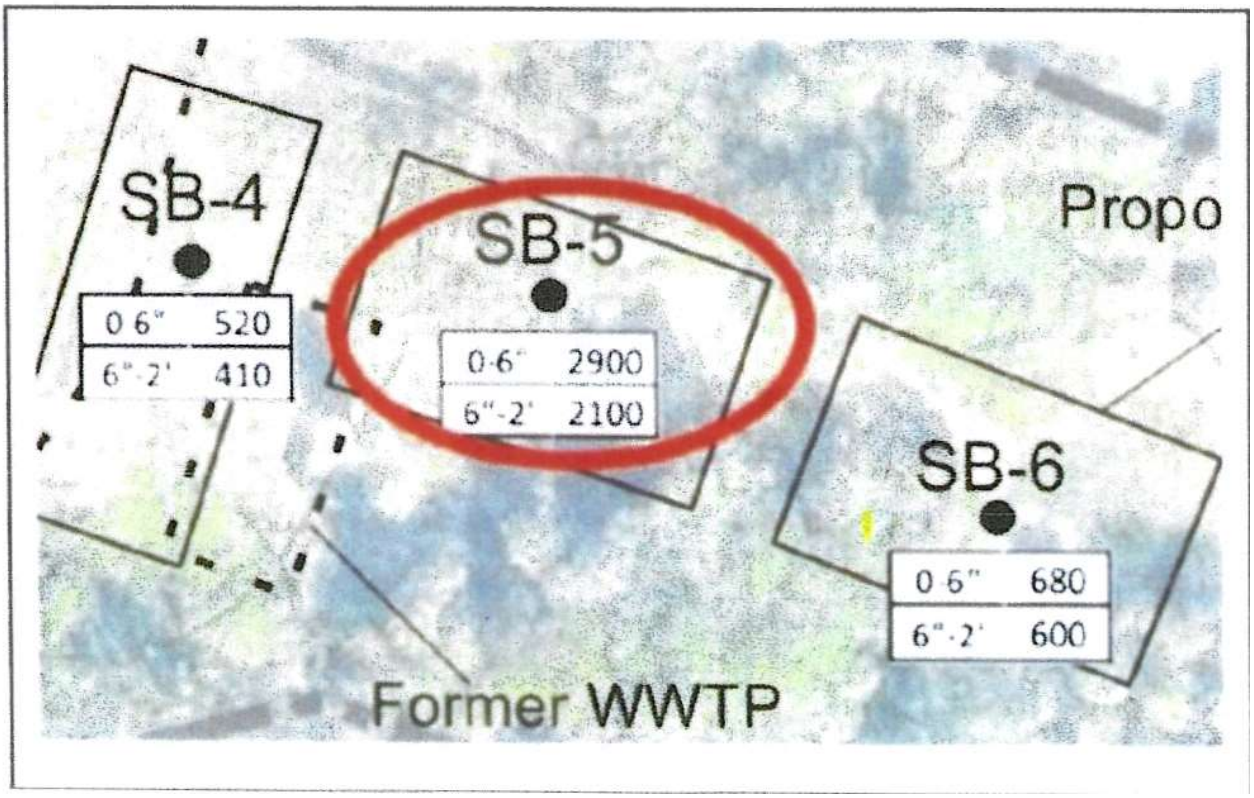



FIGURE 1 - Site Map Showing Former WWTP & Infiltration Basin, Future Homesites, and Soil and Groundwater Sample Locations



For canal reporting on Sanibel Island, please visit Sanibel Clean Canals




2023 Ranking of Concern

# 2

out of 23

Water Quality Grade 2023

F

View All Rankings

Sanibel Communities for Clean Water > Communities

## Heron's Landing

26.47001, -82.15974



Share on Facebook | Share on Twitter

Report Algae Blooms/Fish Kills

Have you implemented some best management practices here?

Let us know!

Data Summary

| Nutrients | 2018 | 2020 | 2022 | 2023 |
|---|---|---|---|---|
| IN | 0.028 | 0.409 | 0.112 | 0.86 |
| TN | 3.42 | 2.51 | 11.1 | 2.88 |
| OP | 2.97 | 1.845 | 0.622 | 0.49 |
| TP | 3.02 | 1.89 | 0.75 | 0.48 |
| Chl-*a* | 14.5 | 91 | 36.35 | 199.5 |
| TSI | 99.6 | 98.2 | 93.4 | 88 |
| Salinity | 14.5 | 18.5 | 9.55 | 26.1 |
| DO | 2.8 | 2.4 | 3.35 | 3.4 |

For canal reporting on Sanibel Island, please visit Sanibel Clean Canals

concerned) to 84 (least concerned) .

Recommendations

Alerts 0 new

Activity Tracker



## Aeration

Aeration prevents stratification, the separation of the water column into distinct layers, of dissolved oxygen. (continue reading)



## Floating Treatment Wetlands (FTWs)

A FTW is essentially a floating mat upon which plants grown hydroponically uptake excess nutrients via there root system. (continue reading)



## Lake-Friendly Landscaping/Gardening

Properly planned landscapes and gardens can greatly reduce impacts to water quality (continue reading)



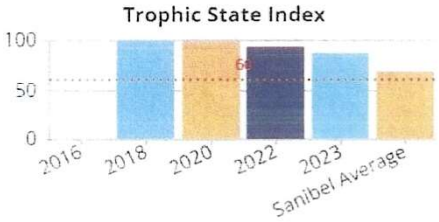
## Mechanical Removal of Algae and Aquatic Pest Plants

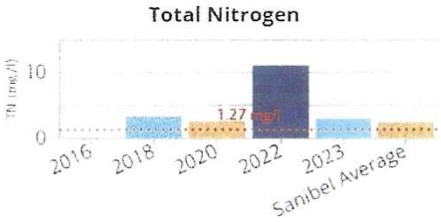


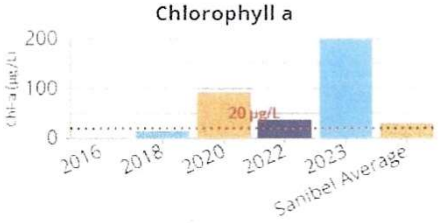

## Runoff Control

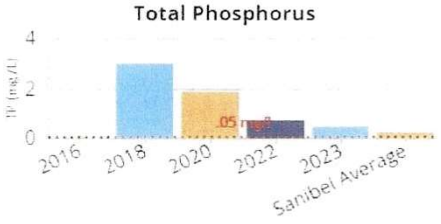
Homeowners should implement features that have the ability to deflect or slow roof and pavement runoff. (continue reading)

• • • • • = State Criteria: measurements above this line suggest impairment to the waterbody




## Historical Data

Rankings

2023 Ranking: 2

2016 Ranking: NR

Water Quality Grade

2023 Grade: F

2022 Grade: F

2020 Grade: F

2018 Grade: F

2016 Grade: NR

## Most Impaired - Top 5

1. Sanibel Island Golf Course: Reclaimed Water Pond
2. Pond Apple Park: Shipley Trail
3. Sanibel Bayous: Buck Key Road
4. Pond Apple Park: Reuse Pond
5. Heron's Landing

## Least Impaired - Top 5

84. Sanibel Lake Estates
83. Beach Road Villas
82. Twin Ponds (or Ranchos Way)
81. Periwinkle Place
80. Poinciana Circle




NEWS & VIEWS

# Potentially dangerous levels of 'forever chemicals' found across Tampa Bay region

Researchers documented levels of PFAS that far exceed the EPA recommendations in Tampa Bay's water, fish and sediments.

by **Vicki Parsons** and **Bay Soundings**
February 6, 2026



Credit: Michael O'Keene / Shutterstock

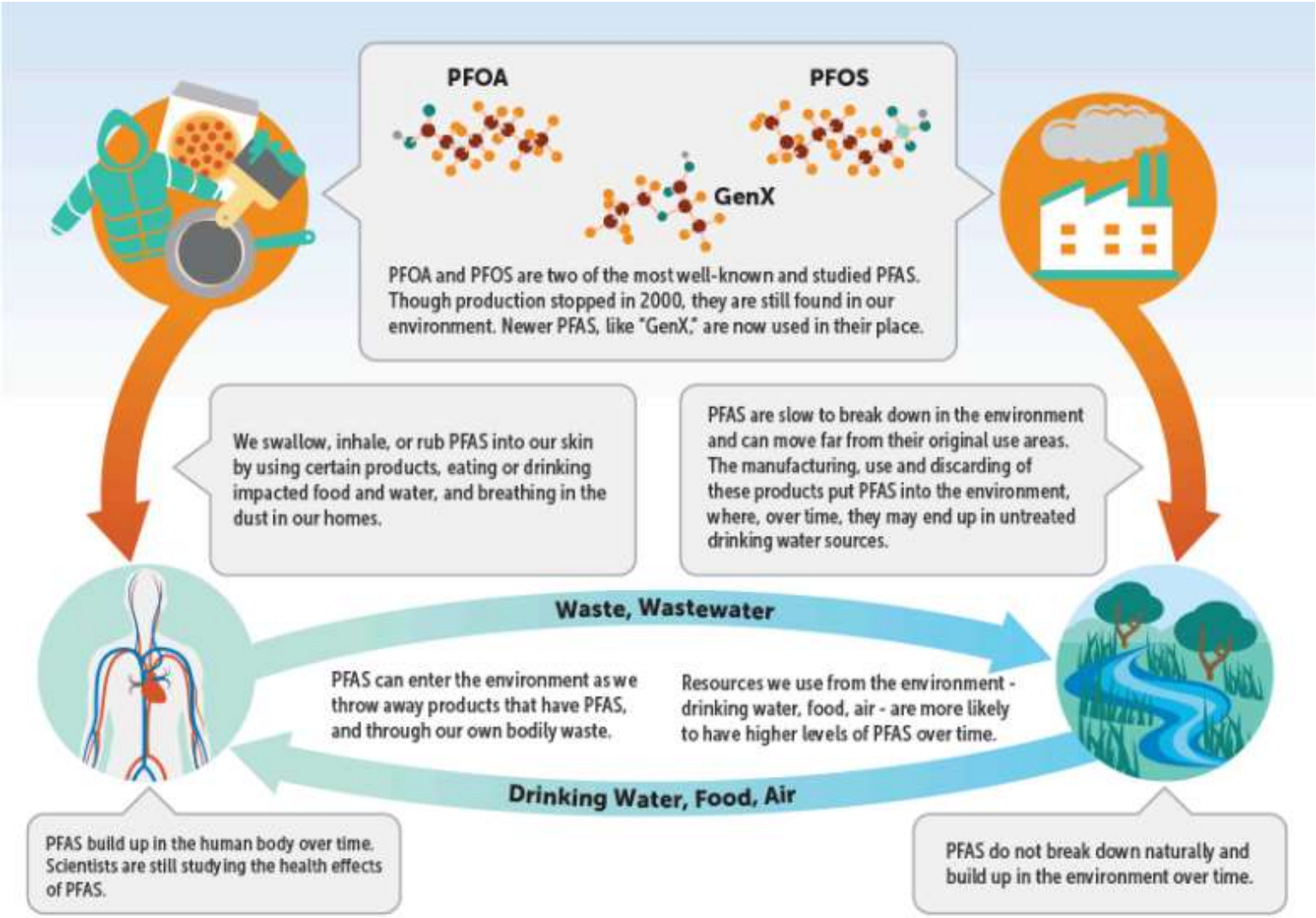
Advertisement

Like DDT when it was first introduced in the 1930s, PFAS were originally considered miracle products. They made fire-fighting foam more effective, prevented food from sticking to cookware, enabled water- and stain-resistant fabrics and carpets, and extended the wear time of lipstick and mascara. But like DDT, researchers are uncovering the dangers of PFAS long after they were unleashed in the world.

PFAS, formally known as per- and polyfluoroalkyl substances, have extraordinarily strong bonds so they're dubbed "forever chemicals." They're found nearly everywhere – from drinking water, dust and dairy products to fire-fighting foam, fish and food packaging. Researchers have linked them to a wide variety of illnesses, including decreased fertility in women, developmental delays in children, and an increased risk of some cancers such as prostate, kidney, and testicular cancer.

And they're toxic in such tiny concentrations that the Environmental Protection Agency's (EPA) standards for drinking water limit two types of PFAS to **four parts per trillion (ppt),** or about one drop of water in 20 Olympic-sized swimming pools.

While ongoing tests by Tampa Bay Water, the region's primary water utility, show that **PFAS levels meet standards** in most locations, the utility was awarded $21 million in a class-action lawsuit against PFAS manufacturers to treat water as needed.




Credit: Photo by Colin Hackley/NSF

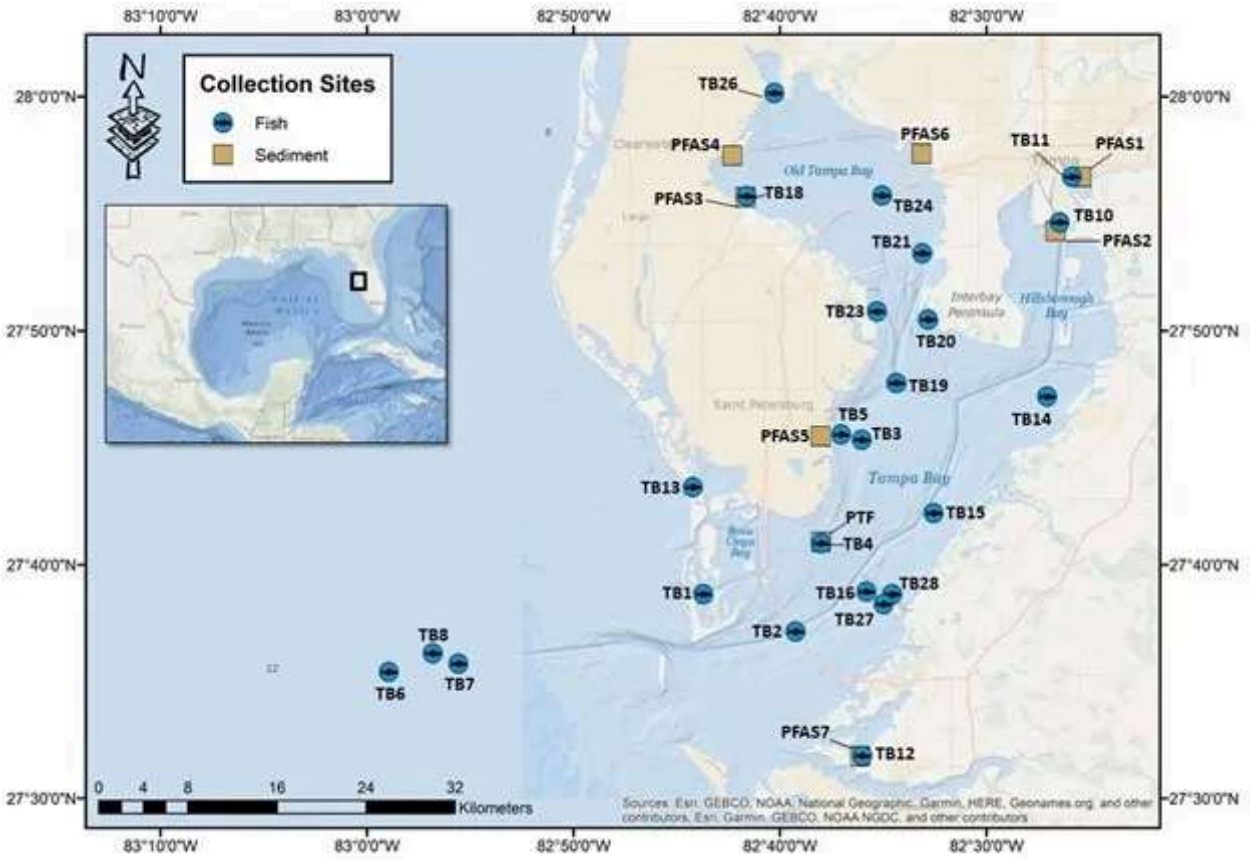
Although drinking water for much of the region appears to meet those standards, water, sediments, and fish in Tampa Bay often don't. Three researchers—John Bowden at the University of Florida (UF) and Steve Murawski and Sherryl Gilbert at the University of South Florida USF)—are documenting levels of PFAS that far exceed the EPA recommendations in Tampa Bay's water, fish and sediments.

Bowden, who sampled more than 2,300 sites in surface waters across the state with a team of citizen scientists, notes that **PFAS levels are significantly higher in Tampa Bay than in other areas**. Pinellas and then Hillsborough rank highest on the list of counties for hits above the maximum contaminant levels for PFAS found in Florida counties. "There's no clear source for them," he adds. "Military bases, where fire-fighting foam is used, are one source, but it doesn't explain high levels at other sites."

Wastewater spills, like those that often occur after heavy rain events, may also be implicated. Bowden compared data from the Florida Department of Environmental Protection documenting 7,395 wastewater

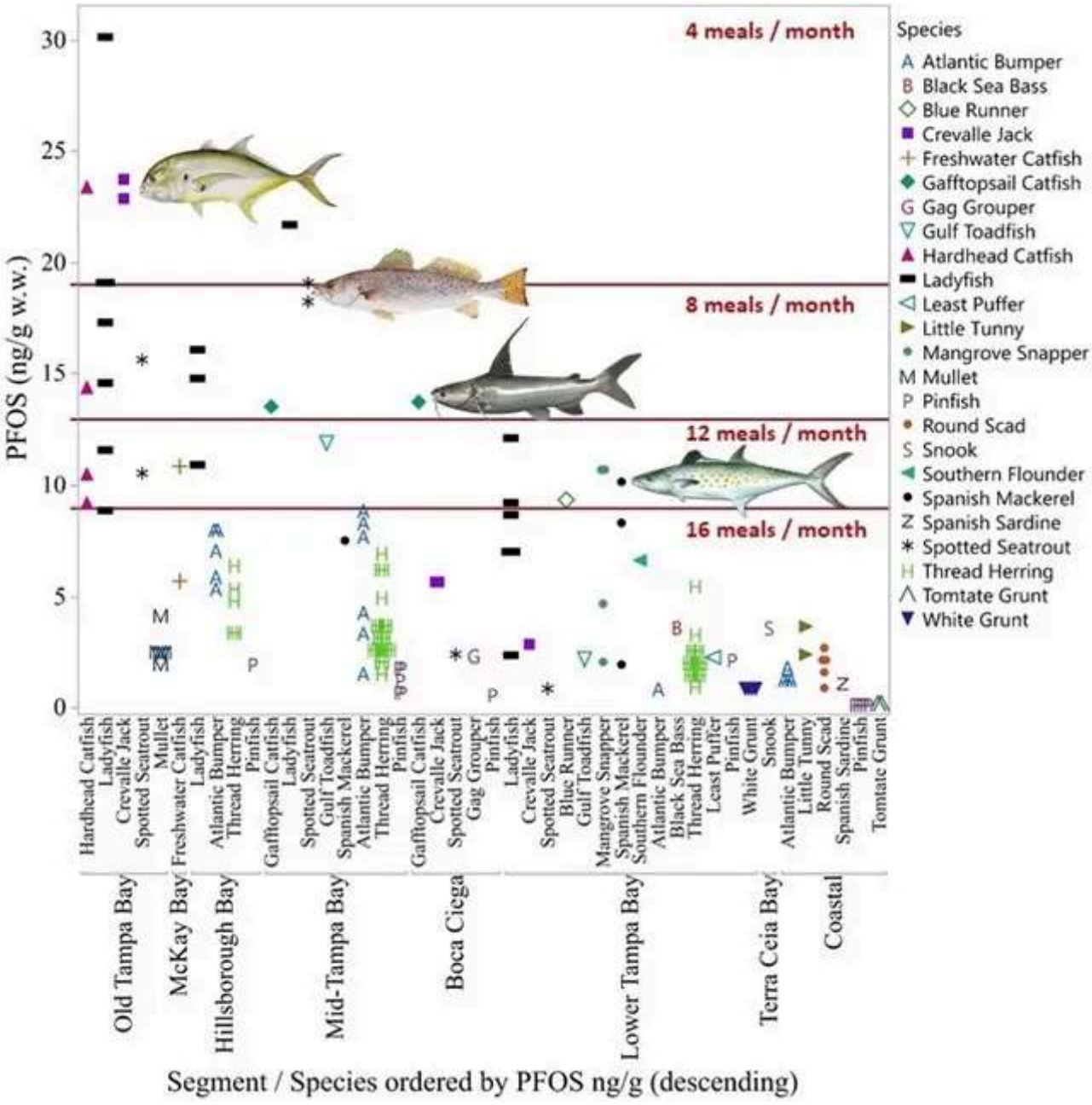
spills with the statewide PFAS heatmap, which showed a striking similarity. “More research is needed to investigate this potential source of PFAS pollution,” he said.

Even treated wastewater can be a source of PFAS because most facilities only remove about 10% of PFAS, Bowden adds. “Most of the contaminants in the processed material are dumped back into our waterways,” Bowden said. “If our drinking water comes from these sources, it will often contain PFAS. What should be alarming for all Floridians is that in the springs, which are often destined for use as drinking water, PFASs are present.”




Collection sites for samples in the USF study

Closer to home, Murawski and his team from USF had begun looking at **PFAS in Tampa Bay in 2020** and documented concentrations of more than 1,000 ppt in sediments in Old Tampa Bay and Hillsborough Bay, with lower concentrations noted in other bay segments. Perhaps more concerning is the extreme levels of PFAS in some fish caught in the bay. Catfish, ladyfish, and crevalle jack caught in Old Tampa Bay had concentrations of more than 20,000 ppt. According to guidelines drafted by the State of Michigan, fishermen should limit consumption of two of the most fish popular fish caught in Tampa Bay—snook and spotted seatrout.




Credit: Photo by Dave Decker

The **Tampa Bay Surveillance Project** is a five-year study that began in 2023 with $3.4 million in funding from the National Oceanic and Atmospheric Administration and the South Carolina Sea Grant Consortium. Murawski's team is taking a closer look at multiple contaminants in the bay and the living resources they impact. Along with PFAS, they are documenting levels of pharmaceuticals, herbicides and pesticides, and their potential impact on fish, oysters, and barnacles.

Their first efforts focus on the fish most likely to be eaten—including red drum, spotted seatrout, snook, and sheepshead—with a target of harvesting 10 of each fish in each of the bay's six segments four times a year. Separate studies looking at contaminant levels in oysters and barnacles also are planned.

A companion study, underway in partnership with Eckerd College, is looking at the effects of combined contaminants – including PFAS, pharmaceuticals, PCBs, PAHs and pesticides and other chemicals among **subsistence fishermen**.

The concept for the Tampa Bay Surveillance (TBS) project began more than 15 years ago with the Deepwater Horizon disaster. Scientists from USF were on the scene soon after the disaster and the team collected water samples and other critical information near the blowout site. Murawski went on to lead an international consortium that studied the environmental impacts of the oil spill, comprising 18 institutions and culminating in more than 250 scientific publications.

“Through our work on the spill, we learned a lot about the impacts of these contaminants and acquired highly specialized equipment to do the science,” Murawski said. “TBS is a natural extension of our work on Deepwater Horizon.”

*This is the second part in a three-part series on PFAS. The first,* **Diamonds have nothing on PFAS,** *focused on how PFASs became so widespread, and why they are dangerous. The third,* Avoiding PFAS: Easier said than done*, will be published on January 30.*

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## Recent Stories



### ‘We’ll see’: DeSantis won’t rule out another run for president

*His comment comes after he spent $160 million on his 2024 campaign for president before dropping out after the Iowa caucus.*

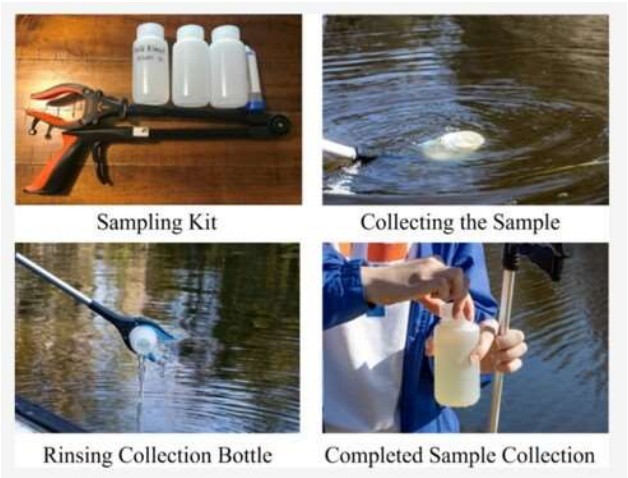




Florida's water bodies are vital for drinking, agriculture, recreation, tourism, and climate resilience. The monitoring of water quality is critical for the state, with consequences for both human health and the economy. This work describes our statewide monitoring of per- and polyfluoroalkyl substances (PFAS) within a myriad of water bodies in Florida to establish a PFAS baseline and determine hotspots. Surface water samples were obtained between April 2020 and December 2021, from 2323 sites, via crowdsourcing from all 67 counties in Florida and were subsequently analyzed for 50 PFAS via high-performance liquid chromatography-tandem mass spectrometry. The mean concentration of ΣPFAS across Florida was 29 ng/L, with a maximum ΣPFAS

were created. First attempts were made to identify possible PFAS pollution sources by overlaying suspect entities (airports, military installations, and wastewater treatment plants), in addition to relating data to historical pollution spill notifications (e.g., wastewater influent, effluent, and sludge).

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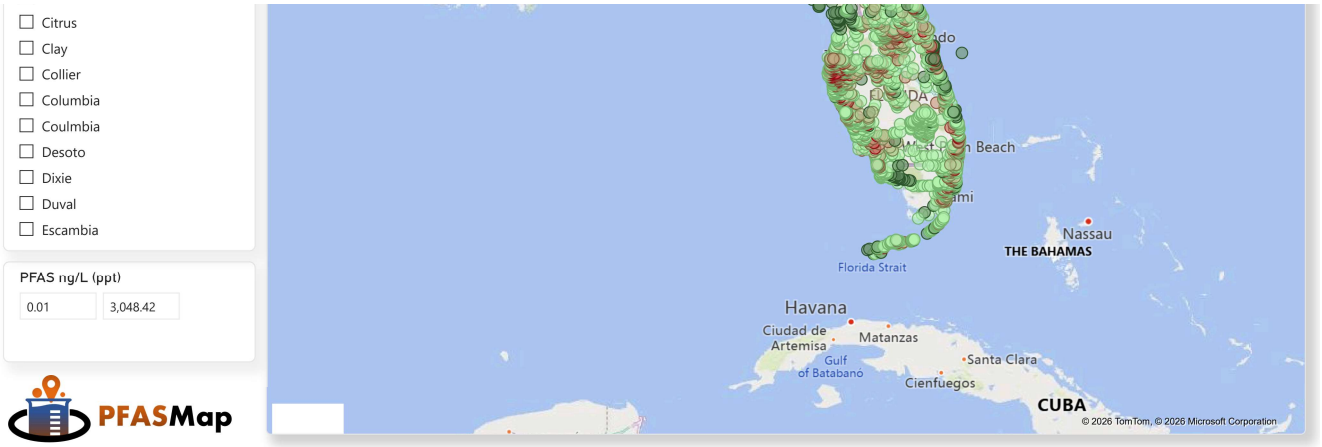

To provide an efficient statewide collection of surface water samples in Florida, a water collection program, consisting of two crowdsourcing cycles, was implemented. The first crowdsource cycle engaged >120 undergraduate students at the University of Florida via social media outreach. The second cycle of water sampler recruitment focused on engaging >70 citizen scientists and environmentally focused organizations

geographical representation. While some sites in proximity to potential pollution sources were targeted, maximizing geographical coverage of Florida remained one of the main objectives in this study. In addition to written instructions, we also provided a YouTube training video to supplement sampler training. By utilizing crowdsourcing, we were able to collect 2323 surface water samples in all 67 counties in Florida

---

Below is a map of all sites sampled in Florida. You can search by county or you can zoom in on the map for the region you want to check. Once you have a site you would like to see the PFAS concentrations, put your cursor over the dot and an information window should pop up. In the information box, only those PFAS that were detected are shown (concentration in ng/L or ppt). Note that for some locations, the GPS coordinates may be slightly off, in these instances, the concentrations are from the water body closest to the point. Remember that the pending MCL for PFOA and PFOS is 4 ppt (ng/L).

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Microsoft Power BI




(A) Map of Florida with dots representing all surface water sampling sites with quantifiable levels of PFAS (n = 2056). Dot color corresponds to the measured ΣPFAS concentration, according to the key. Six regions (light gray circles) with high densities of yellow/red circles, indicating elevated levels of ΣPFAS, are highlighted. (B) Predictive heat map of Florida PFAS levels based on the measured ΣPFAS concentrations of the surface water samples. These predictions are extrapolated from surface water values and do not intend to describe land PFAS values.

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**Table 1. Concentrations and Frequencies of Individual PFAS (and Sum, Σ) across the State of Florida**[a]

| PFAS | frequency detection | frequency quantified | frequency by county | mean (ng/L) | max (ng/L) | median (ng/L) |
|---|---|---|---|---|---|---|
| PFOA | 94% | 83% | 100% | 5 | 81 | 3 |
| PFBS | 65% | 64% | 93% | 5 | 48 | 4 |
| PFHxA | 61% | 61% | 82% | 6 | 180 | 4 |
| PFNA | 54% | 39% | 96% | 2 | 352 | 1 |
| PFOS | 53% | 48% | 91% | 10 | 1135 | 6 |
| PFHpA | 53% | 44% | 87% | 5 | 84 | 4 |
| PFHxS | 50% | 17% | 94% | 17 | 365 | 12 |
| PFDA | 33% | 16% | 90% | 2 | 27 | 2 |
| Syn35 | 24% | 1% | 75% | 6 | 24 | 5 |
| PFHxPA | 16% | 14% | 54% | 15 | 322 | 10 |
| FBSA | 11% | 11% | 42% | 5 | 85 | 5 |
| Syn32 | 9% | 6% | 21% | 1 | 7 | 1 |
| PFPrS | 5% | 3% | 51% | 5 | 24 | 4 |
| PFUdA | 4% | 4% | 42% | 3 | 114 | 2 |
| PFPeS | 3% | 0% | 36% | 29 | 58 | 20 |
| 4_2FTS | 3% | 0% | 25% | 1 | 1 | 1 |
| PFDoA | 3% | 2% | 25% | 1 | 4 | 1 |
| PFECHS | 3% | 0% | 31% | 2 | 5 | 2 |
| FHxSA | 2% | 2% | 27% | 19 | 320 | 10 |
| Oak6 | 2% | 0% | 22% | 1 | 3 | 1 |
| Syn34 | 2% | NA | 24% | NA | NA | NA |
| P4MOA | 2% | 0% | 13% | 4 | 12 | 2 |
| **ΣPFAS** | **NA** | **NA** | **NA** | **29** | **3048** | **13** |

a Data for all sampling sites (n = 2323) sorted by detection frequency. Excluding those PFAS with less than 30 detection hits (<2% of samples). Peaks determined to be < LOD or < LOQ were not utilized in calculating the mean or median concentrations. However, peaks LOD < x < LOQ were used in calculating detection frequency. Internal laboratory abbreviations defined as perfluoro-3,7-

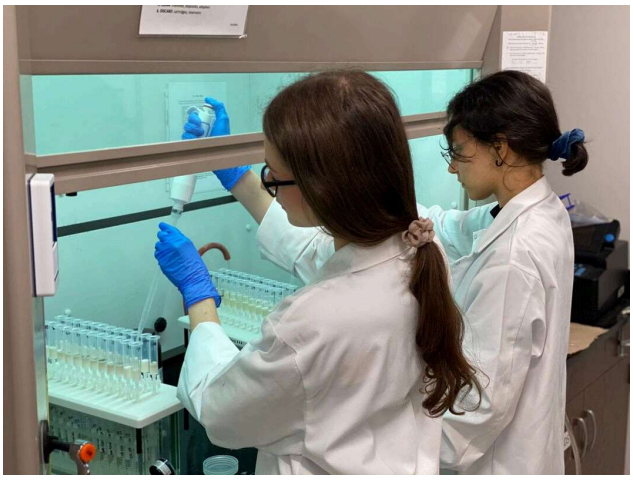
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Citrus | 35 | 15 | 15 | 15 | 15 | 4 | Miami-Dade | 104 | 86 | 24 | 21 | 18 | 17 |
| Clay | 18 | 141 | 46 | 43 | 29 | 14 | Monroe | 95 | 226 | 15 | 29 | 8 | 23 |
| Collier | 98 | 88 | 14 | 18 | 6 | 15 | Nassau | 42 | 90 | 16 | 22 | 4 | 15 |
| Columbia | 14 | 170 | 26 | 45 | 13 | 16 | Okaloosa | 49 | 185 | 31 | 42 | 12 | 18 |
| DeSoto | 8 | 29 | 22 | 7 | 22 | 9 | Okeechobee | 12 | 21 | 12 | 4 | 14 | 6 |
| Dixie | 14 | 5 | 3 | 3 | 3 | 4 | Orange | 57 | 133 | 36 | 26 | 26 | 20 |
| Duval | 59 | 867 | 62 | 135 | 26 | 16 | Osceola | 26 | 524 | 55 | 99 | 39 | 20 |
| Escambia | 52 | 118 | 12 | 21 | 4 | 11 | Palm Beach | 113 | 465 | 27 | 52 | 13 | 20 |
| Flagler | 26 | 17 | 9 | 8 | 6 | 10 | Pasco | 32 | 76 | 15 | 17 | 8 | 12 |
| Franklin | 25 | 10 | 4 | 3 | 4 | 11 | Pinellas | 120 | 500 | 56 | 60 | 41 | 25 |
| Gadsden | 6 | 18 | 10 | 6 | 9 | 14 | Polk | 57 | 97 | 34 | 25 | 32 | 15 |
| Gilchrist | 6 | 3 | 1 | 1 | 1 | 7 | Putnam | 17 | 25 | 7 | 6 | 6 | 8 |
| Glades | 42 | 19 | 11 | 3 | 11 | 12 | Santa Rosa | 36 | 279 | 24 | 63 | 6 | 20 |
| Gulf | 28 | 79 | 10 | 17 | 4 | 10 | Sarasota | 91 | 115 | 29 | 28 | 20 | 20 |
| Hamilton | 6 | 10 | 3 | 3 | 1 | 8 | Seminole | 22 | 121 | 39 | 26 | 37 | 12 |
| Hardee | 1 | 31 | 31 | 31 | 31 | 6 | St. Johns | 62 | 311 | 22 | 45 | 12 | 19 |
| Hendry | 12 | 25 | 12 | 6 | 12 | 8 | St. Lucie | 21 | 47 | 19 | 14 | 16 | 13 |
| Hernando | 10 | 23 | 7 | 7 | 5 | 9 | Sumter | 11 | 57 | 23 | 17 | 22 | 9 |
| Highlands | 25 | 60 | 23 | 15 | 17 | 16 | Suwannee | 9 | 4 | 2 | 1 | 2 | 6 |
| Hillsborough | 89 | 354 | 42 | 53 | 28 | 22 | Taylor | 8 | 6 | 3 | 3 | 1 | 4 |
| Holmes | 4 | 1 | 1 | 0 | 1 | 2 | Union | 9 | 22 | 9 | 8 | 4 | 9 |
| Indian River | 28 | 12 | 7 | 3 | 7 | 8 | Volusia | 58 | 98 | 19 | 23 | 10 | 15 |
| Jackson | 11 | 21 | 5 | 8 | 1 | 9 | Wakulla | 24 | 18 | 6 | 5 | 3 | 12 |
| Jefferson | 7 | 3 | 1 | 1 | 1 | 4 | Walton | 18 | 29 | 6 | 9 | 4 | 12 |
| Lafayette | 7 | 1 | 1 | 0 | 1 | 4 | Washington | 8 | 2 | 1 | 0 | 1 | 4 |
| Lake | 42 | 49 | 17 | 9 | 15 | 17 | | | | | | | |

b Indicates that these PFAS were detected in at least one sample per county. Peaks determined to be < LOD or < LOQ were not utilized in calculating the mean or median concentrations.

| | | | |
|---|---|---|---|
| Polk ($n$ = 57) | 43 (75%) | Okaloosa ($n$ = 49) | 38 (78%) |
| Broward ($n$ = 63) | 36 (57%) | Palm Beach ($n$ = 113) | 36 (32%) |
| Volusia ($n$ = 58) | 30 (52%) | Duval ($n$ = 59) | 31 (53%) |
| Lee ($n$ = 50) | 28 (56%) | St. Johns ($n$ = 62) | 30 (48%) |
| Duval ($n$ = 59) | 27 (46%) | Lee ($n$ = 50) | 26 (52%) |
| Collier ($n$ = 98) | 23 (23%) | Volusia ($n$ = 58) | 23 (40%) |
| St. Johns ($n$ = 62) | 22 (35%) | Broward ($n$ = 63) | 18 (29%) |
| Martin ($n$ = 41) | 20 (49%) | Manatee ($n$ = 43) | 18 (42%) |
| Seminole ($n$ = 22) | 20 (91%) | Polk ($n$ = 57) | 18 (32%) |
| Osceola ($n$ = 26) | 17 (65%) | Highlands ($n$ = 25) | 17 (68%) |
| Lake ($n$ = 42) | 16 (38%) | Martin ($n$ = 41) | 16 (39%) |
| Clay ($n$ = 18) | 15 (83%) | Osceola ($n$ = 26) | 16 (62%) |
| Pasco ($n$ = 32) | 15 (47%) | Clay ($n$ = 18) | 14 (78%) |
| Escambia ($n$ = 52) | 14 (27%) | Nassau ($n$ = 42) | 12 (29%) |
| Highlands ($n$ = 25) | 13 (52%) | Collier ($n$ = 98) | 10 (10%) |
| Manatee ($n$ = 43) | 13 (30%) | Lake ($n$ = 42) | 10 (24%) |
| Nassau ($n$ = 42) | 13 (31%) | | |
| Charlotte ($n$ = 49) | 12 (24%) | | |
| Okaloosa ($n$ = 49) | 10 (20%) | | |

a Percentages indicate the ratio of Hits above the MCL to the total number of samples collected in each respective county. b Only shown are counties with at least 10 hits.



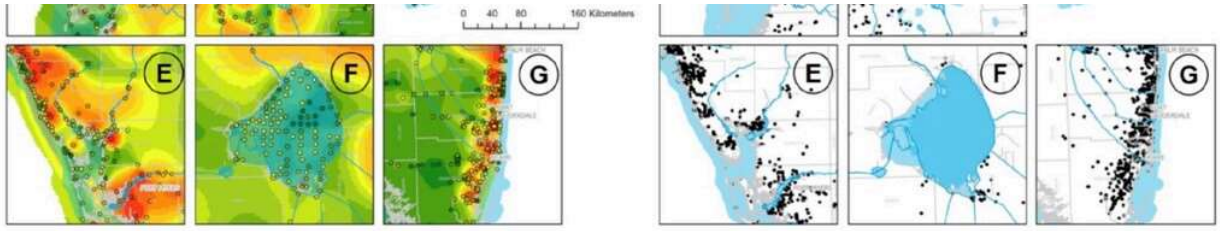






Zoomed in heat map of Pinellas and Hillsborough County Florida for individual PFAS. The redder the dot and heat map, the higher sum PFAS concentration.

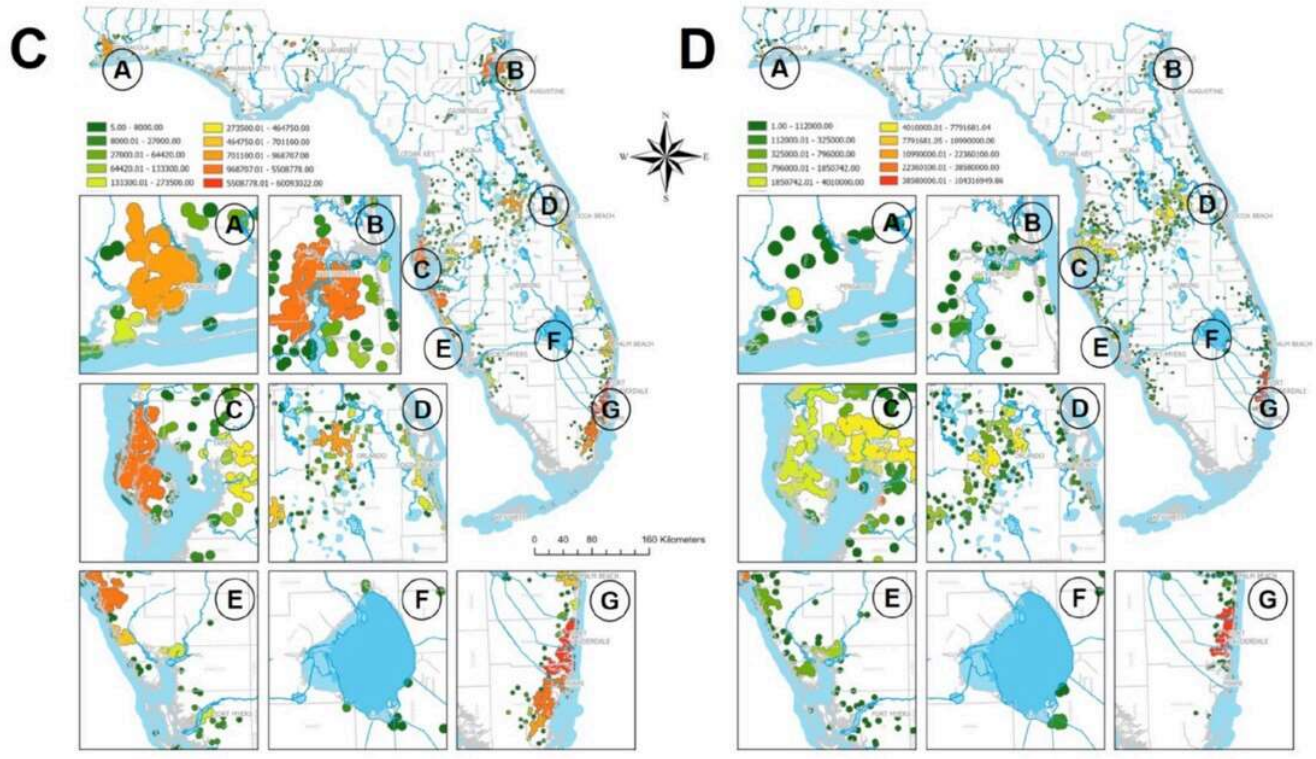
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Since 2017, the FDEP has documented every pollution based spill, as self-reported by local entities. This information is publicly available at **here**. Exporting all pollution notices prior to 2022 (up to last surface water sample collected in this study), we found a total of 7395 spills with GPS coordinates (this is after removing duplicates and citations with inaccurate coordinates). Over these 7395 spills, approximately 78% of these listed estimated volumes (in gallons) for what was spilled. The spill type and amount were tallied from the incident reports and organized into five categories (with number of incidents prior to 2022): raw sewage (2152), untreated/partially treated wastewater (1936), treated wastewater (755), solids (sludge/biosolids, 111), and various liquids (e.g., fuel, 765, liquid which did not fit into the other four categories). Summing all the estimated spills per category (in gallons), resulted in high volumes spilled: raw sewage (104 million gallons), untreated/ partially treated wastewater (341 million gallons), treated wastewater (970 million gallons), solids/sludge (2.3 million gallons), and various liquids (10 million gallons). Note that within these incident reports, a significant contributor to spills occurrence was large episodic weather events, such as hurricanes, flooding and overflows. A map that shows all spill locations (prior to 2022) is shown in Figure B below. We then compared the location and quantity spilled with the PFAS heatmap (A), notice any similarities?? More research is needed to investigate this potential source of PFAS pollution.




(A) Predictive heat map for ΣPFAS, (B) Map of Florida with all reported spill locations by the FDEP between 2017 and 2022. All maps include regional inserts around (A) Pensacola, (B) Jacksonville, (C) Tampa Bay, (D) Orlando/Cocoa Beach, (E) Sarasota/Ft Myers, (F) Lake Okeechobee, and (G) Miami/Ft Lauderdale.

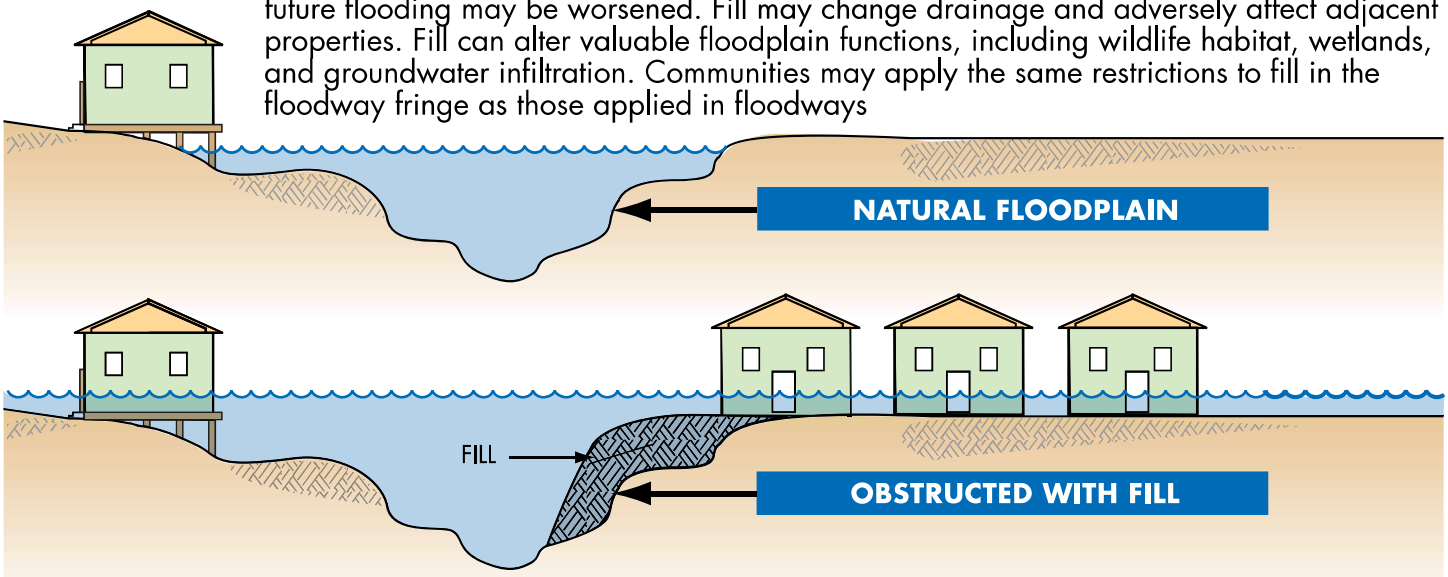
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(C) Map of Florida with reported raw sewage spills (in gallons), and (D) Map of Florida with reported untreated/partially treated wastewater spilled (in gallons). All maps include regional inserts around

## Fill Can Adversely Affect Floodplain Functions

Floodplains are supposed to store floodwater. If storage space is blocked by fill material, future flooding may be worsened. Fill may change drainage and adversely affect adjacent properties. Fill can alter valuable floodplain functions, including wildlife habitat, wetlands, and groundwater infiltration. Communities may apply the same restrictions to fill in the floodway fringe as those applied in floodways

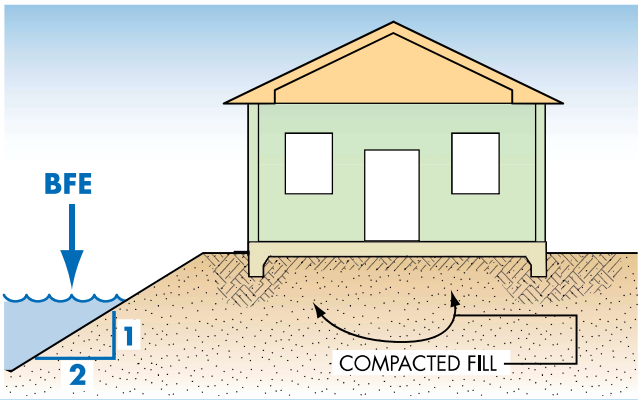



Communities should make sure fill in flood zones won't harm neighboring properties. Before deciding to use fill, property owners should check with local planning, engineering, or permit offices. Engineering analyses may be required to demonstrate that fill will cause "no rise" (see page 13).

## Placement and Compaction of Fill in Zone A/AE

Earthen fill used to raise the ground above the flood elevation must be placed properly so that it does not erode or slump when water rises. For safety and to meet requirements, fill should:

- Not be placed in areas with poor drainage or where the fill may divert water onto adjacent properties. Instead, use perimeter walls, piers or pilings to minimize drainage problems.
- Be good clean soil, free of large rocks, construction debris, and woody material (stumps, roots)
- Be machine-compacted to 95 percent of the maximum density (determined by a design professional)
- Have graded side slopes that are not steeper than 2:1 (one foot vertical rise for every 2 feet horizontal extent); 3:1 flatter slopes are recommended
- Have slopes protected against erosion (vegetation for "low" velocities, durable materials for "high" velocities – determined by a design professional)
- Avoid the floodway (see page 12)




Engineers can find more information in FEMA's instructions for Letters of Map Revision based on Fill (FEMA Form MT-1) and NFIP Technical Bulletin #10.

https://youtu.be/fedNfKfHPLk

Coastal Creeek Sanibel

YouTube · Sarah Ashton · Aug 21, 2025

YouTube



Coastal Creeek Sanibel

YouTube · Sarah Ashton · Aug 21, 2025

YouTube



Coastal Creeek Sanibel

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YouTube



Coastal Creeek Sanibel

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YouTube



# Coastal Creeek Sanibel

YouTube · Sarah Ashton · Aug 21, 2025

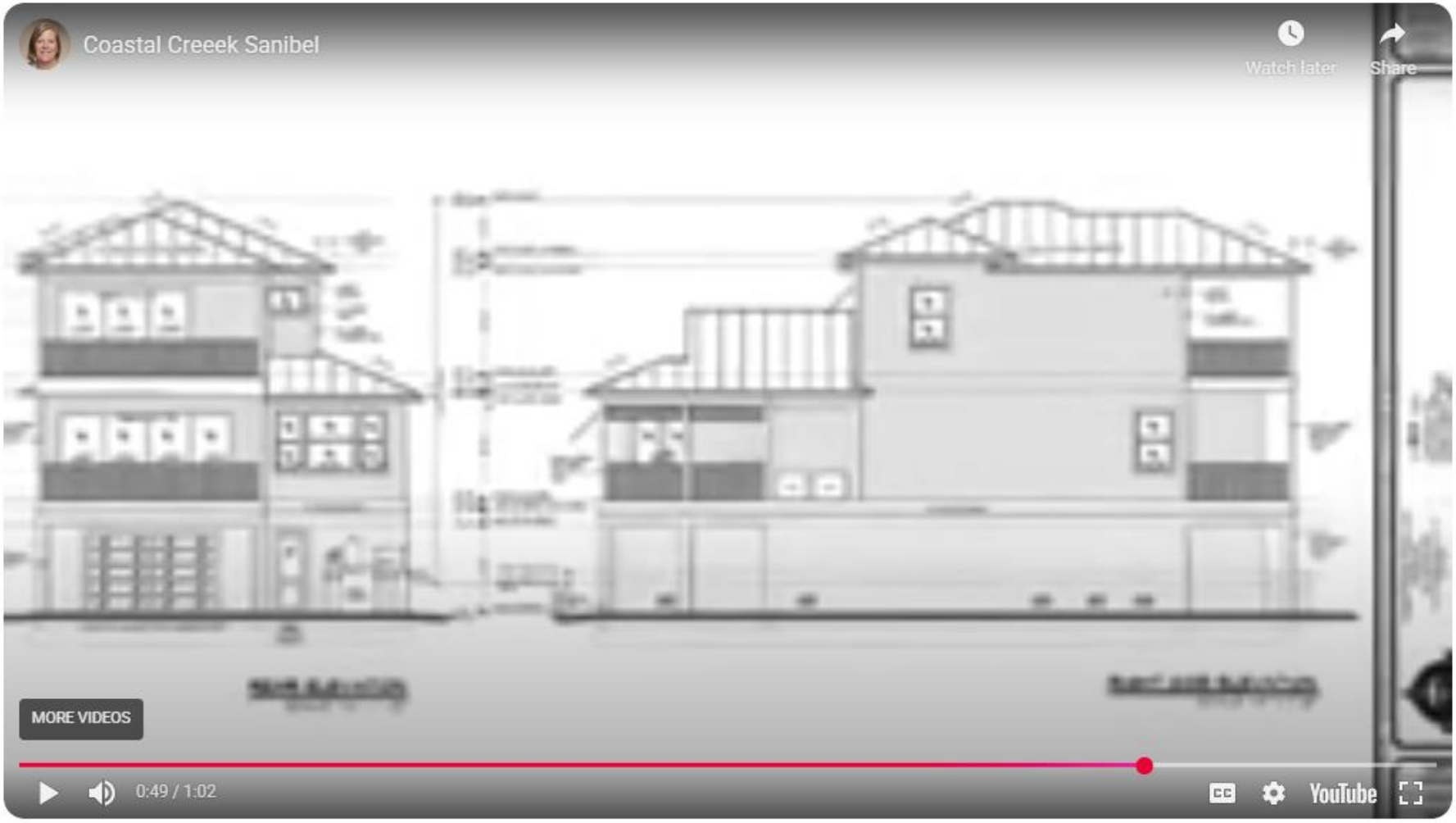
YouTube



# Coastal Creeek Sanibel

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YouTube



## Coastal Creeek Sanibel

YouTube · Sarah Ashton · Aug 21, 2025

YouTube



## Owner Of Record - Sole Owner

[Change Mailing Address]

BUCKINGHAM 225 DEVELOPMENT INC
5961 NORTHLAND RD UNIT 1
FORT MYERS FL 33905

## Site Address

Site Address maintained by E911 Program Addressing

5325 SANIBEL CAPTIVA RD
SANIBEL FL 33957

## Property Description

Do not use for legal documents!

PARL IN NW 1/4 OF NE 1/4 AS DESC IN OR 1104 PG 1062 LESS POR DESC IN INST# 2008000057136

View Recorded Plat at LeeClerk.org - Use this link to do an Official Records search on the Lee County Clerk of Courts website, using 1104 and 1062 for the book and page numbers.

### Attributes and Location Details

| | |
|---|---|
| Total Bedrooms / Bathrooms | 0 |
| 1st Year Building on Tax Roll | N/A |
| Historic Designation | No |

| Township | Range | Section | Block | Lot |
|---|---|---|---|---|
| 46 | 21E | 13 | | |
| **Municipality** | **Latitude** | **Longitude** | | |
| City of Sanibel | 26.46947 | -82.15823 | | |

[ Tax Map Viewer ] [ View Comparables ]




[ Pictometry Aerial Viewer ]

Image of Structure



Witness-Howard Freidin

William Broeder, President

National Investment & Development

Corporation

Witness Signature

Witness Printed Name

STATE OF FLORIDA

COUNTY OF ~~LEE~~ MIAMI-DADE

The forgoing Instrument was sworn to and subscribed before me this 28 day of Nov., 2012, by William Broeder, President of National Investment & Development Corporation a Florida Corporation on behalf of the Corporation. He is personally known to me or has produced a driver's license as identification and did take an oath.

Printed Name Susan S. Flint

SUSAN S. FLINT
MY COMMISSION # DD 973870
EXPIRES: April 19, 2014
Bonded Thru Budget Notary Services

SEE EXHIBIT "A" ATTACHED HERETO.

* N.B. - Grantors represent that they own and are hereby transferring an undivided one-half interest in the land described in Exhibit "A".

SUBJECT TO: Conditions, limitations, mortgages, easements and restrictions of record, if any, and real estate taxes.

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 Grantors do hereby covenants with said Grantee that the Grantors are lawfully seized of said land in fee simple; that the Grantors have good right and lawful authority to sell and convey said land; that the Grantors hereby fully warrant 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.

IN WITNESS WHEREOF, Grantors have hereunto set their hands and seals the day and year first above-written.

Signed, sealed and delivered
in our presence:

CRAIG P. ROGERS

VERNON NEAL MODGLIN

CRAIG P. ROGERS

VERNON NEAL MODGLIN

ALAN S. RADER
951 Buchanan Street
Hollywood, FL 33019

LOUISE I. RADER
21135 Helmsman Drive
Unit 012
North Miami, FL 33180

Page 1 of 2

WARRANTY DEED
(FROM CORPORATION)

RANCO FORM A-3 (PHOTOSTAT)

2380761

**This Warranty Deed** *Made and executed the* 4th *day of* December *A D* 198- *by*

ERT INVESTMENT CORPORATION, INC.

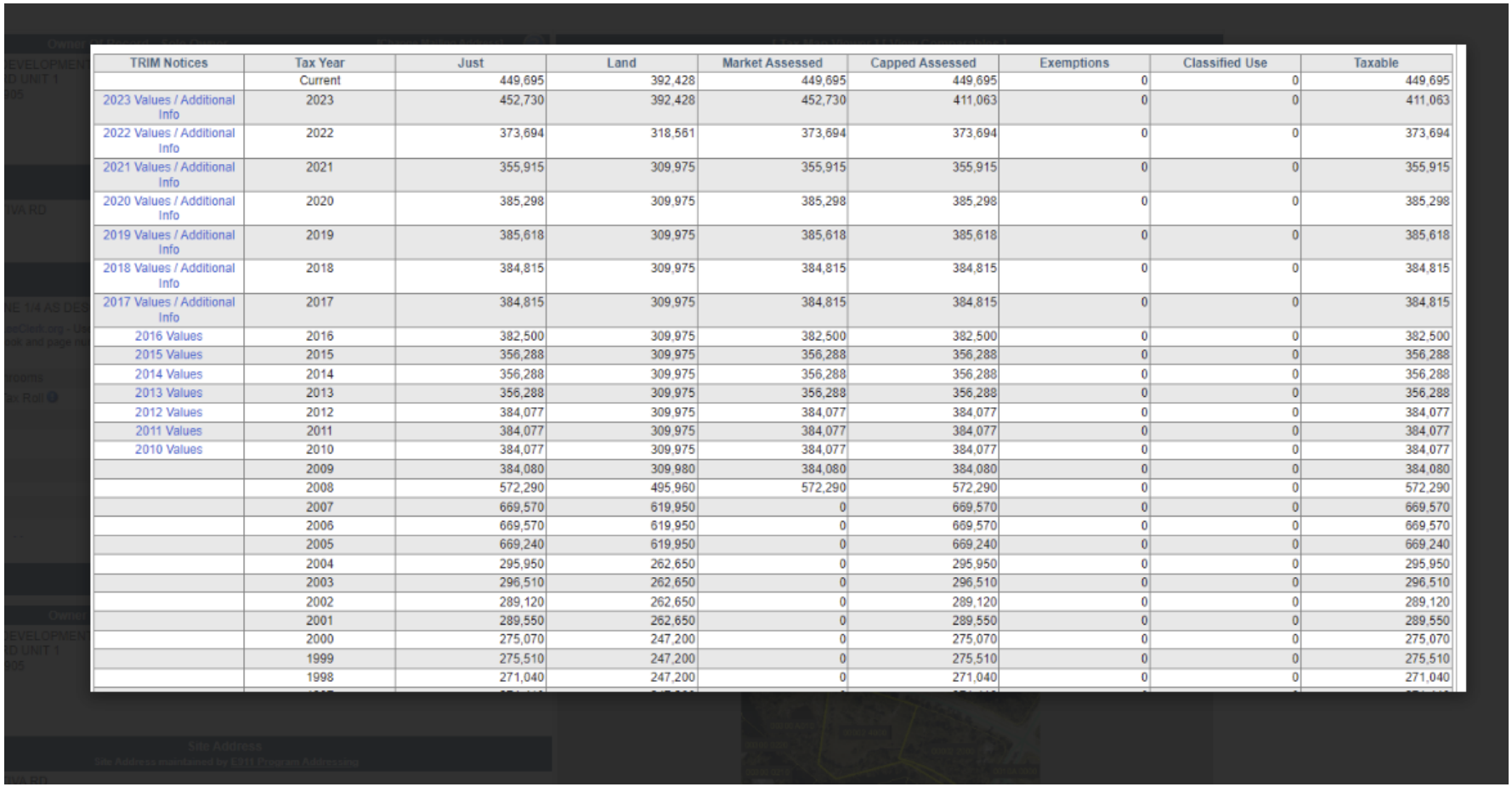
*a corporation existing under the laws of* FLORIDA *, and having its principal place of business at* 1881 Phoenix Avenue, Pembroke Pines, Florida 33026 *hereinafter called the grantor, to*

ALAN S. RADER and LOUISE I. RADER, his wife, as JTWROS

*whose postoffice address is* 951 Buchanan Street, Hollywood, Florida 33019

*hereinafter called the grantee:*

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and



| TRIM Notices | Tax Year | Just | Land | Market Assessed | Capped Assessed | Exemptions | Classified Use | Taxable |
|---|---|---|---|---|---|---|---|---|
| | Current | 449,695 | 392,428 | 449,695 | 449,695 | 0 | 0 | 449,695 |
| 2023 Values / Additional Info | 2023 | 452,730 | 392,428 | 452,730 | 411,063 | 0 | 0 | 411,063 |
| 2022 Values / Additional Info | 2022 | 373,694 | 318,561 | 373,694 | 373,694 | 0 | 0 | 373,694 |
| 2021 Values / Additional Info | 2021 | 355,915 | 309,975 | 355,915 | 355,915 | 0 | 0 | 355,915 |
| 2020 Values / Additional Info | 2020 | 385,298 | 309,975 | 385,298 | 385,298 | 0 | 0 | 385,298 |
| 2019 Values / Additional Info | 2019 | 385,618 | 309,975 | 385,618 | 385,618 | 0 | 0 | 385,618 |
| 2018 Values / Additional Info | 2018 | 384,815 | 309,975 | 384,815 | 384,815 | 0 | 0 | 384,815 |
| 2017 Values / Additional Info | 2017 | 384,815 | 309,975 | 384,815 | 384,815 | 0 | 0 | 384,815 |
| 2016 Values | 2016 | 382,500 | 309,975 | 382,500 | 382,500 | 0 | 0 | 382,500 |
| 2015 Values | 2015 | 356,288 | 309,975 | 356,288 | 356,288 | 0 | 0 | 356,288 |
| 2014 Values | 2014 | 356,288 | 309,975 | 356,288 | 356,288 | 0 | 0 | 356,288 |
| 2013 Values | 2013 | 356,288 | 309,975 | 356,288 | 356,288 | 0 | 0 | 356,288 |
| 2012 Values | 2012 | 384,077 | 309,975 | 384,077 | 384,077 | 0 | 0 | 384,077 |
| 2011 Values | 2011 | 384,077 | 309,975 | 384,077 | 384,077 | 0 | 0 | 384,077 |
| 2010 Values | 2010 | 384,077 | 309,975 | 384,077 | 384,077 | 0 | 0 | 384,077 |
| | 2009 | 384,080 | 309,980 | 384,080 | 384,080 | 0 | 0 | 384,080 |
| | 2008 | 572,290 | 495,960 | 572,290 | 572,290 | 0 | 0 | 572,290 |
| | 2007 | 669,570 | 619,950 | 0 | 669,570 | 0 | 0 | 669,570 |
| | 2006 | 669,570 | 619,950 | 0 | 669,570 | 0 | 0 | 669,570 |
| | 2005 | 669,240 | 619,950 | 0 | 669,240 | 0 | 0 | 669,240 |
| | 2004 | 295,950 | 262,650 | 0 | 295,950 | 0 | 0 | 295,950 |
| | 2003 | 296,510 | 262,650 | 0 | 296,510 | 0 | 0 | 296,510 |
| | 2002 | 289,120 | 262,650 | 0 | 289,120 | 0 | 0 | 289,120 |
| | 2001 | 289,550 | 262,650 | 0 | 289,550 | 0 | 0 | 289,550 |
| | 2000 | 275,070 | 247,200 | 0 | 275,070 | 0 | 0 | 275,070 |
| | 1999 | 275,510 | 247,200 | 0 | 275,510 | 0 | 0 | 275,510 |
| | 1998 | 271,040 | 247,200 | 0 | 271,040 | 0 | 0 | 271,040 |

Last Inspection Date: 05/01/2023

## Property Values / Exemptions / TRIM Notices

No existing exemptions found for this property.

| TRIM Notices | Tax Year | Just | Land | Market Assessed | Capped Assessed | Exemptions | Classified Use | Taxable |
|---|---|---|---|---|---|---|---|---|
| | Current | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2023 Values / Additional Info | 2023 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2022 Values / Additional Info | 2022 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2021 Values / Additional Info | 2021 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2020 Values / Additional Info | 2020 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2019 Values / Additional Info | 2019 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2018 Values / Additional Info | 2018 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2017 Values / Additional Info | 2017 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2016 Values | 2016 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2015 Values | 2015 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2014 Values | 2014 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2013 Values | 2013 | 181,211 | 181,211 | 181,211 | 181,211 | 0 | 0 | 181,211 |
| 2012 Values | 2012 | 181,211 | 181,211 | 181,211 | 99,694 | 0 | 0 | 99,694 |
| 2011 Values | 2011 | 90,631 | 90,631 | 90,631 | 90,631 | 0 | 0 | 90,631 |
| 2010 Values | 2010 | 90,631 | 90,631 | 90,631 | 90,631 | 0 | 0 | 90,631 |
| | 2009 | 90,630 | 90,630 | 90,630 | 90,630 | 0 | 0 | 90,630 |
| | 2008 | 431,760 | 294,960 | 431,760 | 431,760 | 0 | 0 | 431,760 |
| | 2007 | 417,250 | 278,650 | 417,250 | 417,250 | 0 | 0 | 417,250 |

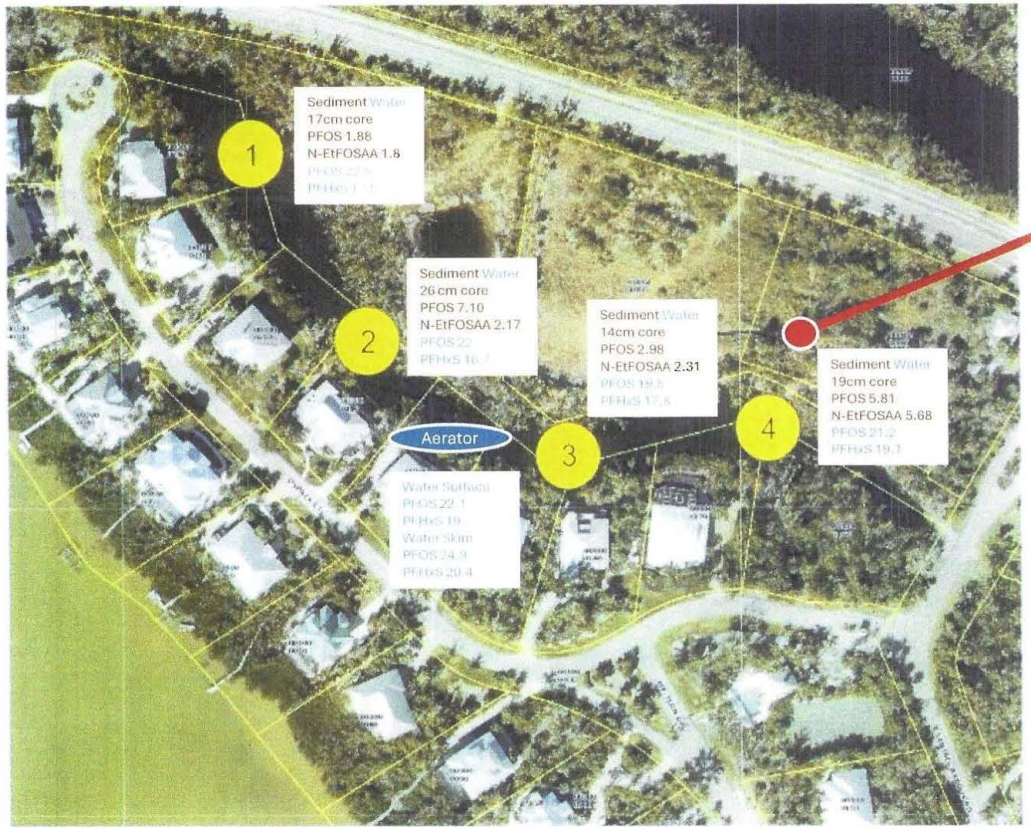
## APPENDIX INDEX Volume(s) 1-4


| Exhibit | Document | Vol #: Page # |
|---|---|---|
| A | Signed Resolution July 25, 2023 | Vol 1 |
| B | Additional Signed Resolution October 3, 2023 | Vol 1 |
| C | PFOS in US Ambient Surface Waters September 1, 2022 | Vol 1 |
| D | PFAS in Wastewater Research April 21, 2022 | Vol 1 |
| E | Access PFAS Site Checklist January 19, 2025 | Vol 1 |
| F | PFAS Effluent Lawsuit June 4, 2025 | Vol 1 |
| G | PFAS removal from wastewater technology April 21, 2024 | Vol 1 |
| H | Limnological report Sanibel Lakes, Dr. Serge Thomas | Vol 2 |
| I | Heron’s Landing SCCF Report Card | Vol 2 |
| J | 2023 Heron’s Landing Flyer | Vol 2 |

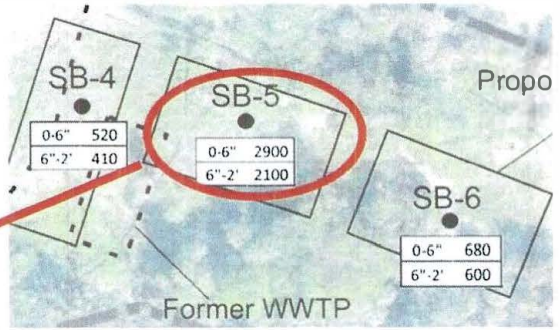
| | | |
|---|---|---|
| K | 2024 Heron’s Landing Working Document | Vol 2 |
| L | Visualization PFAS Test Results Map 2024 | Vol 2 |
| M | Enthalpy Final Report PFAS | Vol 2 |
| N | FOX News Hurricane Ian Sanibel lakes, Thomas | Vol 2 |
| O | Planning Commission Meeting Minutes July 25, 2023 | Vol 3 |
| P | Site Plans Coastal Creek stamped February 18, 2022 | Vol 3 |
| Q | Drainage Plan stamped November 2021 | Vol 3 |
| R | Stormwater Management Plan stamped June 28, 2022 | Vol 3 |
| S | Floodplain Management in Florida 2017 | Vol 3 |
| T | Email Ellis FDEP May 20, 2024 | Vol 4 |
| U | Email Haynes Sanibel November 14, 2024 | Vol 4 |
| V | Email Dendinger September 25, 2025 | Vol 4 |
| W | Integra Environmental and Water Services | Vol 4 |
| X | Public Submission Planning & Zoning Hearing, March 24, 2026 | Vol 4 |

| | | |
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| Y | Parcel Tax and Property Information, access Leepa 2024 | Vol 4 |
| Z | Real Estate Video Stills, August 21, 2026 | Vol 4 |
| AA | Planning Commission Public Submission Marsha Ellis | Vol 5 |
| BB | City of Sanibel Planning Commission Resolution 26-10 (signed), March 24, 2026 | Vol 5 |


SURVEY PLAT
OF
A PARCEL OF LAND
LYING IN
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,
SANIBEL ISLAND,
LEE COUNTY, FLORIDA
SECTION 12
SECTION 13
LOT 'A'
HIBORN LANDING PHASE II
PLAT BOOK 63, PAGES 89-91
O.R. 3124, PG 2025
PARCEL 1
LAND CONTAINS
1.44 ACRES MORE OR LESS
TO THE EDGE OF WATER
INCLUDING PENINSULA
REFERENCE LINE
EDGE OF WATER
LEGEND
ABBREVIATIONS
SURVEY BASED ON THE DEED OF RECORD (HIBORN HORIZON, THE PLAT OF HIBORN LANDING PHASE I, AS RECORDED IN PLAT BOOK 60, PAGES 86 THROUGH 89, AND EXISTING MONUMENTATION.
BEARINGS SHOWN ARE PLANE COORDINATES FOR THE FLORIDA WEST ZONE (NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT), INDICATING THE SOUTH LINE OF SANIBEL CAPTIVA ROAD AS BEARING N72°18'50"W.
DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF.
IRON RODS "SET" ARE 5/8" Ø REINFORCED WITH PLASTIC CAP BEARING COMPLIANCE NO. LB3913.
PARCEL SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY (RECORDED AND UNRECORDED, WRITTEN AND UNWRITTEN).
THIS PROPERTY IS SUBJECT TO ANY CLAIM THAT ANY PART OF SAID LAND IS OWNED BY THE STATE OF FLORIDA BY REASON OF SOVEREIGNTY, RIPARIAN RIGHTS AND THE TITLE FLAWS FILED IN LANDS, IF ANY.
LAKE BOUNDARIES ARE APPROXIMATE, BUT ARE NOT SHOWN.
UTILITIES AND IMPROVEMENTS, (UTILITIES AND/OR LOCATIONS NOT SHOWN, NOT LOCATED LIKE EIN TO EVERYONE NOTICE)
ROOF OVERHANGS ARE NOT SHOWN.
SEPTIC TANKS AND DRAINFIELDS, IF ANY, ARE NOT WITHIN THE SCOPE OF THIS SURVEY.
TREES ARE SURVEY ARE NOT SHOWN.
THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A TITLE AND ACCURATE TITLE SEARCH.
THIS PLAT PREPARED AS A BOUNDARY SURVEY AND IS NOT INTENDED TO DELINEATE THE JURISDICTION OR INVESTIGATIVE AREAS OF ANY FEDERAL, STATE, REGIONAL OR LOCAL AGENCY, BOARD, COMMISSION OR OTHER ENTITY.
OVERALL PARCEL CONTAINS 61.97 ACRES MORE OR LESS
SURVEY MEETS OR EXCEEDS THE ACCURACY STANDARDS OF MINIMUM SURVEY (TECHNIC
Boan, Whitaker, Lutz & Kasch, Inc.
CONSULTING ENGINEERS, SURVEYORS AND MAPPERS
SURVEY PLAT
OF A PARCEL OF LAND
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST
CAPTIVA ISLAND, LEE COUNTY, FLORIDA
SURVEY OF SEWER PLANT PARCEL DESCRIBED IN OR 1104, PG 1062




PFAS Sampling (July 17, 2024), EPA 1633 – Aqueous & Solid (units ng/l)

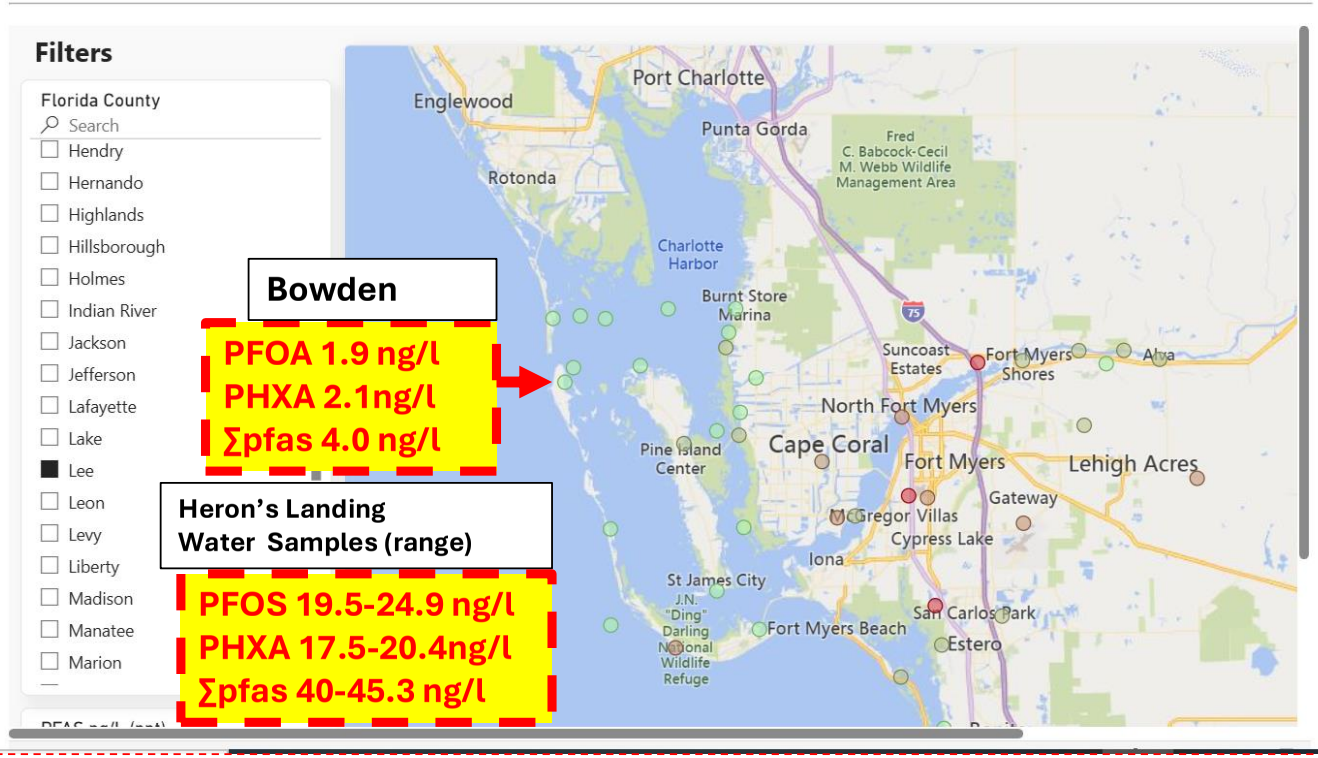



"Startling" Phosphorus 2900-2100 mg/kg (June 15, 2023)



Photograph Heron's Landing Lake (June 28, 2023)

https://www.bowdenlaboratory.com/florida-surface-water.html



https://www.bowdenlaboratory.com/florida-surface-water.html

**Table 3. PFAS Concentration (ng/L) by Florida County**[a]

| Florida county | no of samples | max ΣPFAS (ng/L) | mean ΣPFAS (ng/L) | standard deviation ΣPFAS (ng/L) | median ΣPFAS (ng/L) | no. unique PFAS[b] | Florida county | no of samples | max ΣPFAS (ng/L) | mean ΣPFAS (ng/L) | standard deviation ΣPFAS (ng/L) | median ΣPFAS (ng/L) | no. unique PFAS[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alachua | 80 | 411 | 56 | 74 | 49 | 19 | Lee | 50 | 141 | 32 | 29 | 22 | 21 |
| Baker | 10 | NA | NA | NA | NA | 4 | Leon | 21 | 42 | 10 | 11 | 5 | 14 |
| Bay | 41 | 279 | 16 | 49 | 4 | 15 | Levy | 16 | NA | NA | NA | NA | 4 |
| Bradford | 4 | 32 | 20 | 10 | 20 | 8 | Liberty | 3 | 19 | 11 | 8 | 11 | 9 |
| Brevard | 88 | 239 | 50 | 41 | 51 | 17 | Madison | 5 | 9 | 5 | 5 | 5 | 9 |
| Broward | 63 | 3048 | 71 | 385 | 16 | 19 | Manatee | 43 | 101 | 21 | 24 | 10 | 12 |
| Calhoun | 6 | 15 | 6 | 6 | 2 | 9 | Marion | 29 | 40 | 12 | 11 | 11 | 14 |
| Charlotte | 49 | 152 | 15 | 23 | 9 | 12 | Martin | 41 | 25 | 8 | 6 | 5 | 8 |
| Citrus | 35 | 15 | 15 | 15 | 15 | 4 | Miami-Dade | 104 | 86 | 24 | 21 | 18 | 17 |
| Clay | 18 | 141 | 46 | 43 | 29 | 14 | Monroe | 95 | 226 | 15 | 29 | 8 | 23 |
| Collier | 98 | 88 | 14 | 18 | 6 | 15 | Nassau | 42 | 90 | 16 | 22 | 4 | 15 |
| Columbia | 14 | 170 | 26 | 45 | 13 | 16 | Okaloosa | 49 | 185 | 31 | 42 | 12 | 18 |
| DeSoto | 8 | 29 | 22 | 7 | 22 | 9 | Okeechobee | 12 | 21 | 12 | 4 | 14 | 6 |

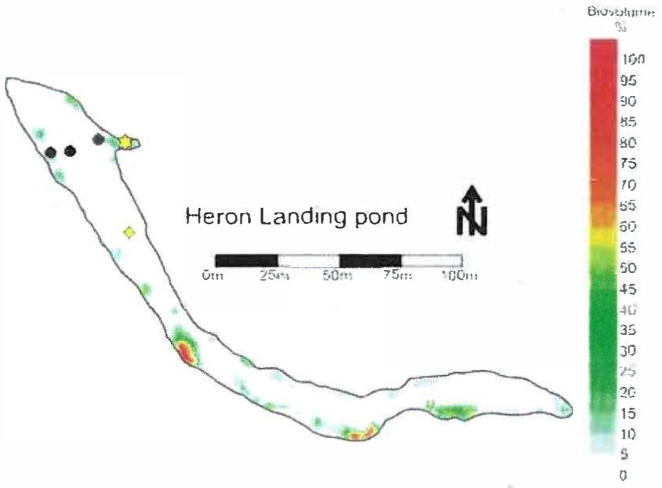



*Figure 27: SAV cover in Heron Landing pond*

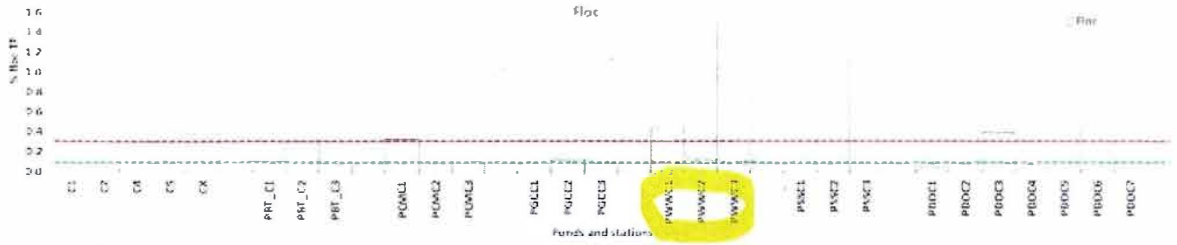



*Figure 28: TP content in the floc (2% TP equates to 20,000ug/g). The red dotted line refers to the average TP content in the floc of golf course ponds in Pelican Landing development. The green dotted line refers to the most pristine ponds (abutting a Preserve) in the same development.*

### v. Heron landing pond

The water column is being destratified in Heron Landing pond since the temperature curve represents mixing occurring between the epi and hypolimnion. DO are alarming low and typical of anoxia. pH is typical of brackish and saline water which agrees with the specific conductance. Specific conductance is also lower on the surface than in deeper water and shows a weak halo/pycnocline which is being destroyed. ORP is very negative showing a very reducing environment in par with the anoxia observed. Water clarity is very poor as PAR profiles prove very challenging as light would attenuate too quickly. Particulates other than phytoplankton and likely heterotrophic bacteria and other particulates attenuate light in the water column

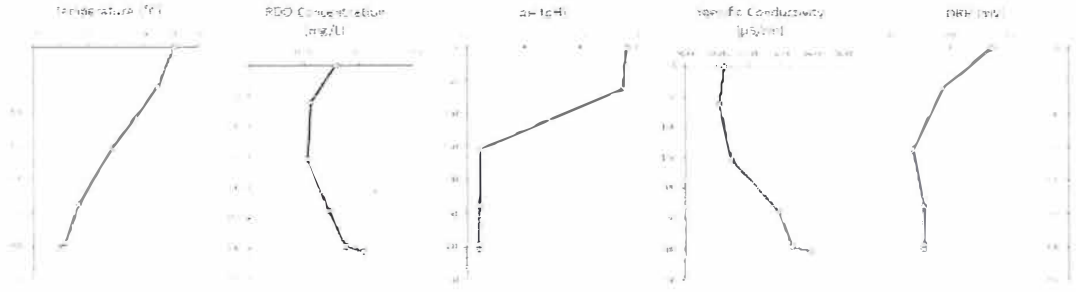



*Figure 29: (from left to right) Water column profiles of temperature, DO, pH, specific conductance and ORP in Heron Landing pond*

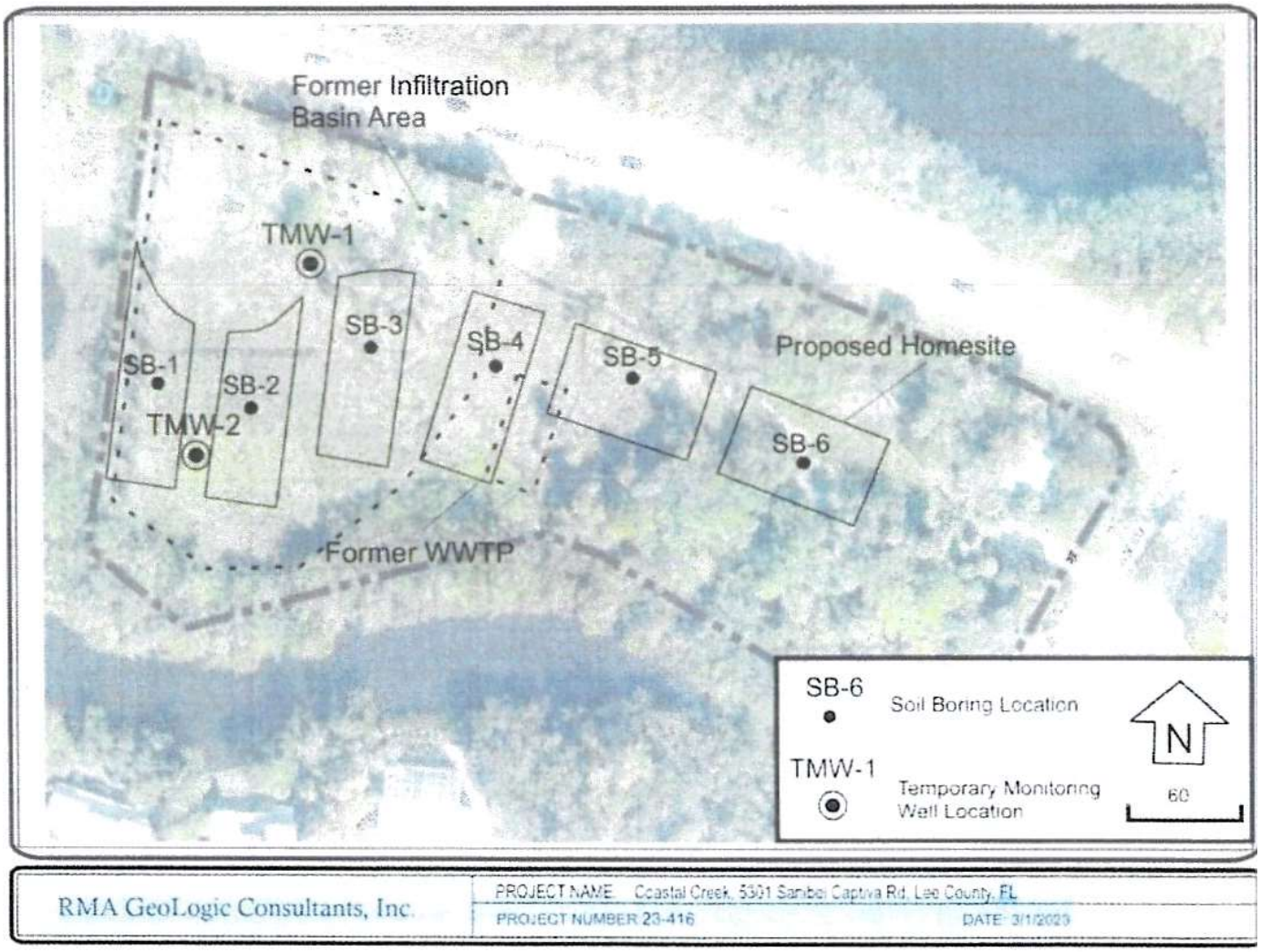
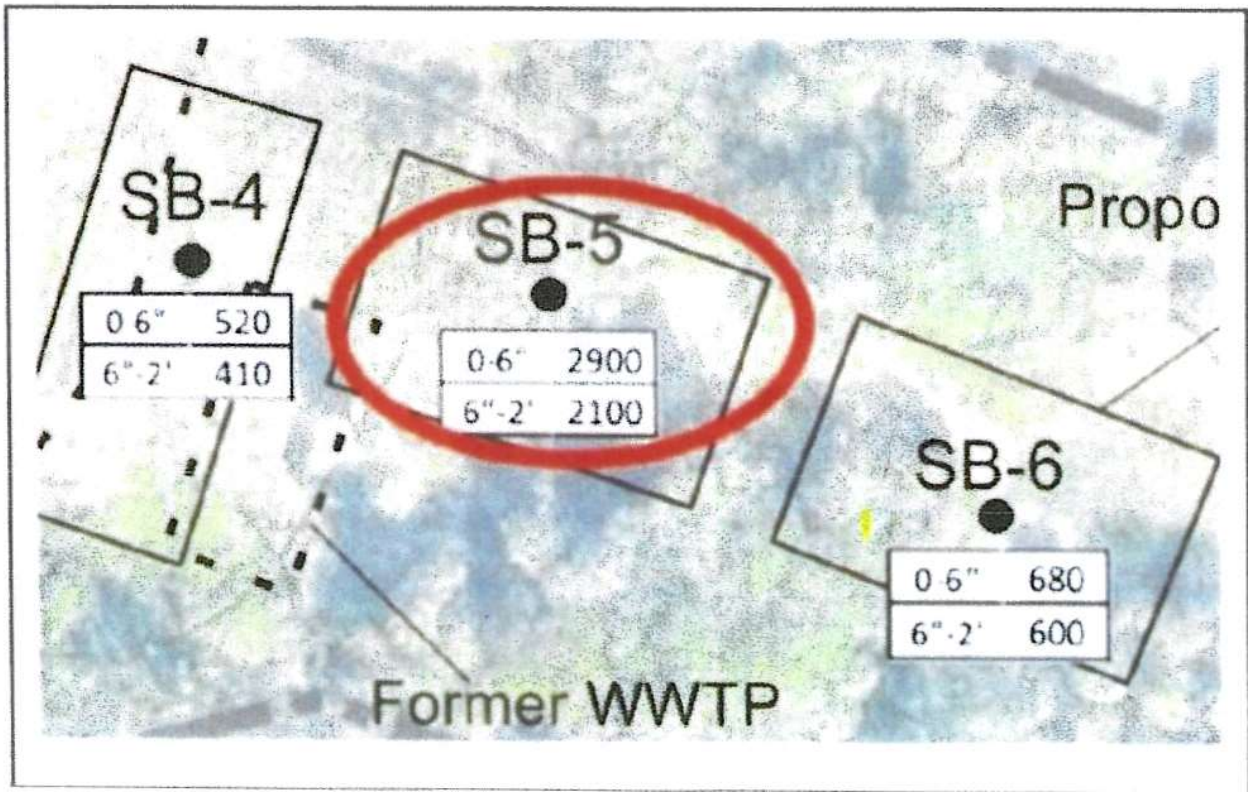



FIGURE 1 - Site Map Showing Former WWTP & Infiltration Basin, Future Homesites, and Soil and Groundwater Sample Locations



For canal reporting on Sanibel Island, please visit Sanibel Clean Canals




2023 Ranking of Concern

# 2

out of 23

Water Quality Grade 2023

F

View All Rankings

Sanibel Communities for Clean Water > Communities

## Heron's Landing

26.47001, -82.15974



Share on Facebook | Share on Twitter

Report Algae Blooms/Fish Kills

Have you implemented some best management practices here?

Let us know!

Data Summary

| Nutrients | 2018 | 2020 | 2022 | 2023 |
|---|---|---|---|---|
| IN | 0.028 | 0.409 | 0.112 | 0.86 |
| TN | 3.42 | 2.51 | 11.1 | 2.88 |
| OP | 2.97 | 1.845 | 0.622 | 0.49 |
| TP | 3.02 | 1.89 | 0.75 | 0.48 |
| Chl-*a* | 14.5 | 91 | 36.35 | 199.5 |
| TSI | 99.6 | 98.2 | 93.4 | 88 |
| Salinity | 14.5 | 18.5 | 9.55 | 26.1 |
| DO | 2.8 | 2.4 | 3.35 | 3.4 |

For canal reporting on Sanibel Island, please visit Sanibel Clean Canals

concerned) to 84 (least concerned) .

Recommendations

Alerts 0 new

Activity Tracker



## Aeration

Aeration prevents stratification, the separation of the water column into distinct layers, of dissolved oxygen. (continue reading)



## Floating Treatment Wetlands (FTWs)

A FTW is essentially a floating mat upon which plants grown hydroponically uptake excess nutrients via there root system. (continue reading)



## Lake-Friendly Landscaping/Gardening

Properly planned landscapes and gardens can greatly reduce impacts to water quality (continue reading)



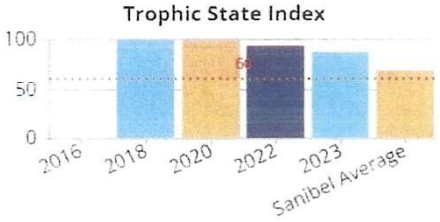
## Mechanical Removal of Algae and Aquatic Pest Plants

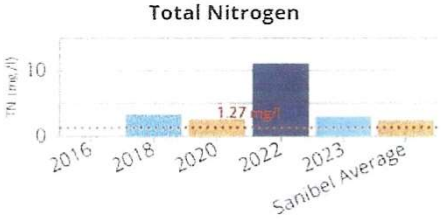


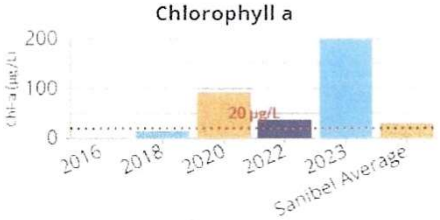

## Runoff Control

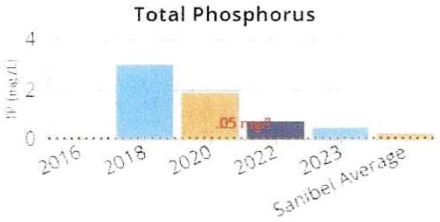
Homeowners should implement features that have the ability to deflect or slow roof and pavement runoff. (continue reading)

• • • • • = State Criteria: measurements above this line suggest impairment to the waterbody




## Historical Data

Rankings

2023 Ranking: 2

2016 Ranking: NR

Water Quality Grade

2023 Grade: F

2022 Grade: F

2020 Grade: F

2018 Grade: F

2016 Grade: NR

## Most Impaired - Top 5

1 Sanibel Island Golf Course: Reclaimed Water Pond

2 Pond Apple Park: Shipley Trail

3 Sanibel Bayous: Buck Key Road

4 Pond Apple Park: Reuse Pond

5 Heron's Landing

## Least Impaired - Top 5

84 Sanibel Lake Estates

83 Beach Road Villas

82 Twin Ponds (or Rancho Way)

81 Periwinkle Place

80 Pondiana Circle




NEWS & VIEWS

# Potentially dangerous levels of ‘forever chemicals’ found across Tampa Bay region

Researchers documented levels of PFAS that far exceed the EPA recommendations in Tampa Bay’s water, fish and sediments.

by **Vicki Parsons** and **Bay Soundings**
February 6, 2026



Credit: Michael O'Keene / Shutterstock

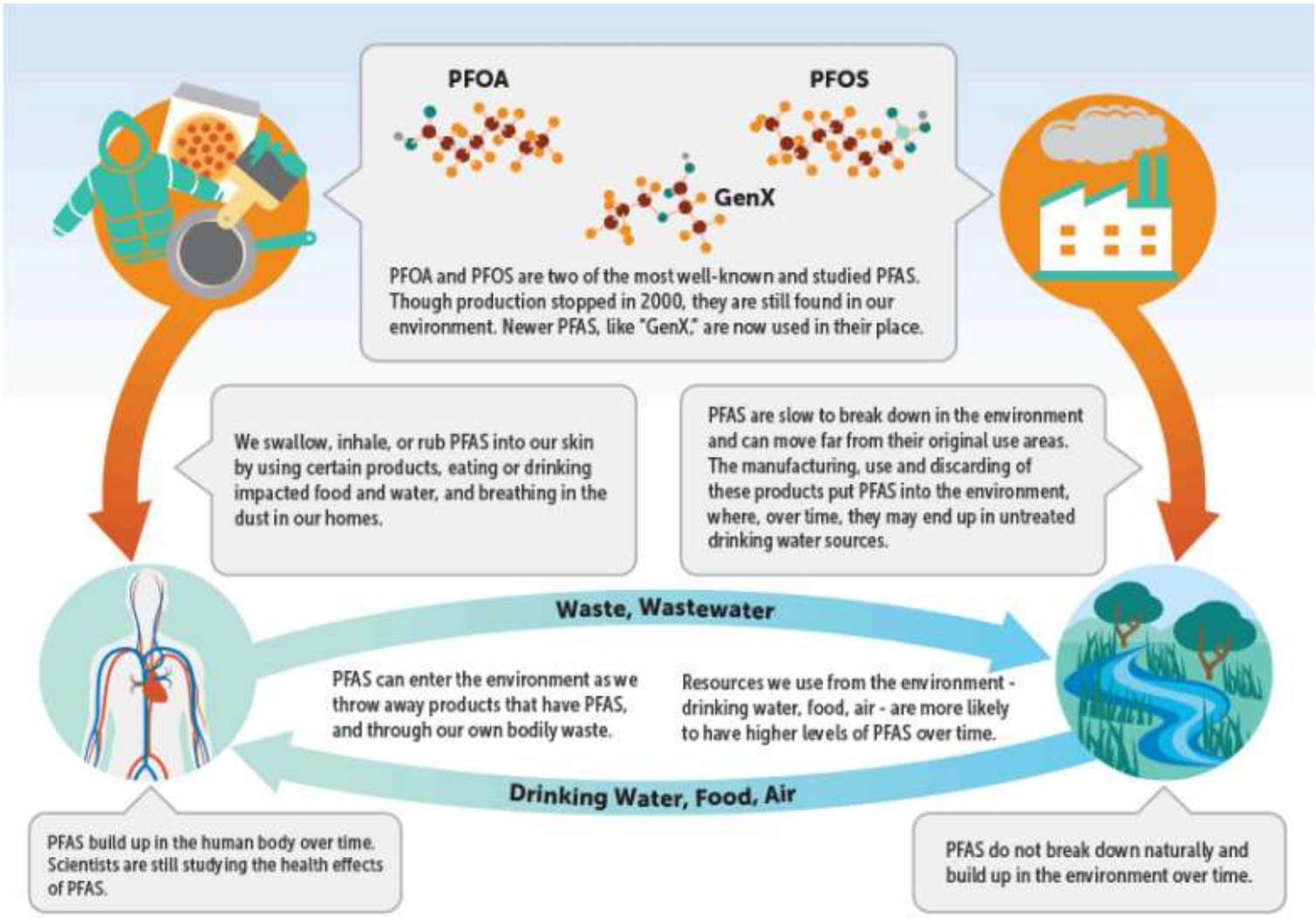
Advertisement

Like DDT when it was first introduced in the 1930s, PFAS were originally considered miracle products. They made fire-fighting foam more effective, prevented food from sticking to cookware, enabled water- and stain-resistant fabrics and carpets, and extended the wear time of lipstick and mascara. But like DDT, researchers are uncovering the dangers of PFAS long after they were unleashed in the world.

PFAS, formally known as per- and polyfluoroalkyl substances, have extraordinarily strong bonds so they're dubbed "forever chemicals." They're found nearly everywhere – from drinking water, dust and dairy products to fire-fighting foam, fish and food packaging. Researchers have linked them to a wide variety of illnesses, including decreased fertility in women, developmental delays in children, and an increased risk of some cancers such as prostate, kidney, and testicular cancer.

And they're toxic in such tiny concentrations that the Environmental Protection Agency's (EPA) standards for drinking water limit two types of PFAS to **four parts per trillion (ppt),** or about one drop of water in 20 Olympic-sized swimming pools.

While ongoing tests by Tampa Bay Water, the region's primary water utility, show that **PFAS levels meet standards** in most locations, the utility was awarded $21 million in a class-action lawsuit against PFAS manufacturers to treat water as needed.




Credit: Photo by Colin Hackley/NSF

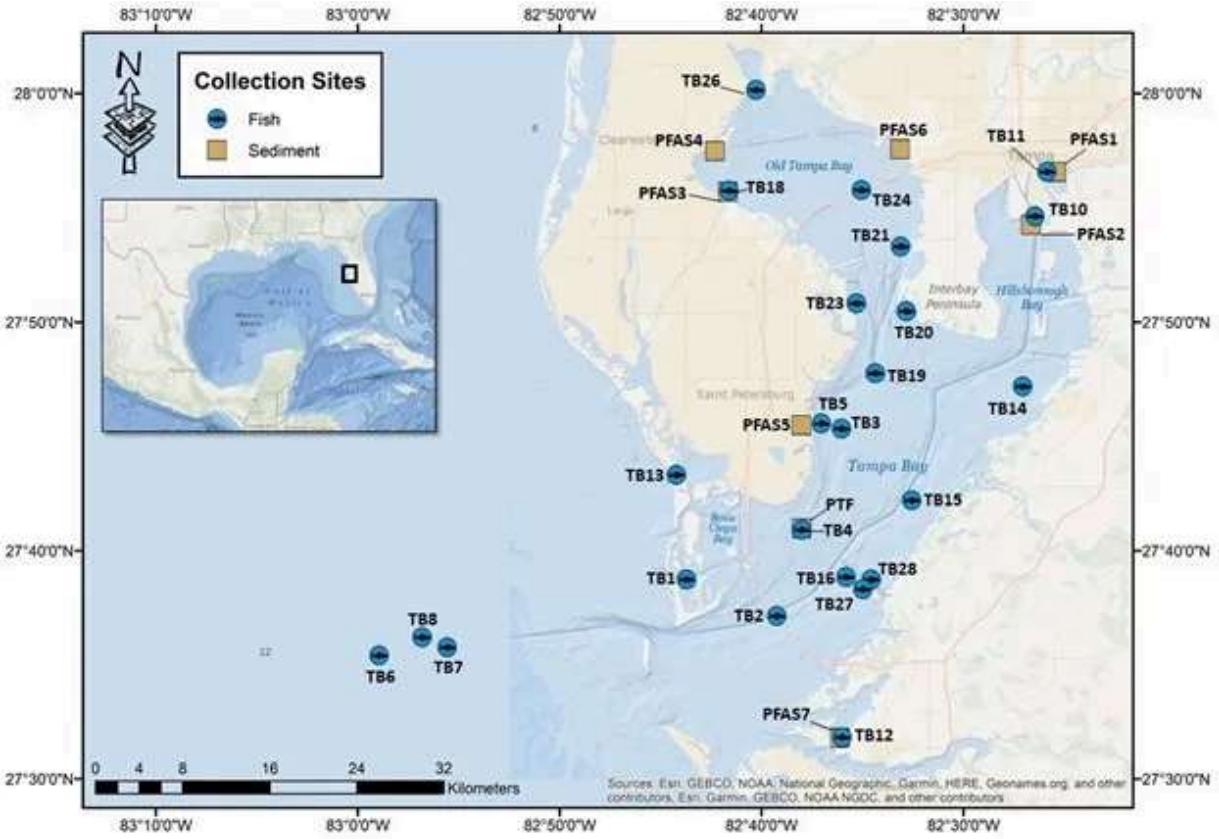
Although drinking water for much of the region appears to meet those standards, water, sediments, and fish in Tampa Bay often don't. Three researchers—John Bowden at the University of Florida (UF) and Steve Murawski and Sherryl Gilbert at the University of South Florida USF)—are documenting levels of PFAS that far exceed the EPA recommendations in Tampa Bay's water, fish and sediments.

Bowden, who sampled more than 2,300 sites in surface waters across the state with a team of citizen scientists, notes that **PFAS levels are significantly higher in Tampa Bay than in other areas**. Pinellas and then Hillsborough rank highest on the list of counties for hits above the maximum contaminant levels for PFAS found in Florida counties. "There's no clear source for them," he adds. "Military bases, where fire-fighting foam is used, are one source, but it doesn't explain high levels at other sites."

Wastewater spills, like those that often occur after heavy rain events, may also be implicated. Bowden compared data from the Florida Department of Environmental Protection documenting 7,395 wastewater

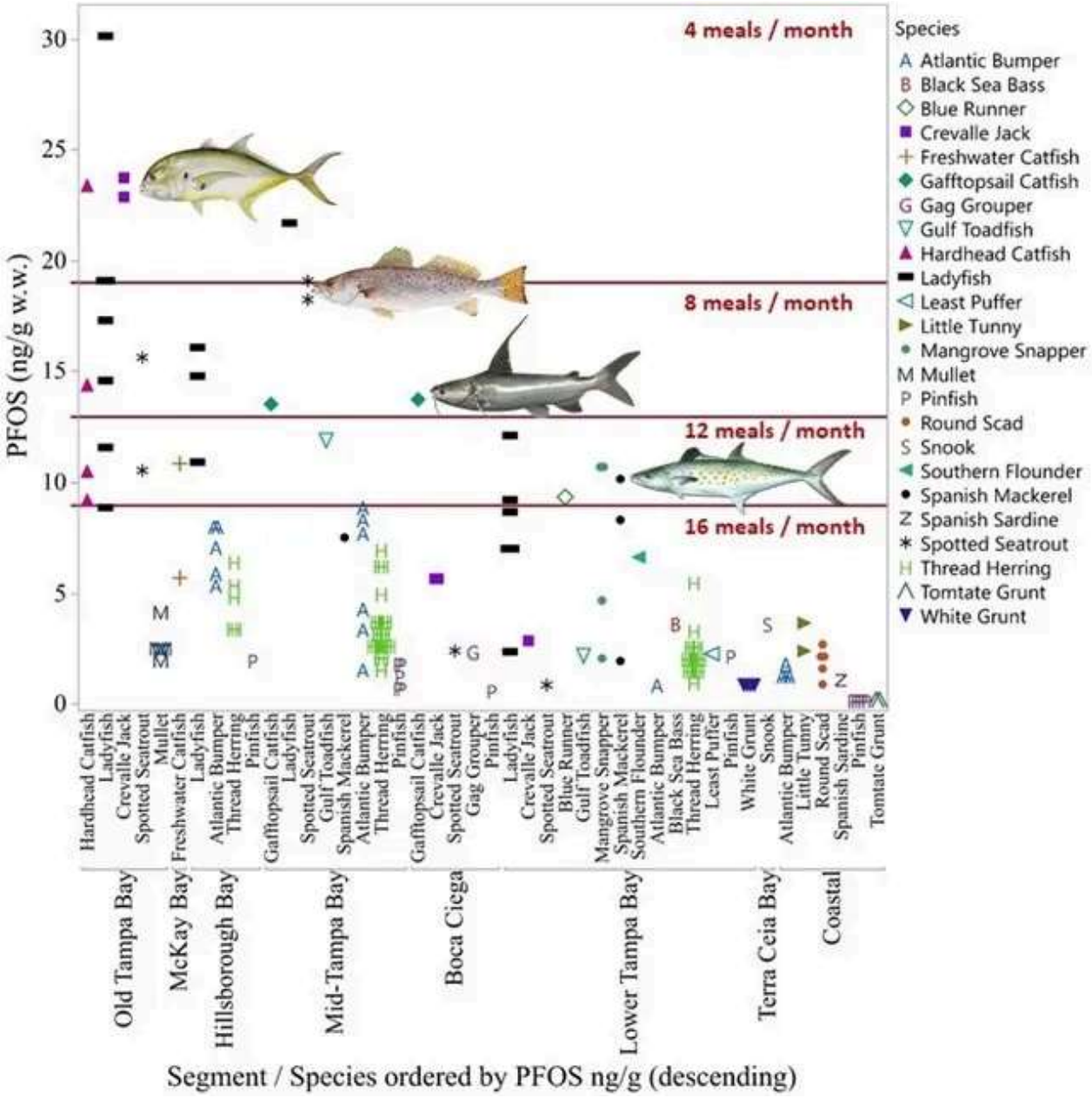
spills with the statewide PFAS heatmap, which showed a striking similarity. “More research is needed to investigate this potential source of PFAS pollution,” he said.

Even treated wastewater can be a source of PFAS because most facilities only remove about 10% of PFAS, Bowden adds. “Most of the contaminants in the processed material are dumped back into our waterways,” Bowden said. “If our drinking water comes from these sources, it will often contain PFAS. What should be alarming for all Floridians is that in the springs, which are often destined for use as drinking water, PFASs are present.”




Collection sites for samples in the USF study

Closer to home, Murawski and his team from USF had begun looking at **PFAS in Tampa Bay in 2020** and documented concentrations of more than 1,000 ppt in sediments in Old Tampa Bay and Hillsborough Bay, with lower concentrations noted in other bay segments. Perhaps more concerning is the extreme levels of PFAS in some fish caught in the bay. Catfish, ladyfish, and crevalle jack caught in Old Tampa Bay had concentrations of more than 20,000 ppt. According to guidelines drafted by the State of Michigan, fishermen should limit consumption of two of the most fish popular fish caught in Tampa Bay—snook and spotted seatrout.




Credit: Photo by Dave Decker

The **Tampa Bay Surveillance Project** is a five-year study that began in 2023 with $3.4 million in funding from the National Oceanic and Atmospheric Administration and the South Carolina Sea Grant Consortium. Murawski's team is taking a closer look at multiple contaminants in the bay and the living resources they impact. Along with PFAS, they are documenting levels of pharmaceuticals, herbicides and pesticides, and their potential impact on fish, oysters, and barnacles.

Their first efforts focus on the fish most likely to be eaten—including red drum, spotted seatrout, snook, and sheepshead—with a target of harvesting 10 of each fish in each of the bay's six segments four times a year. Separate studies looking at contaminant levels in oysters and barnacles also are planned.

A companion study, underway in partnership with Eckerd College, is looking at the effects of combined contaminants – including PFAS, pharmaceuticals, PCBs, PAHs and pesticides and other chemicals among **subsistence fishermen**.

The concept for the Tampa Bay Surveillance (TBS) project began more than 15 years ago with the Deepwater Horizon disaster. Scientists from USF were on the scene soon after the disaster and the team collected water samples and other critical information near the blowout site. Murawski went on to lead an international consortium that studied the environmental impacts of the oil spill, comprising 18 institutions and culminating in more than 250 scientific publications.

“Through our work on the spill, we learned a lot about the impacts of these contaminants and acquired highly specialized equipment to do the science,” Murawski said. “TBS is a natural extension of our work on Deepwater Horizon.”

*This is the second part in a three-part series on PFAS. The first,* **Diamonds have nothing on PFAS,** *focused on how PFASs became so widespread, and why they are dangerous. The third,* Avoiding PFAS: Easier said than done*, will be published on January 30.*

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## Recent Stories



### ‘We’ll see’: DeSantis won’t rule out another run for president

*His comment comes after he spent $160 million on his 2024 campaign for president before dropping out after the Iowa caucus.*

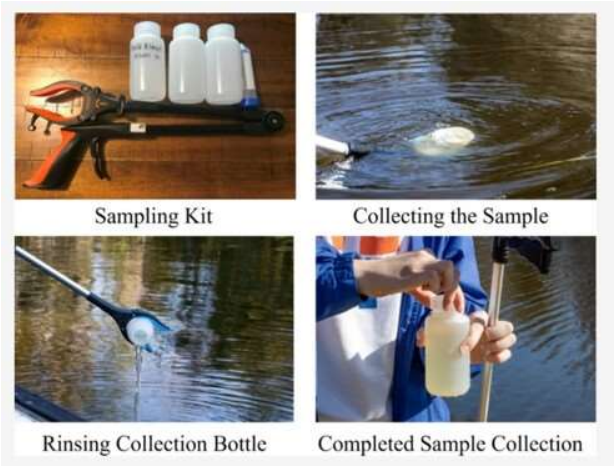




Florida's water bodies are vital for drinking, agriculture, recreation, tourism, and climate resilience. The monitoring of water quality is critical for the state, with consequences for both human health and the economy. This work describes our statewide monitoring of per- and polyfluoroalkyl substances (PFAS) within a myriad of water bodies in Florida to establish a PFAS baseline and determine hotspots. Surface water samples were obtained between April 2020 and December 2021, from 2323 sites, via crowdsourcing from all 67 counties in Florida and were subsequently analyzed for 50 PFAS via high-performance liquid chromatography-tandem mass spectrometry. The mean concentration of ΣPFAS across Florida was 29 ng/L, with a maximum ΣPFAS

were created. First attempts were made to identify possible PFAS pollution sources by overlaying suspect entities (airports, military installations, and wastewater treatment plants), in addition to relating data to historical pollution spill notifications (e.g., wastewater influent, effluent, and sludge).

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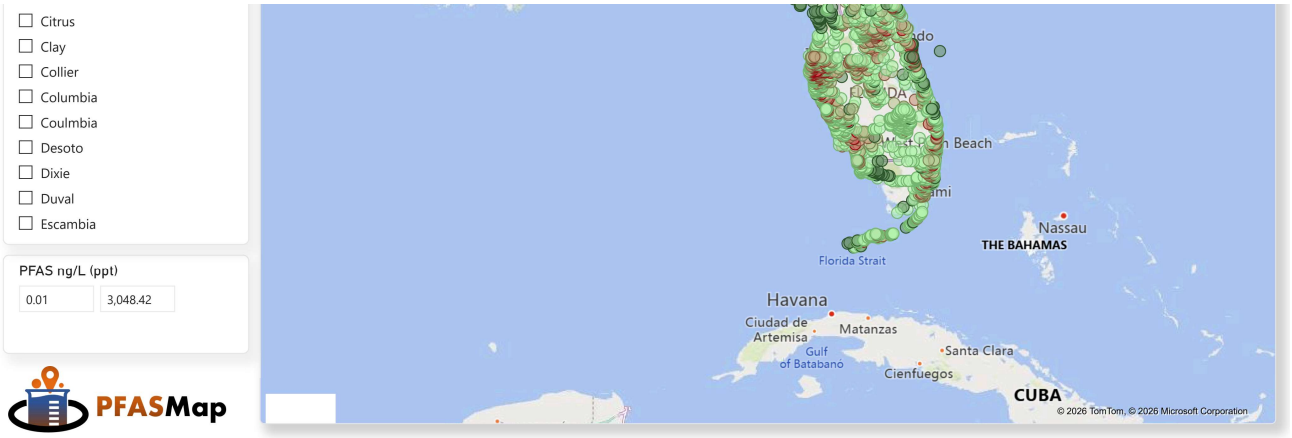

To provide an efficient statewide collection of surface water samples in Florida, a water collection program, consisting of two crowdsourcing cycles, was implemented. The first crowdsource cycle engaged >120 undergraduate students at the University of Florida via social media outreach. The second cycle of water sampler recruitment focused on engaging >70 citizen scientists and environmentally focused organizations

geographical representation. While some sites in proximity to potential pollution sources were targeted, maximizing geographical coverage of Florida remained one of the main objectives in this study. In addition to written instructions, we also provided a YouTube training video to supplement sampler training. By utilizing crowdsourcing, we were able to collect 2323 surface water samples in all 67 counties in Florida

---

Below is a map of all sites sampled in Florida. You can search by county or you can zoom in on the map for the region you want to check. Once you have a site you would like to see the PFAS concentrations, put your cursor over the dot and an information window should pop up. In the information box, only those PFAS that were detected are shown (concentration in ng/L or ppt). Note that for some locations, the GPS coordinates may be slightly off, in these instances, the concentrations are from the water body closest to the point. Remember that the pending MCL for PFOA and PFOS is 4 ppt (ng/L).

---




Microsoft Power BI




(A) Map of Florida with dots representing all surface water sampling sites with quantifiable levels of PFAS (n = 2056). Dot color corresponds to the measured ΣPFAS concentration, according to the key. Six regions (light gray circles) with high densities of yellow/red circles, indicating elevated levels of ΣPFAS, are highlighted. (B) Predictive heat map of Florida PFAS levels based on the measured ΣPFAS concentrations of the surface water samples. These predictions are extrapolated from surface water values and do not intend to describe land PFAS values.

---

**Table 1. Concentrations and Frequencies of Individual PFAS (and Sum, Σ) across the State of Florida[a]**

| PFAS | frequency detection | frequency quantified | frequency by county | mean (ng/L) | max (ng/L) | median (ng/L) |
|---|---|---|---|---|---|---|
| PFOA | 94% | 83% | 100% | 5 | 81 | 3 |
| PFBS | 65% | 64% | 93% | 5 | 48 | 4 |
| PFHxA | 61% | 61% | 82% | 6 | 180 | 4 |
| PFNA | 54% | 39% | 96% | 2 | 352 | 1 |
| PFOS | 53% | 48% | 91% | 10 | 1135 | 6 |
| PFHpA | 53% | 44% | 87% | 5 | 84 | 4 |
| PFHxS | 50% | 17% | 94% | 17 | 365 | 12 |
| PFDA | 33% | 16% | 90% | 2 | 27 | 2 |
| Syn35 | 24% | 1% | 75% | 6 | 24 | 5 |
| PFHxPA | 16% | 14% | 54% | 15 | 322 | 10 |
| FBSA | 11% | 11% | 42% | 5 | 85 | 5 |
| Syn32 | 9% | 6% | 21% | 1 | 7 | 1 |
| PFPrS | 5% | 3% | 51% | 5 | 24 | 4 |
| PFUdA | 4% | 4% | 42% | 3 | 114 | 2 |
| PFPeS | 3% | 0% | 36% | 29 | 58 | 20 |
| 4_2FTS | 3% | 0% | 25% | 1 | 1 | 1 |
| PFDoA | 3% | 2% | 25% | 1 | 4 | 1 |
| PFECHS | 3% | 0% | 31% | 2 | 5 | 2 |
| FHxSA | 2% | 2% | 27% | 19 | 320 | 10 |
| Oak6 | 2% | 0% | 22% | 1 | 3 | 1 |
| Syn34 | 2% | NA | 24% | NA | NA | NA |
| P4MOA | 2% | 0% | 13% | 4 | 12 | 2 |
| **ΣPFAS** | **NA** | **NA** | **NA** | **29** | **3048** | **13** |

a Data for all sampling sites (n = 2323) sorted by detection frequency. Excluding those PFAS with less than 30 detection hits (<2% of samples). Peaks determined to be < LOD or < LOQ were not utilized in calculating the mean or median concentrations. However, peaks LOD < x < LOQ were used in calculating detection frequency. Internal laboratory abbreviations defined as perfluoro-3,7-

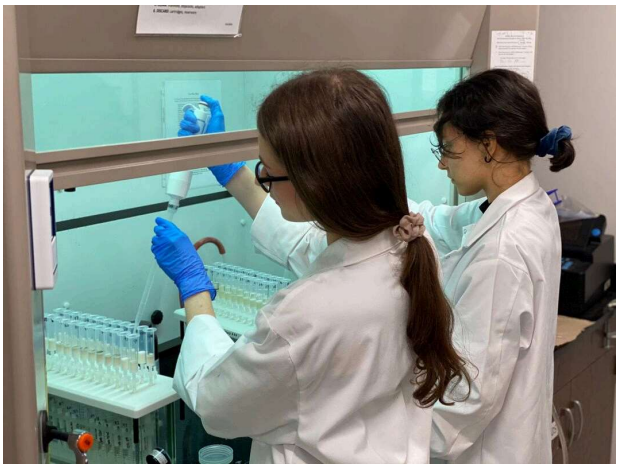
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Citrus | 35 | 15 | 15 | 15 | 15 | 4 | Miami-Dade | 104 | 86 | 24 | 21 | 18 | 17 |
| Clay | 18 | 141 | 46 | 43 | 29 | 14 | Monroe | 95 | 226 | 15 | 29 | 8 | 23 |
| Collier | 98 | 88 | 14 | 18 | 6 | 15 | Nassau | 42 | 90 | 16 | 22 | 4 | 15 |
| Columbia | 14 | 170 | 26 | 45 | 13 | 16 | Okaloosa | 49 | 185 | 31 | 42 | 12 | 18 |
| DeSoto | 8 | 29 | 22 | 7 | 22 | 9 | Okeechobee | 12 | 21 | 12 | 4 | 14 | 6 |
| Dixie | 14 | 5 | 3 | 3 | 3 | 4 | Orange | 57 | 133 | 36 | 26 | 26 | 20 |
| Duval | 59 | 867 | 62 | 135 | 26 | 16 | Osceola | 26 | 524 | 55 | 99 | 39 | 20 |
| Escambia | 52 | 118 | 12 | 21 | 4 | 11 | Palm Beach | 113 | 465 | 27 | 52 | 13 | 20 |
| Flagler | 26 | 17 | 9 | 8 | 6 | 10 | Pasco | 32 | 76 | 15 | 17 | 8 | 12 |
| Franklin | 25 | 10 | 4 | 3 | 4 | 11 | Pinellas | 120 | 500 | 56 | 60 | 41 | 25 |
| Gadsden | 6 | 18 | 10 | 6 | 9 | 14 | Polk | 57 | 97 | 34 | 25 | 32 | 15 |
| Gilchrist | 6 | 3 | 1 | 1 | 1 | 7 | Putnam | 17 | 25 | 7 | 6 | 6 | 8 |
| Glades | 42 | 19 | 11 | 3 | 11 | 12 | Santa Rosa | 36 | 279 | 24 | 63 | 6 | 20 |
| Gulf | 28 | 79 | 10 | 17 | 4 | 10 | Sarasota | 91 | 115 | 29 | 28 | 20 | 20 |
| Hamilton | 6 | 10 | 3 | 3 | 1 | 8 | Seminole | 22 | 121 | 39 | 26 | 37 | 12 |
| Hardee | 1 | 31 | 31 | 31 | 31 | 6 | St. Johns | 62 | 311 | 22 | 45 | 12 | 19 |
| Hendry | 12 | 25 | 12 | 6 | 12 | 8 | St. Lucie | 21 | 47 | 19 | 14 | 16 | 13 |
| Hernando | 10 | 23 | 7 | 7 | 5 | 9 | Sumter | 11 | 57 | 23 | 17 | 22 | 9 |
| Highlands | 25 | 60 | 23 | 15 | 17 | 16 | Suwannee | 9 | 4 | 2 | 1 | 2 | 6 |
| Hillsborough | 89 | 354 | 42 | 53 | 28 | 22 | Taylor | 8 | 6 | 3 | 3 | 1 | 4 |
| Holmes | 4 | 1 | 1 | 0 | 1 | 2 | Union | 9 | 22 | 9 | 8 | 4 | 9 |
| Indian River | 28 | 12 | 7 | 3 | 7 | 8 | Volusia | 58 | 98 | 19 | 23 | 10 | 15 |
| Jackson | 11 | 21 | 5 | 8 | 1 | 9 | Wakulla | 24 | 18 | 6 | 5 | 3 | 12 |
| Jefferson | 7 | 3 | 1 | 1 | 1 | 4 | Walton | 18 | 29 | 6 | 9 | 4 | 12 |
| Lafayette | 7 | 1 | 1 | 0 | 1 | 4 | Washington | 8 | 2 | 1 | 0 | 1 | 4 |
| Lake | 42 | 49 | 17 | 9 | 15 | 17 | | | | | | | |

b Indicates that these PFAS were detected in at least one sample per county. Peaks determined to be < LOD or < LOQ were not utilized in calculating the mean or median concentrations.

| | | | |
|---|---|---|---|
| Polk ($n$ = 57) | 43 (75%) | Okaloosa ($n$ = 49) | 38 (78%) |
| Broward ($n$ = 63) | 36 (57%) | Palm Beach ($n$ = 113) | 36 (32%) |
| Volusia ($n$ = 58) | 30 (52%) | Duval ($n$ = 59) | 31 (53%) |
| Lee ($n$ = 50) | 28 (56%) | St. Johns ($n$ = 62) | 30 (48%) |
| Duval ($n$ = 59) | 27 (46%) | Lee ($n$ = 50) | 26 (52%) |
| Collier ($n$ = 98) | 23 (23%) | Volusia ($n$ = 58) | 23 (40%) |
| St. Johns ($n$ = 62) | 22 (35%) | Broward ($n$ = 63) | 18 (29%) |
| Martin ($n$ = 41) | 20 (49%) | Manatee ($n$ = 43) | 18 (42%) |
| Seminole ($n$ = 22) | 20 (91%) | Polk ($n$ = 57) | 18 (32%) |
| Osceola ($n$ = 26) | 17 (65%) | Highlands ($n$ = 25) | 17 (68%) |
| Lake ($n$ = 42) | 16 (38%) | Martin ($n$ = 41) | 16 (39%) |
| Clay ($n$ = 18) | 15 (83%) | Osceola ($n$ = 26) | 16 (62%) |
| Pasco ($n$ = 32) | 15 (47%) | Clay ($n$ = 18) | 14 (78%) |
| Escambia ($n$ = 52) | 14 (27%) | Nassau ($n$ = 42) | 12 (29%) |
| Highlands ($n$ = 25) | 13 (52%) | Collier ($n$ = 98) | 10 (10%) |
| Manatee ($n$ = 43) | 13 (30%) | Lake ($n$ = 42) | 10 (24%) |
| Nassau ($n$ = 42) | 13 (31%) | | |
| Charlotte ($n$ = 49) | 12 (24%) | | |
| Okaloosa ($n$ = 49) | 10 (20%) | | |

a Percentages indicate the ratio of Hits above the MCL to the total number of samples collected in each respective county. b Only shown are counties with at least 10 hits.



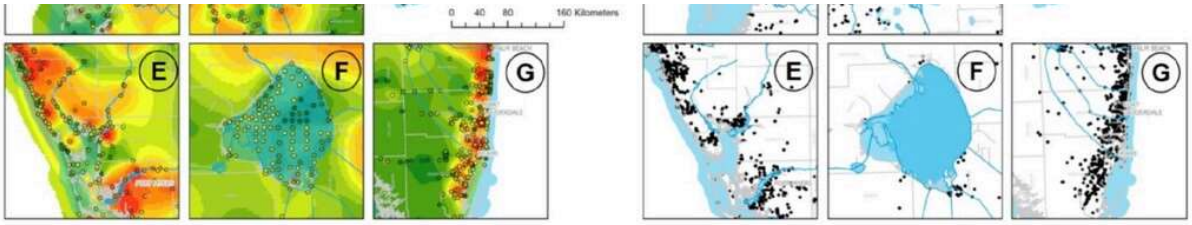




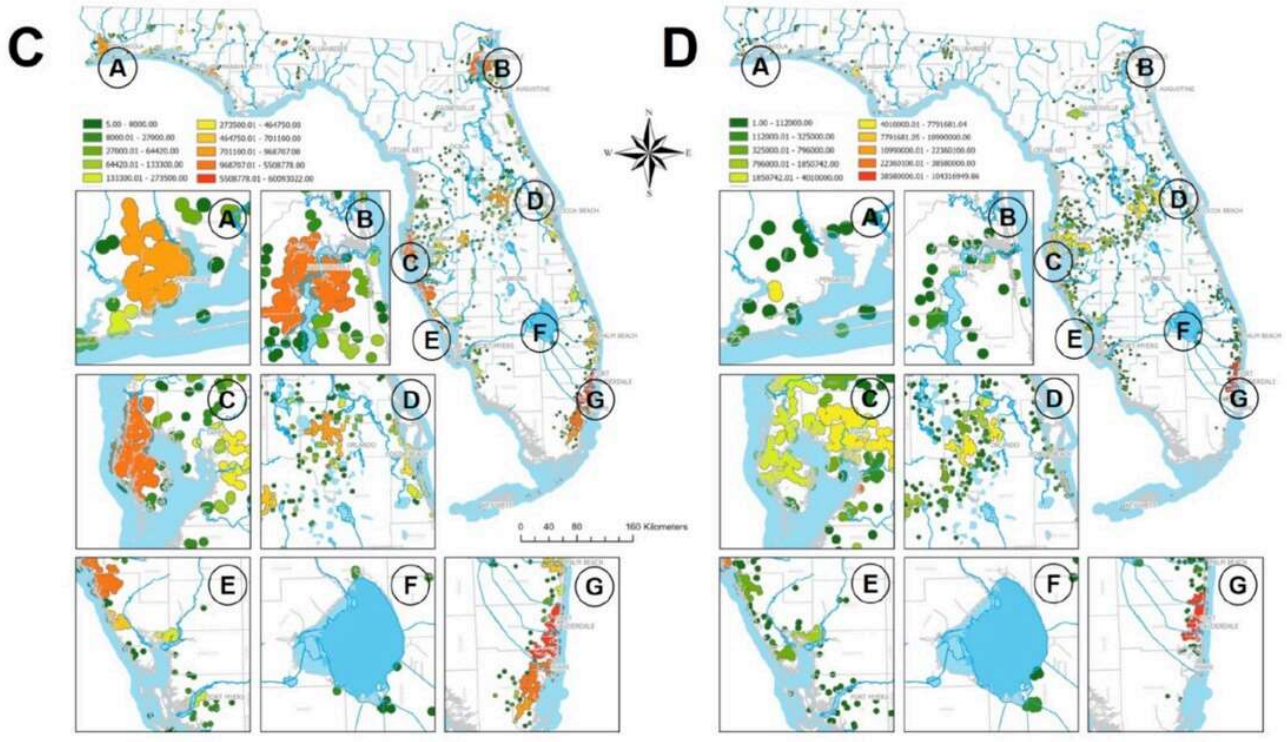

Zoomed in heat map of Pinellas and Hillsborough County Florida for individual PFAS. The redder the dot and heat map, the higher sum PFAS concentration.

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Since 2017, the FDEP has documented every pollution based spill, as self-reported by local entities. This information is publicly available at **here**. Exporting all pollution notices prior to 2022 (up to last surface water sample collected in this study), we found a total of 7395 spills with GPS coordinates (this is after removing duplicates and citations with inaccurate coordinates). Over these 7395 spills, approximately 78% of these listed estimated volumes (in gallons) for what was spilled. The spill type and amount were tallied from the incident reports and organized into five categories (with number of incidents prior to 2022): raw sewage (2152), untreated/partially treated wastewater (1936), treated wastewater (755), solids (sludge/biosolids, 111), and various liquids (e.g., fuel, 765, liquid which did not fit into the other four categories). Summing all the estimated spills per category (in gallons), resulted in high volumes spilled: raw sewage (104 million gallons), untreated/ partially treated wastewater (341 million gallons), treated wastewater (970 million gallons), solids/sludge (2.3 million gallons), and various liquids (10 million gallons). Note that within these incident reports, a significant contributor to spills occurrence was large episodic weather events, such as hurricanes, flooding and overflows. A map that shows all spill locations (prior to 2022) is shown in Figure B below. We then compared the location and quantity spilled with the PFAS heatmap (A), notice any similarities?? More research is needed to investigate this potential source of PFAS pollution.



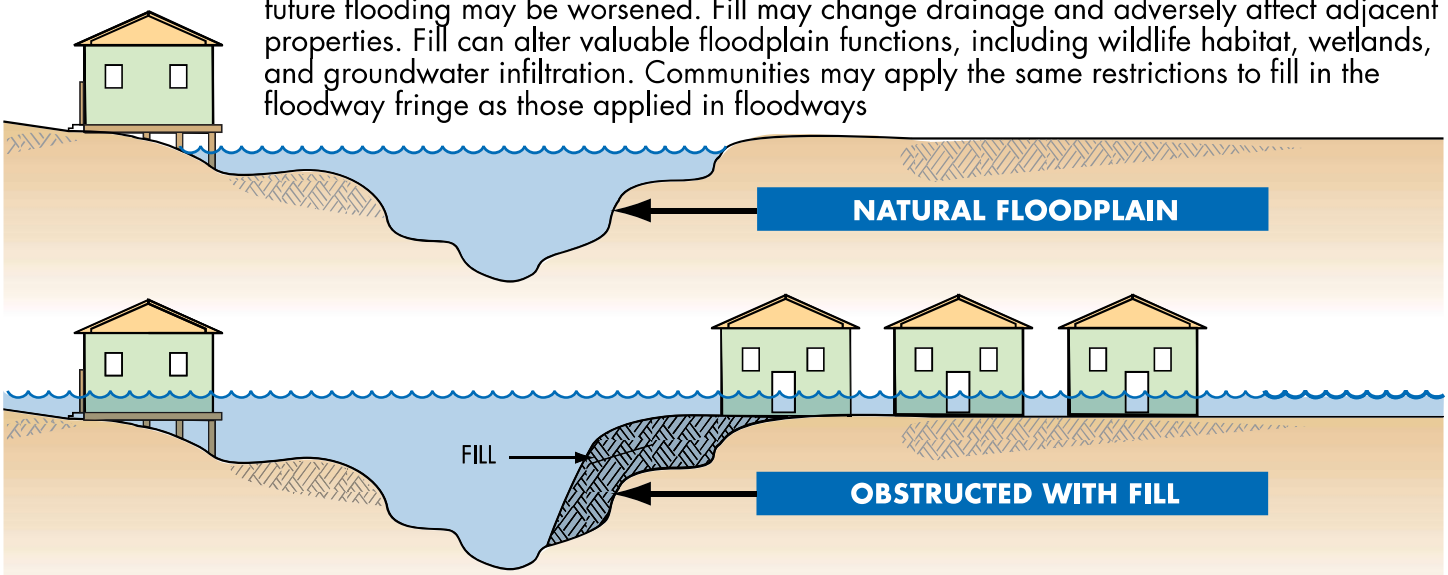

(A) Predictive heat map for ΣPFAS, (B) Map of Florida with all reported spill locations by the FDEP between 2017 and 2022. All maps include regional inserts around (A) Pensacola, (B) Jacksonville, (C) Tampa Bay, (D) Orlando/Cocoa Beach, (E) Sarasota/Ft Myers, (F) Lake Okeechobee, and (G) Miami/Ft Lauderdale.




(C) Map of Florida with reported raw sewage spills (in gallons), and (D) Map of Florida with reported untreated/partially treated wastewater spilled (in gallons). All maps include regional inserts around

## Fill Can Adversely Affect Floodplain Functions

Floodplains are supposed to store floodwater. If storage space is blocked by fill material, future flooding may be worsened. Fill may change drainage and adversely affect adjacent properties. Fill can alter valuable floodplain functions, including wildlife habitat, wetlands, and groundwater infiltration. Communities may apply the same restrictions to fill in the floodway fringe as those applied in floodways

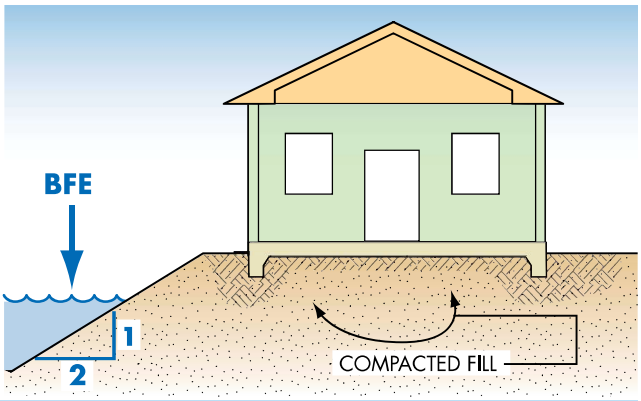



Communities should make sure fill in flood zones won't harm neighboring properties. Before deciding to use fill, property owners should check with local planning, engineering, or permit offices. Engineering analyses may be required to demonstrate that fill will cause "no rise" (see page 13).

## Placement and Compaction of Fill in Zone A/AE

Earthen fill used to raise the ground above the flood elevation must be placed properly so that it does not erode or slump when water rises. For safety and to meet requirements, fill should:

- Not be placed in areas with poor drainage or where the fill may divert water onto adjacent properties. Instead, use perimeter walls, piers or pilings to minimize drainage problems.
- Be good clean soil, free of large rocks, construction debris, and woody material (stumps, roots)
- Be machine-compacted to 95 percent of the maximum density (determined by a design professional)
- Have graded side slopes that are not steeper than 2:1 (one foot vertical rise for every 2 feet horizontal extent); 3:1 flatter slopes are recommended
- Have slopes protected against erosion (vegetation for "low" velocities, durable materials for "high" velocities – determined by a design professional)
- Avoid the floodway (see page 12)




Engineers can find more information in FEMA's instructions for Letters of Map Revision based on Fill (FEMA Form MT-1) and NFIP Technical Bulletin #10.

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-10**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RELATING TO PERMIT APPLICATION NO. SPLT-2022-000074 FILED PURSUANT TO SECTIONS 82-421(1), 82-422, AND 114-106 OF THE LAND DEVELOPMENT CODE FOR REVISION OF AN APPROVED PRELIMINARY PLAT, TO AMEND ALLOCATED IMPERMEABLE COVERAGE FOR LOTS 1 THROUGH 6 AT A UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) DEVELOPMENT KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5325 AND 5301 SANIBEL CAPTIVA ROAD, PARCEL NOS. 13-46-21-T2-00002.4000 AND 13-46-21-T2-00002.2000, RESPECTIVELY, MORE FULLY DESCRIBED HEREIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** Sections 82-421 and 82-422 of the Land Development Code detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 of the Land Development Code provides for requirements and procedures for preliminary plats; and

**WHEREAS,** Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner of the property located at 5325 and 5301 Sanibel Captiva Road has authorized Brain Smith, Ensite, Inc., to submit Subdivision Plat Application No. SPLT-2022-000074 to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" Subdivision; and

**WHEREAS**, the application seeks to amend the preliminary plat of the Coastal Creek Subdivision, previously approved by the Planning Commission Resolution 23-24, so that the preliminary plat accurately reflects the maximum allowable impermeable coverage on lots 1 through 6 within the subdivision; and

**WHEREAS,** a duly noticed public hearing of the subject applications, seeking revision of the previously-approved preliminarily plat, was held before the Planning Commission on March 24, 2026; and

**WHEREAS,** after providing the applicant, staff, and the public an opportunity to present testimony and evidence, and having reviewed the record, and all applicable sections of the Land Development Code, the Planning Commission finds that the criteria for granting the application have been / have not been met and that the application should therefore be approved/denied.

**NOW, THEREFORE, BE IT RESOLVED, THE PLANNING COMMISSION OF THE CITY OF SANIBEL** finds that Subdivision Plat Application No. SPLT-2022-000074 to amend allocated impermeable coverage for lots 1 through 6 at a unified residential housing (cluster housing) development known as "Coastal Creek" Subdivision, on property owned by Buckingham 225 Development, Inc. (Daniel W. Dodrill), and located at 5325 and 5301 Sanibel Captiva Road, and more fully identified as Parcel Nos. 13-46-21-T2-00002.4000 and 13-46-21-T2-00002.2000, respectively, is hereby approved.

Any approval of this Permit Application is pursuant to the application and attachments included with these items, and subject to the following condition(s) contained in the March 24, 2026, staff report:

All 24 conditions of the preliminary plat approval found in Planning Commission Resolution 23-24 (attached hereto as Exhibit A) and upheld by City Council Resolution 23-049 (attached hereto as

Exhibit B) remain in full force and effect, with the exception that the originally approved preliminary plat is hereby replaced with the amended preliminary plat (attached hereto as Exhibit C).

**EXPIRATION OF PLANNING COMMISSION ACTION;** In accordance with Land Development Code Section 82-424(f), when a development order is approved with conditions imposed thereon, such conditions shall be satisfied within the time limit specified in the development order issued by the Planning Commission. When such conditions specify requirements to be completed before a development permit is issued, and no particular time limit is specified for satisfaction of the conditions, such conditions must be satisfied within six months after issuance of the development order. Failure to satisfy a condition imposed upon the approval of a development permit, within the time limit specified therefor, or such extended time period as the Planning Commission may approve upon timely application of the permittee, shall cause the development order approving the development permit to be null and void and of no further force or effect.

**EFFECTIVE DATE OF PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-97, all actions of the Planning Commission, including those which constitute final decisions, shall be effective upon the date of filing of the adopted Resolution with the City Manager, or at a later date if provided in the Resolution. However, permits authorized by final decisions shall not be issued until one of the following has occurred: 1) The time for filing an appeal to City Council has elapsed; 2) The applicant and all other persons having appeal rights have filed a written waiver of appeal rights; 3) If an appeal has been timely filed, the City Council has finally disposed of the matter.

**RIGHT TO APPEAL PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-98. Appeals. The applicant is hereby advised that the following persons have the right to appeal a final decision of the Planning Commission adverse to their interests: 1) The applicant; 2) The owner of the property proposed for development; 3) The developer of the property proposed for development; and 4) Any other person residing upon, or owning property within the City, or owning or operating a business within the City, who participated by written comment before or at the Planning Commission hearing or who participated in person or through an authorized agent at the Planning Commission hearing. The appeal shall be filed within 15 days after the date that the Planning Commission decision was filed. The appeal shall be filed with the City manager, and the filing fee shall be paid as a prerequisite to filing.

**DISCLAIMER & PERMIT CONDITION (APPLICABLE ONLY IF FEDERAL OR STATE PERMITS ARE REQUIRED):** Issuance of a development permit by the City does not create any right to obtain a permit from a State or Federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a State or Federal agency or undertakes actions that result in a violation of State or Federal law. If applicable, all other State or Federal permits must be obtained before commencement of the project.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Aye |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

## EXHIBIT A OF RESOLUTION

**Agenda Item 7.b.**
**Meeting of July 25, 2023**

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 23-24**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL; RELATING TO A DEVELOPMENT PERMIT (APPLICATION NO. SPLT-2022-000074 AND DP-2021-001803) FILED PURSUANT TO SECTIONS 82-421(1), 82-422, AND 114-106 OF THE LAND DEVELOPMENT CODE FOR PRELIMINARY PLAT, TO ALLOW A UNIFIED RESIDENTAIL HOUSING (CLUSTER HOUSING) DEVELOPMENT INCLUDING SIX PARCELS FOR SINGLE-FAMILY RESIDENTIAL USE AND ASSOCIATED IMPROVEMENTS, KNOWN AS "COASTAL CREEK" SUBDIVISION, ON PROPERTY OWNED BY BUCKINGHAM 225 DEVELOPMENT, INC. (DANIEL W. DODRILL), AND LOCATED AT 5301-5326 SANIBEL CAPTIVA ROAD, PARCEL NO. 13-46-21-T2-00002.2000 AND 13-46-21-T2-00002-4000, MORE FULLY DESCRIBED HEREIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS,** Sections 82-421(1) and 82-422 of the Land Development Code detail the application and notice requirements for development permit consideration by the Planning Commission; and Section 114-106 of the Land Development Code provides for requirements and procedures for preliminary plats; and

**WHEREAS,** Buckingham 225 Development, Inc. (Daniel W. Dodrill), owner of the property located at 5301-5326 Sanibel Captiva Road, has authorized Brian Smith, Ensite, Inc., to submit Development Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 (the "subject applications") to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision; and

**WHEREAS,** the subject applications were initially approved by Sanibel Planning Commission Resolution 23-001; however, a timely appeal of Planning Commission Resolution 23-001 was filed pursuant to Land Development Code Section 82-98 – Appeals; and City Council, after consideration of the appeal, remanded the subject applications back to Planning Commission for a new hearing by Sanibel City Council Resolution 23-024; and

**WHEREAS,** the applicant has reiterated its requests for approval of the subject applications; and

**WHEREAS,** a duly noticed public hearing of the subject applications was held before the Planning Commission on July 25, 2023; and

**WHEREAS,** after providing the applicant, staff, and the public an opportunity to present testimony and evidence, and having reviewed the record, and all applicable sections of the Land Development Code including Section 86-40(b), the Planning Commission finds that the criteria for granting the applications have been met and that the application should therefore be approved.

**NOW, THEREFORE, BE IT RESOLVED, THE PLANNING COMMISSION OF THE CITY OF SANIBEL** finds that Development Permit Application No. DP-2021-001803 and Major Subdivision Plat Application No. SPLT-2022-000074 to allow for a Unified Residential Housing (Cluster Housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision on property owned by Buckingham 225 Development, Inc. (Daniel W. Dodrill), and located at 5301-5326 Sanibel Captiva Road, and more fully identified as Tax Parcel No. 13-46-21-T2-00002.2000 and 13-46-21-T2-00002.4000, is approved.

Any approval of this Development Permit Application is pursuant to the application and attachments included with these items, and subject to the following condition(s) contained in the July 25, 2023, staff report:

1. A copy of the approved preliminary plat is attached to this resolution as Exhibit "A". Preliminary plat approval shall be effective and valid for a period of three years. The planning commission may, however, extend this effective period for an additional two years, provided that, at the time such extension is granted, the preliminary plat continues in compliance with all requirements of this Land Development Code and the Sanibel Plan. If all requirements for approval of a final subdivision plat, and the recording of such plat, are not completed within the time period for which preliminary approval is valid and effective, such preliminary approval and all rights conferred thereby shall be terminated and expire.
2. Preliminary plat approval may be extended by city council for an additional period of time beyond the three-year effective time period and the two-year extension that may be approved by the planning commission due to the necessity of achieving compliance with federal, state or local regulations pertaining to endangered or protected species and respective habitat or due to other unforeseen environmental conditions.
3. The applicant shall submit for final approval, a final subdivision plat in accordance with the requirements of *Land Development Code Section 114-89 -- Final plat review and approval.*
4. A copy of the approved Coastal Creek Site Development Plans is attached to this resolution as Exhibit "B".
5. All future land use and development shall comply with Exhibit "A" and "B", and all associated requirements of the Land Development Code including, but not limited to:
    a. Single-family residential and associated accessory uses
    b. Lot sizes
    c. Setbacks
    d. Limitations on vegetation removal and developed area
    e. Limitation on coverage with impermeable surfaces
    f. Minimum distance between buildings
    g. Environmental performance standards
6. The applicant shall execute, and record in the public records of Lee County, a declaration that the residential density allocation for the property has been fully utilized. If the development is to be phased and only a portion of the residential density allocated to the property is to be utilized, then the declaration shall reflect that portion so utilized. The declaration shall be prepared, executed and recorded in accordance with the formalities required under state law for the conveyance of real property, for which the developer shall be responsible. Completion permits shall not be issued for any dwelling units in the development and the subdivision shall not be final until such time as the developer shows compliance with this section.
7. The applicant shall establish a legal entity (a property owner's association) with responsibility for complying with the requirements of this development permit and maintaining the private road, drainage system, utilities, landscape buffers, and wetland preservation. Restrictive covenants for the subdivision are to include the following provisions:
    a. A provision that requires compliance with the conditions of development permit DP-2021-1803;
    b. A provision that prohibits any dwelling unit in the subdivision from use as resort housing;
    c. A provision requiring the Association to maintain the private street, stormwater management system, utilities, landscape buffers, and wetland preservation as conditions of approval for the preliminary plat and construction plans. The Association shall have the authority to make assessments and enforce liens to

cover the costs and assessments;

d. A provision giving the City of Sanibel the right to enforce the Associations obligations to maintain the private street, the stormwater management system, utilities, landscape buffers, and wetland preservation required as conditions of approval for the preliminary plat and construction plans;

e. A provision authorizing the City of Sanibel to make repairs and perform maintenance on required facilities, if not done by the Association, and giving the City the right to make assessments and enforce liens for costs of repairs and maintenance;

f. A provision providing a notice to lot purchasers that the street within the subdivision is not a public street, is to be maintained by the owners at their expense and is intended to remain a private street in perpetuity;

g. A provision that specifies as to each lot how many dwelling units are permitted thereon, including the amount of developed area and coverage assigned to each single-family lot;

h. A provision requiring the applicant to provide each property purchase/owner with information about the common open space and preservation areas, including Tracts B, C, D-1, and D-2; and

i. A provision in the amendment section of the documents prohibiting amendments to the preceding provisions without the written jointer or consent of the City of Sanibel.

8. Preliminary plat approval shall not relieve the applicant from the requirement of obtaining permits from and complying with lawful requirements imposed by the Florida Department of Environmental Protection, South Florida Water Management District, and any other applicable local, State and Federal law.
9. The applicant shall install all monuments as required by Chapter 177, Florida Statutes, and construct all streets, street signs, drainage facilities, sewage treatment facilities, and other improvements as are necessary to bring the proposed subdivision in full compliance with the following requirements of the Land Development Code:
    a. All streets and other improvements in proposed subdivisions shall be constructed in accordance with all specifications as provided in this chapter and as may be adopted by the city council by resolution as "Subdivision Improvement Construction Requirements;"
    b. All necessary street signs shall be installed by the applicant in accordance with the prevailing scheme of identifying public and private streets in the city; and
    c. All necessary drainage facilities shall be constructed as required and approved by the city manager so as to meet the minimum requirements of this Land Development Code and as to accomplish the intent and purpose of this Land Development Code.
10. The applicant shall obtain formal approval of the proposed subdivision and street names from the City in accordance with Ordinance No. 86-27 and City Council Resolution No. 86-67 prior to final plat approval.
11. The applicant may not begin construction of required improvement until construction plans are approved by the City Manager and a construction bond with good and sufficient surety, an irrevocable letter of credit, or equivalent security is provided to the City in an amount equal to the cost of all required improvements, and in a form approved by the City Attorney, conditioned upon satisfactory completion of required improvements in accordance with he approved construction plans during the effective period of the preliminary plat approval.
12. No facility installed underground may be covered over until the facility has been inspected by the City Manager. Other periodic inspections may be required. Construction of required improvements shall not be complete unless and until all the improvements have been finally inspected and approved by the City Manager.
13. Prior to the commencement of development activity, the applicant shall obtain a

vegetation permit to approve revisions of the vegetation plan.

14. A native vegetation buffer shall be installed along the north property line, pursuant to LDC Chapter 122, Article II, Division 3 – Residential Development Along Arterial and Collector Roads.
15. The proposed native plant buffer along the western boundary shall be permitted to mature to the natural height and growth pattern of the plants and maintained in perpetuity to prevent encroachment into the adjacent city-owned preserve.
16. Pursuant to Sec. 122-169(3) and Sec. 122-191, all City-listed and Florida Invasive Species Council (formerly FLEPPC) listed plant species shall be removed from the site and maintained free in perpetuity.
17. The applicant shall submit a copy of the SFWMD preserve management plan annual monitoring reports to the City.
18. The trimming of mangroves or other vegetation within Tract C and Tract D-2 is strictly prohibited, except to access utilities. The Coastal Creek subdivision does not abut the Heron's Landing Lake; property owners do not have riparian rights and are not entitled to a view of the waterbody.
19. All landscaping within the Coastal Creek subdivision shall be 100% native except the six platted lots which are required to be at least 75% native; the use of sod is prohibited.
20. The use of fertilizer containing nitrogen and phosphorus is prohibited within the Coastal Creek subdivision.
21. All new vegetation within stormwater retention areas, including lands between designated home sites, shall comply with Sec. 118-286 – Planting. A revised vegetation plan shall be submitted detailing the native plants installed to vegetate the common area tracts to ensure compliance with this condition.
22. All soil excavated from the site shall be disposed of properly at an off-island location.
23. The applicant shall comply with all provisions of Chapter 86 – Site Preparation, including but not limited to:
    a. Development activities shall be designed to minimize the amount of fill used in preparation of the site. Soil and other materials shall not be temporarily nor permanently stored in locations which would result in the unnecessary destruction of vegetation. Excess soil, or other material, including dredged spoil, to be disposed of off-site, shall be deposited at specified locations in a manner causing minimal environmental damage.
    b. Erosion and sediment control measures shall be coordinated with the sequence of grading, development, and construction operations; and shall be maintained for the duration of construction until final landscaping has been installed.
    c. Removal of vegetation shall be limited to the minimum necessary to carry out development activity, except as required by other provisions of the Land Development Code. The removal of vegetation, by any means other than the use of hand-held tools, shall not occur prior to issuance of a development permit.
    d. Permanent vegetation shall be installed on the construction site as soon as utilities are in place and final grades are completed. This permanent vegetation must be cared for and maintained in a healthy condition.
    e. All on-site facilities shall be properly maintained by the owner so that they do not become nuisances. Nuisance conditions shall include but not be limited to:
        1. Improper storage resulting in uncontrolled runoff and overflow;
        2. Stagnant water with concomitant algae growth, insect breeding and odors;
        3. Discarded debris;
        4. Unnecessary noise; and
        5. Safety hazards created by the facility's operations.
    f. The design, location and construction and the maintenance of all development shall be in a manner that minimizes environmental damage. The developer shall completely restore any environmentally sensitive area or wetland area damaged

during construction. Complete restoration means that the damaged area shall, within two years, be operating as effectively as the natural system did before being destroyed or altered. In designing the site for its ultimate end use, the site shall be graded in such a manner, and development and use shall take place in such a manner, so that there are no point discharges into coastal waters resulting from stormwater runoff and/or from wastewater effluent.

24. Planning Commission recommends that "Tract C", as shown and described by Exhibit "A", approved as conservation use for the protection of wetlands, is designated for inclusion within the Environmentally Sensitive Lands Conservation District and map upon City Council consideration of an amendment to the Sanibel Plan.

**EXPIRATION OF PLANNING COMMISSION ACTION;** In accordance with Land Development Code Section 82-424(f), when a development order is approved with conditions imposed thereon, such conditions shall be satisfied within the time limit specified in the development order issued by the Planning Commission. When such conditions specify requirements to be completed before a development permit is issued, and no particular time limit is specified for satisfaction of the conditions, such conditions must be satisfied within six months after issuance of the development order. Failure to satisfy a condition imposed upon the approval of a development permit, within the time limit specified therefor, or such extended time period as the Planning Commission may approve upon timely application of the permittee, shall cause the development order approving the development permit to be null and void and of no further force or effect.

**EFFECTIVE DATE OF PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-97, all actions of the Planning Commission, including those which constitute final decisions, shall be effective upon the date of filing of the adopted Resolution with the City Manager, or at a later date if provided in the Resolution. However, permits authorized by final decisions shall not be issued until one of the following has occurred: 1) The time for filing an appeal to City Council has elapsed; 2) The applicant and all other persons having appeal rights have filed a written waiver of appeal rights; 3) If an appeal has been timely filed, the City Council has finally disposed of the matter.

**RIGHT TO APPEAL PLANNING COMMISSION ACTION:** In accordance with Land Development Code Section 82-98. Appeals. The applicant is hereby advised that the following persons have the right to appeal a final decision of the Planning Commission adverse to their interests: 1) The applicant; 2) The owner of the property proposed for development; 3) The developer of the property proposed for development; and 4) Any other person residing upon, or owning property within the City, or owning or operating a business within the City, who participated by written comment before or at the Planning Commission hearing or who participated in person or through an authorized agent at the Planning Commission hearing. The appeal shall be filed within 15 days after the date that the Planning Commission decision was filed. The appeal shall be filed with the City manager, and the filing fee shall be paid as a prerequisite to filing.

**DISCLAIMER & PERMIT CONDITION (APPLICABLE ONLY IF FEDERAL OR STATE PERMITS ARE REQUIRED):** Issuance of a development permit by the City does not create any right to obtain a permit from a State or Federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a State or Federal agency or undertakes actions that result in a violation of State or Federal law. If applicable, all other State or Federal permits must be obtained before commencement of the project.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 25TH DAY OF JULY 2023.**

Attest:

~~Scott Lyon Kelly, City Clerk~~
Anna M. Hicks, Clerk

Roger Grogman, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: 7/25/23

Vote of Commission Members:

| | |
|---|---|
| Grogman | Aye |
| Pfeifer | Aye |
| DeBruce | Excused |
| Colter | Aye |
| Nichols | Aye |
| Welch | Excused |
| Symroski | Nay |

## EXHIBIT B OF RESOLUTION

**Agenda Item 17**
**Meeting of 10/3/23**

**CITY OF SANIBEL**
**RESOLUTION 23-049**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, UPHOLDING IN ALL RESPECTS THE PLANNING COMMISSION'S DECISION DETAILED IN SANIBEL PLANNING COMMISSION RESOLUTION 23-024 EXCEPT TO MODIFY CONDITION 22, REGARDING DEVELOPMENT PERMIT APPLICATION NO. DP-2021-001803 AND MAJOR SUBDIVISION APPLICATION NO. SPLT 2022-000074 DATED JULY 25, 2023, FOR THE PROJECT KNOWN AS COASTAL CREEK SUBDIVISION AND LOCATED AT 5301-5325 SANIBEL CAPTIVA ROAD; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, on July 25, 2023, the Sanibel Planning Commission conducted a quasi-judicial hearing for consideration of Development Permit Application No. DP-2021-001803 and Major Subdivision Application No. SPLT 2022-00007 (the "Applications"); and

**WHEREAS,** the Applications, filed by Brian Smith with Ensite, Inc. on behalf of owner Buckingham 225 Development, Inc. (the "Applicant"), seek approval to allow for a unified residential housing (cluster housing) development including six parcels for single-family residential use and associated improvements, known as "Coastal Creek" subdivision, located at 5301-5325 Sanibel Captiva Road, Sanibel; and

**WHEREAS**, Land Development Code Sections 82-421(8) and 82-422 detail the application and notice requirements for development permit consideration by the Planning Commission; and Land Development Code Section 114-106 provides the requirements and procedures for preliminary plats; and

**WHEREAS**, at the conclusion of its July 25, 2023 hearing, the Planning Commission, by a 4-1 vote, approved the Applications together with 24 conditions; and

**WHEREAS**, a Notice of Appeal of Planning Commission Resolution 23-024 was timely filed on August 8, 2023, by Ralph Brookes, Esq., on behalf of the Heron's Landing Homeowners Association of Sanibel, Inc. and six Sanibel residents (the "Appellants"), opposing the approval of the applications with the 24 conditions, as approved; and

**WHEREAS**, pursuant to Land Development Code Section 82-98(d), the City Council's consideration on appeal is limited to whether the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

**WHEREAS**, on appeal, the Appellants argue, among other things, that the Coastal Creek site should have certain additional testing and site remediation performed before the site is developed, as approved; and

**WHEREAS**, the City Council conducted a duly noticed hearing on appeal on September 11, 2023, for which the City Council reviewed and considered the record before the Planning Commission, Planning Commission Resolution 23-024, minutes of the Planning Commission, and the written and oral arguments presented by or on behalf of the Appellants, the Applicant, and Planning Staff; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The above "whereas" recitals are hereby found to be correct and are incorporated herein as part of this Resolution.

**SECTION 2.** The City Council makes the following findings:

(a) The Appellants have standing to appeal and timely filed their appeal to City Council; and

(b) All parties had notice and opportunity to be heard in the appeal; and

(c) No objections were raised to form or procedure of the appeal; and

(d) In approving the Applications, the Planning Commission properly interpreted and applied the provisions of the Land Development Code, based upon the Applications and evidence presented to the Planning Commission; and

(e) Condition 22 of Planning Commission Resolution 23-024 should be modified to clarify the definition of "excavated soil."

**SECTION 3.** Planning Commission Resolution 23-024 is hereby **UPHELD** in all respects, except Condition 22 is **MODIFIED** to read as follows:

> 22. All excavated soil from the site shall be disposed of properly at an off-island location. For this project, "excavated soil" shall include all soil dug up or scraped from predevelopment grade, other than *de minimus* removal of soil for the planting of vegetation or other, similar minor soil disturbances.

**SECTION 4.** This resolution shall take effect immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 3RD DAY OF OCTOBER 2023.**

Attest:

Scotty Lynn Kelly, CMC
Scotty Lynn Kelly, City Clerk

Richard Johnson
Richard Johnson, Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: October 3, 2023

Vote of Council Members:

| | |
|---|---|
| Johnson | Aye |
| Miller | Aye |
| Crater | Nay |
| Henshaw | Aye |
| Smith | Aye |

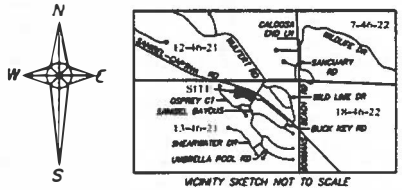
THIS INSTRUMENT PREPARED BY
HARRIS JORGENSEN, LLC
PHILLIP M. MCNULTY LS6915
CERTIFICATE OF AUTHORIZATION No. 6921
3046 DEL PRADO BLVD. S. SUITE 100
CAPE CORAL, FLORIDA 33904
(239) 257-2626

INSTRUMENT NUMBER:

SHEET 1 OF 2

# COASTAL CREEK

*A SUBDIVISION LYING IN*
*SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,*
*CITY OF SANIBEL, LEE COUNTY, FLORIDA*



VICINITY SKETCH NOT TO SCALE

## DEDICATION:

KNOW ALL MEN BY THESE PRESENTS THAT BLUEWATER ZOS DEVELOPMENT, INC. HAVE CAUSED THIS PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, TO BE MADE AND DOES HEREBY MAKE THE FOLLOWING DEDICATION:

A. TO THE COASTAL CREEK PROPERTY OWNERS ASSOCIATION, INC.:

1. TRACT "A" AS DEPICTED ON THE PLAT IS DEDICATED FOR PRIVATE ROADWAY ACCESS EASEMENT (A.E.), DRAINAGE (D.E.), AND UTILITY PURPOSES (P.U.E.) WITH MAINTENANCE RESPONSIBILITIES.

2. ALL DRAINAGE EASEMENTS (D.E.) AS DEPICTED ON THE PLAT, WITH MAINTENANCE RESPONSIBILITIES.

3. NON-EXCLUSIVE USE OF A SIX (6') FOOT PUBLIC UTILITY EASEMENT (P.U.E.) ADJACENT TO TRACT "A" AS SHOWN ON THE PLAT, FOR THE PURPOSE OF PLACEMENT OF UTILITIES AND MAINTENANCE THEREOF.

B. TRACT "B" AS DEPICTED ON THE PLAT IS DEDICATED FOR LANDSCAPE BUFFER WITH MAINTENANCE RESPONSIBILITIES.

C. TRACT "C" AS DEPICTED ON THE PLAT IS DEDICATED AS WETLAND WITH MAINTENANCE RESPONSIBILITIES.

D. TRACTS "D-1" AND "D-2" AS DEPICTED ON THE PLAT IS DEDICATED AS DRAINAGE AND OPEN SPACE WITH MAINTENANCE RESPONSIBILITIES.

E. TO PUBLIC AND PRIVATE UTILITY COMPANIES:
THE EASEMENTS DESCRIBED BELOW ARE HEREBY DEDICATED TO PUBLIC AND PRIVATE UTILITY COMPANIES, INCLUDING, BUT NOT LIMITED TO, LEE COUNTY ELECTRIC CO-OP, INTERNET, CABLE T.V., AND PHONE SERVICES, FOR THE PURPOSE OF CONSTRUCTION, INSTALLATION, MAINTENANCE AND OPERATION OF THEIR FACILITIES, INCLUDING, BUT NOT LIMITED TO PROVIDING CABLE TELEVISION SERVICES, TELEPHONE, GAS, ELECTRIC OR OTHER PUBLIC AND PRIVATE UTILITY SERVICES. PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF ANOTHER PUBLIC OR PRIVATE UTILITY. IN THE EVENT ANYONE DAMAGES THE FACILITIES OF A PUBLIC OR PRIVATE UTILITY, THE PARTY CAUSING THE DAMAGE WILL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

1. NON-EXCLUSIVE USE OF A SIX (6') FOOT PUBLIC UTILITY EASEMENT (P.U.E.) ADJACENT TO TRACT "A" AS SHOWN ON THE PLAT.

2. EASEMENTS CREATED BY THIS PLAT THAT ARE CO-LOCATED WITHIN PLATTED UTILITY EASEMENTS SHALL BE SUBORDINATE TO THE PUBLIC UTILITY EASEMENT.

IN WITNESS WHEREOF, _____ HAS EXECUTED AND CAUSED THIS DEDICATION TO BE MADE AND SIGNED THIS ____ DAY OF _____, 2026.

BY: _____

WITNESS
PRINT NAME _____

WITNESS
PRINT NAME _____

## ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF LEE

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY MEANS OF ___ PHYSICAL PRESENCE OR ___ ONLINE NOTARIZATION ON THIS ____ DAY OF _____, 2026, BY _____ AS _____ WHO IS PERSONALLY KNOWN TO ME OR HAS ____ AS IDENTIFICATION.

(AFFIX NOTARY SEAL)

NOTARY PUBLIC SIGNATURE ABOVE
NOTARY NAME: _____
EXPIRATION DATE: _____
COMMISSION EXP. DATE: _____

## SURVEYORS CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND COMPLIES WITH ALL OF THE SURVEY REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES. I FURTHER CERTIFY THAT THE REQUIRED REFERENCE MONUMENTS (P.R.M.'S) HAVE BEEN PLACED AT THE LOCATIONS SHOWN ON THE PLAT.

DONE THIS ____ DAY OF _____, 2026

_____
PHILLIP M. MCNULTY, PSM 6915
PROFESSIONAL LAND SURVEYOR AND MAPPER
HARRIS JORGENSEN, LLC
CERTIFICATE NUMBER LB 6921
3046 DEL PRADO BOULEVARD S. #100
CAPE CORAL, FLORIDA 33904

SURVEYOR SEAL

## DESCRIPTION:

A PARCEL OF LAND LYING IN GOVERNMENT LOT 1, SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID GOVERNMENT LOT 1; THENCE RUN S.89°23'59"E. ALONG THE NORTH LINE OF SAID SECTION FOR A DISTANCE OF 208.69 FEET; THENCE RUN S.39°09'07"W. FOR A DISTANCE 808.79 FEET TO AN INTERSECTION WITH THE CENTERLINE OF SANIBEL-CAPTIVA ROAD (66 FEET WIDE) BEING A POINT OF CUSP OF CURVATURE; THENCE RUN NORTHWESTERLY ALONG SAID CENTERLINE AND ALONG THE ARC OF A CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 1777.62 FEET (CHORD BEARING N.39°09'07"W.) FOR A DISTANCE OF 379.15 FEET TO A POINT OF TANGENCY; THENCE RUN N.17°04'30"W. FOR A DISTANCE OF 33.60 FEET TO AN INTERSECTION WITH THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF SAID SANIBEL-CAPTIVA ROAD, BEING A POINT OF CUSP OF CURVATURE AND THE POINT OF BEGINNING.
FROM SAID POINT OF BEGINNING RUN EASTERLY ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE AND ALONG THE ARC OF A CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 1838.12 FEET (CHORD BEARING S.85°58'48"E.) FOR A DISTANCE OF 304.13 FEET TO A POINT OF COMPOUND CURVATURE; THENCE RUN SOUTHEASTERLY AND SOUTHERLY ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 25.00 FEET (CHORD BEARING S.67°28'23"E.) FOR A DISTANCE OF 40.67 FEET TO A POINT OF TANGENCY; THENCE RUN S.31°03'00"E. FOR A DISTANCE OF 210.12 FEET; THENCE RUN S.58°57'00"W. FOR A DISTANCE OF 48.01 FEET; THENCE RUN NORTHEASTERLY ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS 25.00 FEET (CHORD BEARING N.24°44'47"E.) FOR A DISTANCE OF 8.43 FEET; THENCE RUN N.15°23'46"E. FOR A DISTANCE OF 300.55 FEET; THENCE RUN N.89°49'18"E. FOR A DISTANCE OF 30.57 FEET; THENCE RUN S.79°20'05"E. FOR A DISTANCE OF 338.83 FEET; THENCE RUN N.80°22'46"E. FOR A DISTANCE OF 77.71 FEET; THENCE RUN N.08°01'14"E. FOR A DISTANCE OF 204.68 FEET TO A POINT ON THE AFORESAID SOUTHEASTERLY RIGHT-OF-WAY LINE; THENCE RUN S.71°16'00"E. ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE FOR A DISTANCE OF 230.87 FEET TO THE POINT OF BEGINNING.

BEARINGS ARE BASED ON THE NORTH LINE OF THE AFORESAID SECTION 13 AS BEING S.89°23'59"E.

SAID TRACT CONTAINS 1,653,637 SQUARE FEET OR 37.957 ACRES, MORE OR LESS.

## APPROVALS:

THIS PLAT IS ACCEPTED AND APPROVED BY THE CITY OF SANIBEL, LEE COUNTY, FLORIDA THIS ____ DAY OF _____, 2026.

_____
DANA SOUZA
CITY OF SANIBEL MANAGER

_____
DOROTHY LYNN KELLY

_____
JOHN D. AGNEW
CITY ATTORNEY

ON BEHALF OF THE CITY OF SANIBEL, I HAVE REVIEWED THE ATTACHED PLAT OF COASTAL CREEK SUBDIVISION, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, CITY OF SANIBEL, LEE COUNTY, FLORIDA AND FIND THAT IT COMPLIES WITH ALL OF THE REQUIREMENTS OF CHAPTER 177, PART 1, FLORIDA STATUTES.

_____
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. _____
PRINTED NAME: _____

## NOTICE:

"LANDS DESCRIBED IN THIS PLAT MAY BE SUBDIVIDED BY THE DEVELOPER WITHOUT THE ROADS, DRAINAGE, WATER AND SEWER FACILITIES BEING ACCEPTED FOR MAINTENANCE BY LEE COUNTY. ANY PURCHASER OF A LOT IN THIS SUBDIVISION IS ADVISED TO DETERMINE WHETHER THE LOT MAY BE SUBJECT TO ASSESSMENT OR CALLED UPON TO BEAR A PORTION OR ALL OF THE EXPENSE OF CONSTRUCTION, MAINTENANCE, OR IMPROVEMENT OF ROADS, DRAINAGE, WATER, AND SEWER FACILITIES."

## NOTICE:

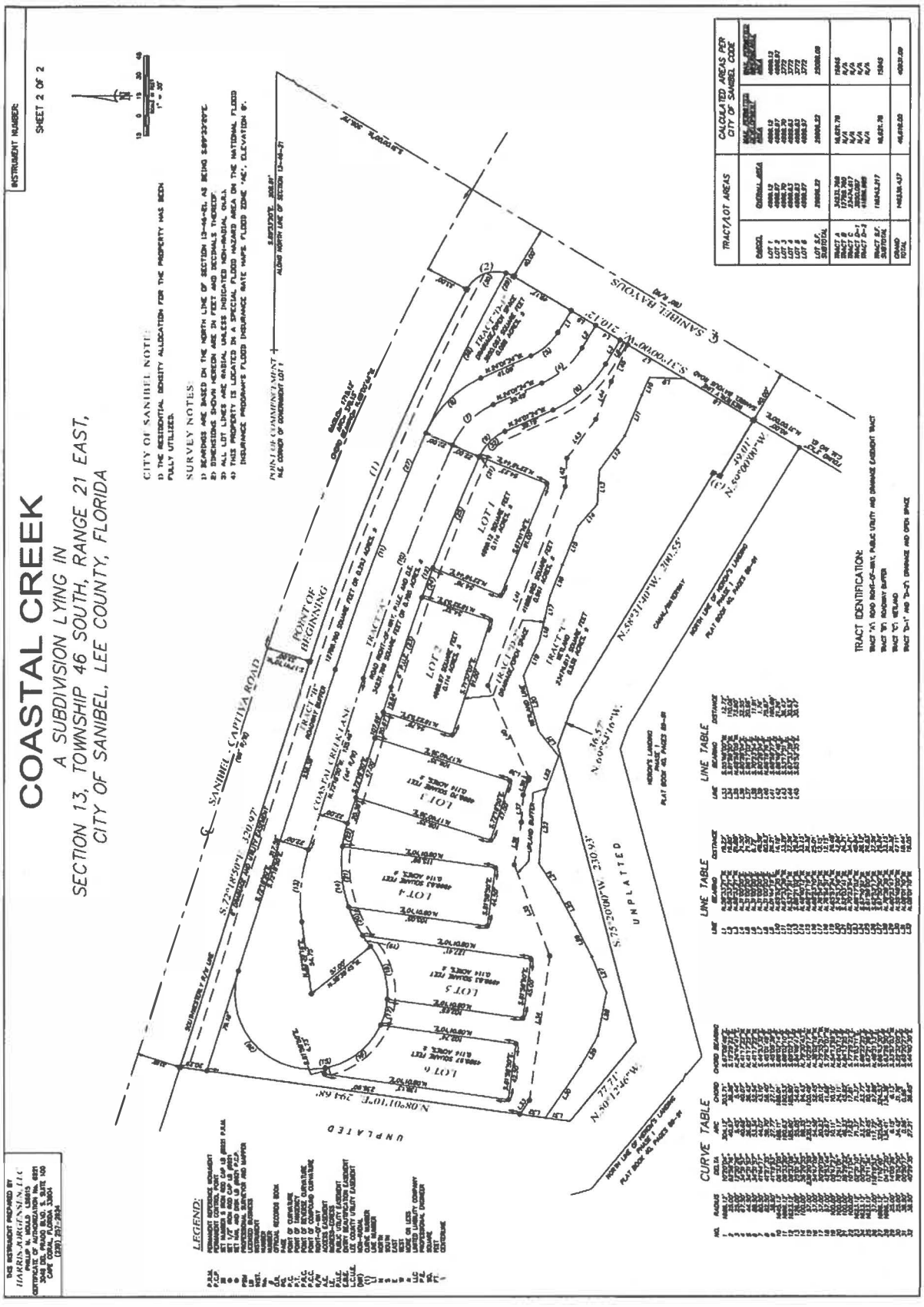
THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY AND/OR THE CITY OF SANIBEL.

## CLERK OF COURT CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED PLAT OF COASTAL CREEK, A SUBDIVISION LYING IN SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST, SANIBEL ISLAND, LEE COUNTY, FLORIDA, WAS FILED FOR RECORD AT _____M., THIS ____ DAY OF _____, 2026 AND DULY RECORDED AS INSTRUMENT NUMBER _____ IN THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

_____
KEVIN C. RAMSEY
LEE COUNTY CLERK OF COURT

CLERK SEAL


COASTAL CREEK
A SUBDIVISION LYING IN
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 21 EAST,
CITY OF SANIBEL, LEE COUNTY, FLORIDA
SHEET 2 OF 2
INSTRUMENT NUMBER:
CITY OF SANIBEL NOTE:
1) THE RESIDENTIAL DENSITY ALLOCATION FOR THE PROPERTY HAS BEEN FULLY UTILIZED.
SURVEY NOTES:
1) BEARINGS ARE BASED ON THE NORTH LINE OF SECTION 13-46-21, AS BEING S89°29'29"E.
2) DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
3) ALL LOT LINES ARE RADIAL UNLESS INDICATED NON-RADIAL (N.R.).
4) THIS PROPERTY IS LOCATED IN FLOOD ZONE AE (EL 10) AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM'S FLOOD INSURANCE RATE MAPS, FLOOD ZONE "AE", ELEVATION 9'.
POINT OF COMMENCEMENT
NE CORNER OF GOVERNMENT LOT 1
ALONG NORTH LINE OF SECTION 13-46-21
POINT OF BEGINNING
SANIBEL - CAPTIVA ROAD
S.72°01'50"E. 230.93'
SANIBEL BAYOUS
S.31°00'00"W. 210.12'
N.58°31'40"W. 210.55'
N.58°00'00"W. 210.01'
N.60°52'16"W. 36.57'
S.75°20'00"W. 230.93'
N.40°12'46"W. 37.71'
N.08°10'10"E. 294.88'
UNPLATTED
COASTAL CRUISIAN
TRACT "B"
TRACT "C"
TRACT "D"
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
HERON'S LANDING
PLAT BOOK 45, PAGES 89-91
TRACT/LOT AREAS
CALCULATED AREAS PER CITY OF SANIBEL CODE
TRACT IDENTIFICATION:
TRACT "A": ROAD RIGHT-OF-WAY, PUBLIC UTILITY AND DRAINAGE EASEMENT TRACT
TRACT "B": ROADWAY BUFFER
TRACT "C": WETLAND
TRACT "D-1" AND "D-2": DRAINAGE AND OPEN SPACE
LEGEND:
CURVE TABLE
LINE TABLE
THIS INSTRUMENT PREPARED BY:
HARRIS SURVEYING, LLC
CERTIFICATE OF AUTHORIZATION No. 6921
3048 DEL PRADO BLVD. S., SUITE 100
CAPE CORAL, FLORIDA 33904
(239) 257-2624

# Planning Commission

## March 24, 2026

- **PLANNING COMMISSION AGENDA ITEM : 7E**
- **APPLICATION NUMBER:** SPLT-2022-00074
- **PROPERTY ADDRESS:** 5325 & 5301 SANIBEL CAPTIVA RD

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**APPLICANT**

BRIAN SMITH, ENSITE INC.

# Consideration of a revision to an approved preliminary plat to amend allocated impermeable coverage for lots 1 through 6 at a Unified Residential Housing (Cluster Housing) development known as “Coastal Creek” subdivision

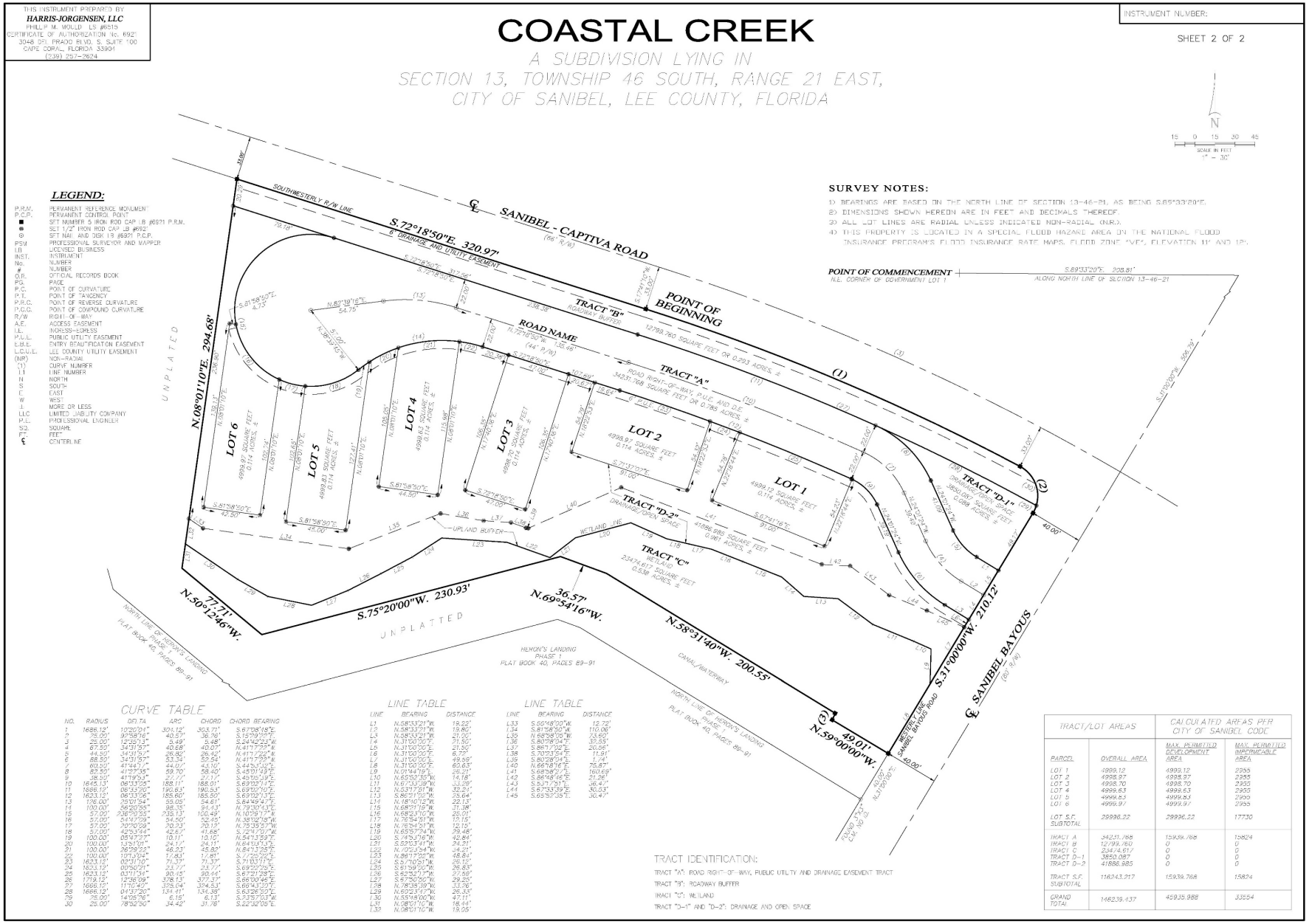
Pursuant to Land Development Code (LDC) Section 82-421 and 114-87, the subject application has been referred to the Planning Commission to address the following issues:

1. Does the proposed revision to the previously approved preliminary plat maintain compliance with the requirements of a Unified Residential Housing (Cluster Housing), development consistent with the Sanibel Plan and with LDC Chapter 86, Article III, Division 3, Subdivisions I and II?
2. Does the proposed revision to the previously approved preliminary plat provide all required information cited by LDC Sec. 114-106 – Preliminary plat?
3. Does the proposed revision to the previously approved preliminary plat maintain compliance with the approvals granted by Planning Commission Resolution 23-024 and upheld by City Council Resolution 23-049?

# Aerial image – January 2025



# Preliminary Plat – As Approved

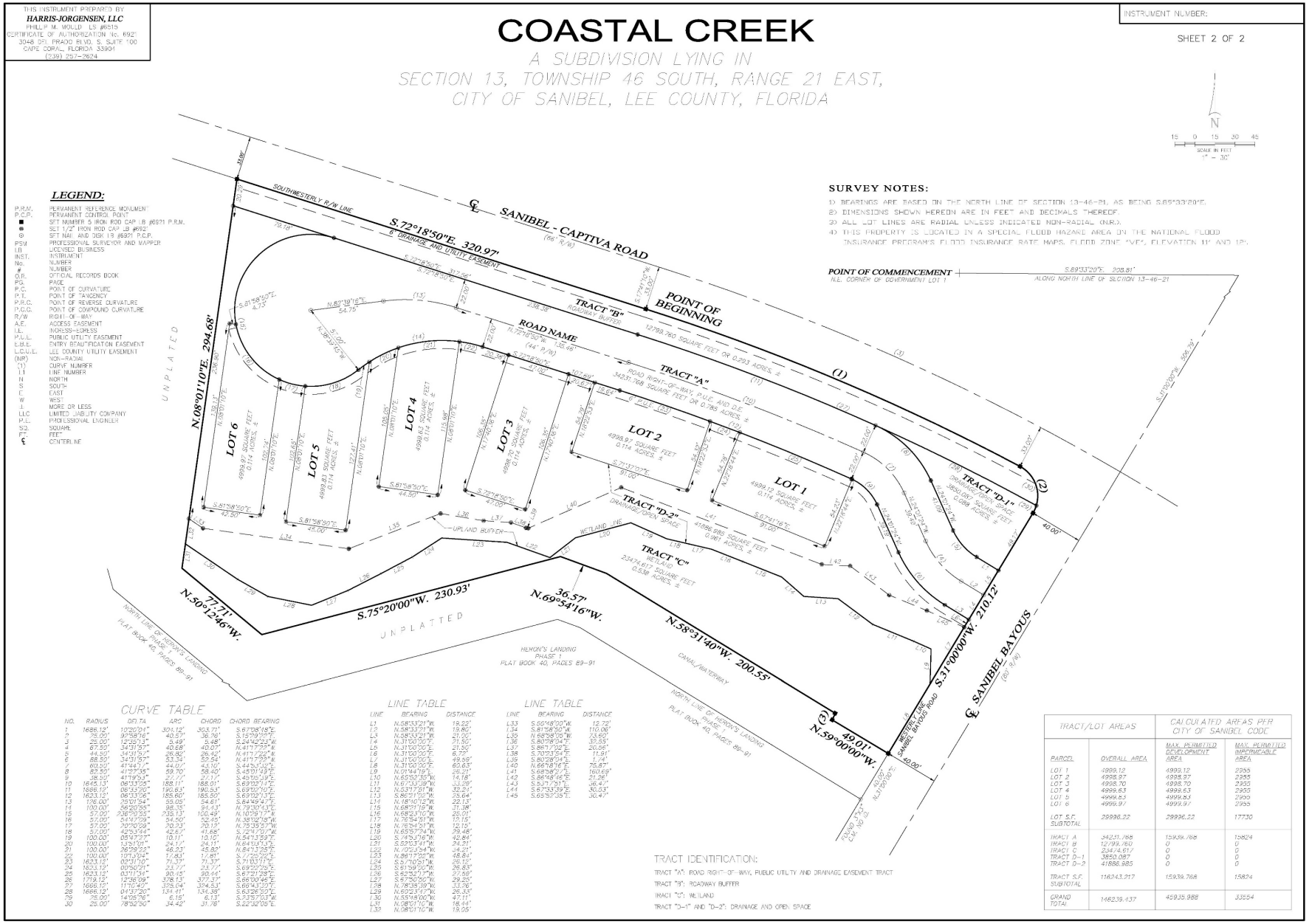



Application Number: SPLT-2022-00074

# Preliminary Plat – As Approved

| TRACT/LOT AREAS | | CALCULATED AREAS PER CITY OF SANIBEL CODE | |
|---|---|---|---|
| PARCEL | OVERALL AREA | MAX. PERMITTED DEVELOPMENT AREA | MAX. PERMITTED IMPERMEABLE AREA |
| LOT 1 | 4999.12 | 4999.12 | 2955 |
| LOT 2 | 4998.97 | 4998.97 | 2955 |
| LOT 3 | 4998.70 | 4998.70 | 2955 |
| LOT 4 | 4999.63 | 4999.63 | 2955 |
| LOT 5 | 4999.83 | 4999.83 | 2955 |
| LOT 6 | 4999.97 | 4999.97 | 2955 |
| LOT S.F. SUBTOTAL | 29996.22 | 29996.22 | 17730 |
| TRACT A | 34231.768 | 15939.768 | 15824 |
| TRACT B | 12799.760 | 0 | 0 |
| TRACT C | 23474.617 | 0 | 0 |
| TRACT D-1 | 3850.087 | 0 | 0 |
| TRACT D-2 | 41886.985 | 0 | 0 |
| TRACT S.F. SUBTOTAL | 116243.217 | 15939.768 | 15824 |
| GRAND TOTAL | 146239.437 | 45935.988 | 33554 |

# Preliminary Plat – As Amended



# Preliminary Plat – As Amended

| TRACT/LOT AREAS | | CALCULATED AREAS PER CITY OF SANIBEL CODE | |
|---|---|---|---|
| PARCEL | OVERALL AREA | MAX. PERMITTED DEVELOPMENT AREA | MAX. PERMITTED IMPERMEABLE AREA |
| LOT 1 | 4999.12 | 4999.12 | 4999.12 |
| LOT 2 | 4998.97 | 4998.97 | 4998.97 |
| LOT 3 | 4998.70 | 4998.70 | 3772 |
| LOT 4 | 4999.63 | 4999.63 | 3772 |
| LOT 5 | 4999.83 | 4999.83 | 3772 |
| LOT 6 | 4999.97 | 4999.97 | 3772 |
| LOT S.F. SUBTOTAL | 29996.22 | 29996.22 | 25086.09 |
| TRACT A | 34231.768 | 16,621.78 | 15845 |
| TRACT B | 12799.760 | N/A | N/A |
| TRACT C | 23474.617 | N/A | N/A |
| TRACT D–1 | 3850.087 | N/A | N/A |
| TRACT D–2 | 41886.985 | N/A | N/A |
| TRACT S.F. SUBTOTAL | 116243.217 | 16,621.78 | 15845 |
| GRAND TOTAL | 146239.437 | 46,618.00 | 40931.09 |

Staff findings:

- The revision to the table maintains compliance with the maximum developed area and coverage with impermeable surfaces per ecological zone.
- No changes are proposed to the approved subdivision layout, lot configuration, tract boundaries, tract sizes, or overall site design; the revision is limited solely to correcting the tabulated development and impermeable area allocations.
- Staff finds the proposed revision is within the limitations established by the land development code and has no objection to the revised table.
- All 24 conditions of the preliminary plat approval found in Planning Commission Resolution 23-024 and upheld by City Council Resolution 23-049 remain in full force and effect.

# City of Sanibel

City Council

## Natural Resources Department
## Agenda Memorandum

**City Council Meeting Date: 4/21/2026**

**To:** City Council

**From:** Dana Dettmar, Environmental Biologist

**Date:** April 1, 2026

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**TITLE: AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**REVIEW TIMELINE**

| Date | Meeting Type | Summary |
|---|---|---|
| 02/24/2026 | LDC Subcommittee | Feedback provided to staff on recommended revisions. Staff directed to draft code language to be reviewed by Planning Commission. |
| 03/24/2026 | Planning Commission | Minor revisions to the language. Planning Commission unanimously approved the revisions through PC Resolution 26-09 with the recommendation for City Council to adopt the amendments in the form of an ordinance. |
| 04/21/2026 | City Council | Discussion and first reading to occur at current meeting. |

**PROPOSAL SUMMARY**

Consideration of revisions to the vegetation buffer standards contained in Chapter 122, Article II, Division 2 related to commercial and institutional uses.

Recommended revisions include decreases in tree quantities and changes to plant types/quantities dependent on the adjacent use as well as the addition of language to address existing mature trees within buffer areas,

compliance following a natural disaster, phased installation of required buffers, and presence of powerlines, public utility easements, and stormwater areas that fall within required buffer areas. Staff to provide a presentation that details the proposed amendments.

**PUBLIC COMMENT:** Staff have not received public comment on this item.

**FUNDING SOURCE:** N/A

**RECOMMENDATION:** Discussion of draft Ordinance 26-006

**CITY OF SANIBEL**
**ORDINANCE 26-006**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Natural Resources Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of 7 to 0 that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 122, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 122 - VEGETATION**

. . .

**ARTICLE II. – LANDSCAPING**

. . .

**DIVISION 2. - COMMERCIAL AND INSTITUTIONAL USES**

. . .

**Sec.122-49. – Types, varieties, and numbers of plants required.**

~~Each v~~Vegetation buffers required by this division shall be installed with plants meeting the following requirements:

(a~~1~~) Front / right-of-way buffers.~~Each required vegetation buffer shall include at least one large or medium tree for each 75 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of six different species of native plants included.~~

(1) Each required vegetation buffer shall include at least one large or medium tree for each 200 square feet of the required buffer area with a minimum of six different species of native plants included.

(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(b) Side and rear buffers shall comply with section 122-49(a), except as follows:

(1) Side and rear buffers adjacent to a commercial or institutional use.

a. Each required vegetation buffer shall include at least one large or medium tree for each 300 square feet of the required buffer area with a minimum of six different species of native plants included.

b. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area with a minimum of five different species of native plants included.

c. Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(2) Side and rear buffer adjacent to conservation lands shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(c) The square footage for existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways within a required vegetation buffer shall be excluded from calculations for required plant quantities.

~~(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, (at least 25 percent of which must be small trees), with a minimum of five different~~

~~species of native plants included.~~

~~(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.~~

(d~~4~~) A minimum of 75 percent of the plants required by each of the subsections (1) through (3) of this section shall be native plants. The remainder may be either native plants or noncompeting exotic species of plant. Invasive exotic vegetation shall not be permitted within the required buffers. The category for native plants (as large or medium trees, small trees or medium shrubs, or low growing (small) shrubs or groundcover plants) is specified on the city's horticulturally available native plants list maintained by the city's natural resources department. The applicable category for noncompeting exotic species of plant shall be as determined by the city manager, or the manager's designee, categorized by size in a manner consistent with the horticulturally available native plant list maintained by the city's natural resources department. Existing, preserved plants shall be counted toward meeting the requirements of this division.

(e) A credit for large or medium tree quantity requirements shall be applied to vegetation buffers with existing mature canopy trees in the large or medium tree category that are retained. The following scale shall be applied to determine tree credits using the diameter at breast height (DBH) measurement of the existing mature canopy tree for which credit is sought:

(1) DBH 6”-10” is equivalent to two medium or large trees;

(2) DBH 10.1”-20” is equivalent to three medium or large trees;

(3) DBH 20” or greater is equivalent to four medium or large trees.

(f) If the vegetation buffer depth cannot be increased to accommodate drainage easements and facilities, overhead powerlines, public utility easements containing underground utilities, and other natural or manmade features that exist within a required vegetation buffer pursuant to section 122-48(d), the following standards shall apply:

(1) For any portion of a required vegetation buffer that contains overhead powerlines, small trees shall be substituted for the required quantity of large or medium trees.

(2) For any portion of a required vegetation buffer that overlaps with public utility easements, plant quantity calculations for large or medium trees and small trees or medium shrubs shall be omitted. Only groundcovers will be required in the portions of the buffer in which public utility easements exist.

(3) When a majority of a required buffer area (greater than 50% of the square footage) overlaps with drainage easements or facilities, the species diversity requirement shall be reduced to a minimum of three species for large or medium trees and a minimum of three species for small trees or medium shrubs. Low growing (small) shrub or groundcover species diversity shall remail the same.

(g~~5~~) An administrative waiver to subsections (a~~1~~), and (b~~2~~), ~~and (3),~~ to incentivize use of

native plant species in landscaping, may be authorized, if the following conditions are met:

(1)~~a.~~ All vegetation within a required vegetation buffer is 100 percent native plant species.

(2)~~b.~~ Eighty-five percent of the total number of plants required by subsections (a~~1~~)~~,~~ and (b~~2~~), ~~and (3)~~ are installed pursuant to section 122-50.

**Sec. 122-50. - Installation standards.**

All vegetation installed to meet the requirements of this division shall be planted in conformance with the following standards:

(a~~1~~) The placement of plants comprising the vegetation buffer need not be uniform, but the required plants within each category shall be thoroughly distributed throughout the buffer area.

(b~~2~~) The quality of plants used in the vegetation buffers shall conform to the standards of Florida No. 1 or better, as provided in Grades and Standards for Nursery Plants, 2nd edition, February 1998 PI #97T-05, published by the Division of Plant Industry, State Department of Agriculture and Consumer Services, as it may be revised from time to time.

(c~~3~~) Large and medium trees installed in a vegetation buffer, and existing, preserved large and medium trees used to meet the requirements of this division, must be a minimum of eight feet in height for medium trees and 12 feet in height for large trees. Nursery stock large and medium trees shall be in ten gallon or larger containers at the time of installation. Small trees must be a minimum height of six feet and shrubs a minimum height of 18 inches. Nursery stock small trees and shrubs shall be in seven gallon or larger containers for small trees and in three-gallon or larger containers for shrubs at the time of installation. Nursery stock low growing (small) shrubs and groundcover plants shall be in one gallon or larger containers at the time of installation.

~~(4) Any part of a required vegetation buffer which lies directly between (line of sight) any commercial building or parking or loading area and any dwelling unit shall be sufficiently dense, between two feet and six feet above ground level, as to screen light and sound passage to the extent reasonably practical. As a minimum, all required small trees and shrubs in such portions of a buffer must be at least six feet in height at the time a completion certificate or certificate of occupancy is issued.~~

(d~~5~~) All vegetation buffers shall be installed in a sound and professional manner according to good planting procedures and in accordance with any applicable requirement of this Land Development Code or other ordinance of the city.

(e~~6~~) All required vegetation buffers shall be protected from vehicular encroachment from adjacent streets, driveways, parking areas, and loading areas.

(f) A property owner may provide a request in writing for phased installation of required vegetation buffers. The property owner must sign a Stipulation of Phased Vegetation Buffer Installation Agreement and incorporate an approved vegetation buffer plan to ensure the property owner will fully comply with the requirements of this division. Under phased installation, front buffers shall be installed first and must be completed within 12 months of permit approval. Twelve months shall be provided for each additional buffer (i.e. side and rear buffers), up to 48 months for vegetation buffer compliance along all property lines.

(g~~7~~) A completion certificate or certificate of occupancy shall not be issued unless required vegetation buffers meet all the requirements of this division or the property owner has obtained a Stipulation of Phased Vegetation Buffer Installation Agreement.

**Sec. 122-51. - Maintenance standards.**

(a) All plants used to meet the requirements for vegetation buffers provided in this division shall be permitted to mature to the natural height and growth pattern of the plants; and all plants shall be permitted to produce their natural fruit and provide cover for wildlife by emulating their natural growth patterns. All plants required for conformance with this division shall be inspected by the city manager, or the manager's designee, six months after installation, and periodically thereafter, to ensure that they are maintained and are surviving in a healthy condition and are being maintained in accordance with the requirements and standards of this division and applicable provisions of this Code or permit. Any plants appearing unable to sustain healthy future growth or are missing from the vegetation buffer shall be replaced by ones that conform to the requirements of this division. Replacement vegetation must be installed within 30 days after notification of such requirement by the city manager, or the manager's designee. Maintenance trimming to keep vegetation from encroaching upon bordering driveways, walkways, parking areas, roads and shared use paths is permitted.

(b) Required vegetation buffers destroyed or damaged by accidental fire or other natural and disastrous force must be brought into compliance within two years of the date of destruction or damage. If the declared state of local emergency extends beyond six months, all required vegetation buffers must be reestablished within three years. If the declared state of local emergency extends beyond one year, all required buffers must be reestablished within four years. If another state of local emergency is declared during an existing reestablishment period, the more recent state of local emergency will reset the reestablishment period for buffer compliance. To the extent practicable, the first buffer to be reestablished shall be the front buffer followed by side and rear buffers.

(c) ~~(b)~~ Failure to maintain vegetation buffers required by this division may be grounds for revocation of a development permit, or any other permit or approval issued pursuant to this Land Development Code, as provided in sections 82-33 and 82-34, or any other enforcement proceeding provided in chapter 82, article VII.

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, ON THE 5TH DAY OF**

**MAY 2026.**

Attest:

_____ _____
Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

_____
John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| DeBruce | _____ | |
| Henshaw | _____ | First Reading: _____ |
| Johnson | _____ | Publication Date: _____ |
| Miller | _____ | Second Reading: _____ |
| Smith | _____ | |

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-09**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RECOMMENDING THAT CITY COUNCIL ADOPT AN ORDINANCE AMENDING THE CODE OF ORDINANCES, SUBPART B LAND DEVELOPMENT CODE, CHAPTER 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS.**

**WHEREAS,** the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, at which the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS,** the Planning Commission finds the proposed amendment to be consistent with the Sanibel Plan, as it relates to Objective B9 of Section 3.6.2. Future Land Use Element, for continued implementation of innovative land development regulations to achieve objectives of the Plan, and with the Plan for scenic preservation, which requires vegetation buffer to enhance compatibility of buildings with the community as a whole; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code, in accordance with the standards set forth in Land Development Code Section 82-241.

**NOW, THEREFORE, BE IT RESOLVED,** the Planning Commission finds the proposed amendments to the Land Development Code attached hereto as Exhibit A, are consistent with the Sanibel Plan, meet the above-referenced requirements, and recommends that the City Council adopt said amendments in the form of an ordinance.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Aye |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

**EXHIBIT A OF RESOLUTION**

**Agenda Item**
**Meeting of**

**CITY OF SANIBEL**
**ORDINANCE 25-**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of _ to _ that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 122, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 122 - VEGETATION**

* * *

**ARTICLE II. – LANDSCAPING**

* * *

**DIVISION 2. - COMMERCIAL AND INSTITUTIONAL USES**

. . .

**Sec.122-49. – Types, varieties, and numbers of plants required.**

~~Each v~~Vegetation buffer required by this division shall be installed with plants meeting the following requirements:

(a~~1~~) Front / right-of-way buffers. ~~Each required vegetation buffer shall include at least one large or medium tree for each 75 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of six different species of native plants included.~~

(1) Each required vegetation buffer shall include at least one large or medium tree for each 200 square feet of the required buffer area with a minimum of six different species of native plants included.

(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(b) Side and/or rear buffers shall comply with section 122-49(a), except as follows:

(1) Side and/or rear buffers adjacent to a commercial or institutional use.

a. Each required vegetation buffer shall include at least one large or medium tree for each 300 square feet of the required buffer area with a minimum of six different species of native plants included.

b. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area with a minimum of five different species of native plants included.

c. Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(2) Side and/or rear buffer adjacent to conservation lands.

a. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(c) The square footage for existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways within a required vegetation buffer shall be excluded from calculations for required plant quantities.

~~(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, (at least 25 percent of which must be small trees), with a minimum of five different species of native plants included.~~

~~(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.~~

(d~~4~~) A minimum of 75 percent of the plants required by each of the subsections (1) through (3) of this section shall be native plants. The remainder may be either native plants or noncompeting exotic species of plant. Invasive exotic vegetation shall not be permitted within the required buffers. The category for native plants (as large or medium trees, small trees or medium shrubs, or low growing (small) shrubs or groundcover plants) is specified on the city's horticulturally available native plants list maintained by the city's natural resources department. The applicable category for noncompeting exotic species of plant shall be as determined by the city manager, or the manager's designee, categorized by size in a manner consistent with the horticulturally available native plant list maintained by the city's natural resources department. Existing, preserved plants shall be counted toward meeting the requirements of this division.

(e) A credit for large or medium tree quantity requirements shall be applied to vegetation buffers with existing mature canopy trees in the large or medium tree category that are retained. The following scale shall be applied to determine tree credits using the diameter at breast height (DBH) measurement of the existing mature canopy tree for which credit is sought:

(1) DBH 6"-10" is equivalent to two medium or large trees;

(2) DBH 10.1"-20" is equivalent to three medium or large trees;

(3) DBH 20" or greater is equivalent to four medium or large trees.

(f) If the vegetation buffer depth cannot be increased to accommodate drainage easements and facilities, overhead powerlines, public utility easements containing underground utilities, and other natural or manmade features that exist within a required vegetation buffer pursuant to section 122-48(d), the following standards shall apply:

(1) For any portion of a required vegetation buffer that contains overhead powerlines, small trees shall be substituted for the required quantity of large or medium trees.

(2) For any portion of a required vegetation buffer that overlaps with public utility easements, plant quantity calculations for large or medium trees and small trees or medium shrubs shall be omitted. Only groundcovers will be required in the portions of the buffer in which public utility easements exist.

(3) When a majority of a required buffer area (greater than 50% of the square footage) overlaps with drainage easements or facilities, the species diversity requirement shall be reduced to a minimum of three species for large or

medium trees and a minimum of three species for small trees or medium shrubs. Low growing (small) shrub or groundcover species diversity shall remail the same.

(g~~5~~) An administrative waiver to subsections (a~~1~~), and (b~~2~~), ~~and (3),~~ to incentivize use of native plant species in landscaping, may be authorized, if the following conditions are met:

(1)~~a.~~ All vegetation within a required vegetation buffer is 100 percent native plant species.

(2)~~b.~~ Eighty-five percent of the total number of plants required by subsections (a~~1~~), and (b~~2~~), ~~and (3)~~ are installed pursuant to section 122-50.

**Sec. 122-50. - Installation standards.**

All vegetation installed to meet the requirements of this division shall be planted in conformance with the following standards:

(a~~1~~) The placement of plants comprising the vegetation buffer need not be uniform, but the required plants within each category shall be thoroughly distributed throughout the buffer area.

(b~~2~~) The quality of plants used in the vegetation buffers shall conform to the standards of Florida No. 1 or better, as provided in Grades and Standards for Nursery Plants, 2nd edition, February 1998 PI #97T-05, published by the Division of Plant Industry, State Department of Agriculture and Consumer Services, as it may be revised from time to time.

(c~~3~~) Large and medium trees installed in a vegetation buffer, and existing, preserved large and medium trees used to meet the requirements of this division, must be a minimum of eight feet in height for medium trees and 12 feet in height for large trees. Nursery stock large and medium trees shall be in ten gallon or larger containers at the time of installation. Small trees must be a minimum height of six feet and shrubs a minimum height of 18 inches. Nursery stock small trees and shrubs shall be in seven gallon or larger containers for small trees and in three-gallon or larger containers for shrubs at the time of installation. Nursery stock low growing (small) shrubs and groundcover plants shall be in one gallon or larger containers at the time of installation.

~~(4) Any part of a required vegetation buffer which lies directly between (line of sight) any commercial building or parking or loading area and any dwelling unit shall be sufficiently dense, between two feet and six feet above ground level, as to screen light and sound passage to the extent reasonably practical. As a minimum, all required small trees and shrubs in such portions of a buffer must be at least six feet in height at the time a completion certificate or certificate of occupancy is issued.~~

(d~~5~~) All vegetation buffers shall be installed in a sound and professional manner according to good planting procedures and in accordance with any applicable requirement of this Land Development Code or other ordinance of the city.

(e~~6~~) All required vegetation buffers shall be protected from vehicular encroachment from adjacent streets, driveways, parking areas, and loading areas.

(f) A property owner may provide a request in writing for phased installation of required vegetation buffers. The property owner must sign a Stipulation of Phased Vegetation Buffer Installation Agreement and incorporate an approved vegetation buffer plan to ensure the property owner will fully comply with the requirements of this division. Under phased installation, front buffers shall be installed first and must be completed within 12 months of permit approval. Twelve months shall be provided for each

additional buffer (i.e. side and rear buffers), up to 48 months for vegetation buffer compliance along all property lines.

(g~~f~~) A completion certificate or certificate of occupancy shall not be issued unless required vegetation buffers meet all the requirements of this division or the property owner has obtained a Stipulation of Phased Vegetation Buffer Installation Agreement.

**Sec. 122-51. - Maintenance standards.**

(a) All plants used to meet the requirements for vegetation buffers provided in this division shall be permitted to mature to the natural height and growth pattern of the plants; and all plants shall be permitted to produce their natural fruit and provide cover for wildlife by emulating their natural growth patterns. All plants required for conformance with this division shall be inspected by the city manager, or the manager's designee, six months after installation, and periodically thereafter, to ensure that they are maintained and are surviving in a healthy condition and are being maintained in accordance with the requirements and standards of this division and applicable provisions of this Code or permit. Any plants appearing unable to sustain healthy future growth or are missing from the vegetation buffer shall be replaced by ones that conform to the requirements of this division. Replacement vegetation must be installed within 30 days after notification of such requirement by the city manager, or the manager's designee. Maintenance trimming to keep vegetation from encroaching upon bordering driveways, walkways, parking areas, roads and shared use paths is permitted.

(b) Required vegetation buffers destroyed or damaged by accidental fire or other natural and disastrous force must be brought into compliance within two years of the date of destruction or damage. If the declared state of local emergency extends beyond six months, all required vegetation buffers must be reestablished within three years. If the declared state of local emergency extends beyond one year, all required buffers must be reestablished within four years. If another state of local emergency is declared during an existing reestablishment period, the more recent state of local emergency will reset the reestablishment period for buffer compliance. To the extent practicable, the first buffer to be reestablished shall be the front buffer followed by side and rear buffers.

(c) Failure to maintain vegetation buffers required by this division may be grounds for revocation of a development permit, or any other permit or approval issued pursuant to this Land Development Code, as provided in sections 82-33 and 82-34, or any other enforcement proceeding provided in chapter 82, article VII.

* * *

# City Council Meeting

**April 21, 2026**

- CITY COUNCIL AGENDA ITEM : XX
- DISCUSSION OF REVISIONS TO CHAPTER 122, ARTICLE II, DIVISION 2, COMMERCIAL AND INSTITUTIONAL VEGETATION BUFFERS

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DANA DETTMAR, NATURAL RESOURCES

City staff have been working on a number of vegetation buffer projects for commercial/institutional properties post-hurricane and surge events. Several challenges have been identified when trying to achieve buffer compliance:

1. Lawfully existing non-conforming properties
2. Buffers with existing mature trees
3. Overhead powerlines, public utility easements, and stormwater within buffer areas
4. Cost of plants has increased significantly since Hurricane Ian

Since Hurricane Ian there been several changes to code language regarding vegetation buffers to assist property owners/businesses with recovery:

Ordinance 24-003

- Created native plant incentive to allow reduction in required plant quantities by 15% when utilizing all native plants.
- Excluded square footage ingress-egress driveways and inter/intra connectivity paths from plant quantity calculations.
- Allowed buffer depths to be increased administratively to accommodate utilities rather. Previously, required Planning Commission approval.

Ordinance 24-018 & 25-022

- Allows waivers to buffer standards to be approved administratively until December 31, 2026. Previously, required Planning Commission approval.

Consideration of potential or recommended revisions to the vegetation buffer standards contained in Chapter 122 related to commercial and institutional uses. To include the following topics:

1. Plant quantities in front buffer
2. Land use adjacent to side & rear buffers for commercial/institutional properties
3. Buffers with existing mature trees
4. Powerlines and public utility easements within required buffer areas
5. Stormwater areas within required buffer areas
6. Phased installation of buffers
7. Compliance following natural disaster
8. Other?

Working group for the buffer revisions consisted of Natural Resources and Planning staff, Sanibel-Captiva Conservation Foundation, & Coastal Vista Design.

# 1. Plant quantities in front buffer

Issue: Can we achieve the purpose of the front buffer with fewer plants?

Vegetation buffers are required *"… as a means of providing a barrier to both light and sound created by such uses and for the purpose of maintaining a rural, natural environment and wildlife corridor along city streets."* (Sec. 122-47).

Current Requirements (Section 122-49): Types, varieties, and numbers of plants required.

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | 1 per 75 sq ft | 6 native species | 27 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 1. Plant quantities in front buffer

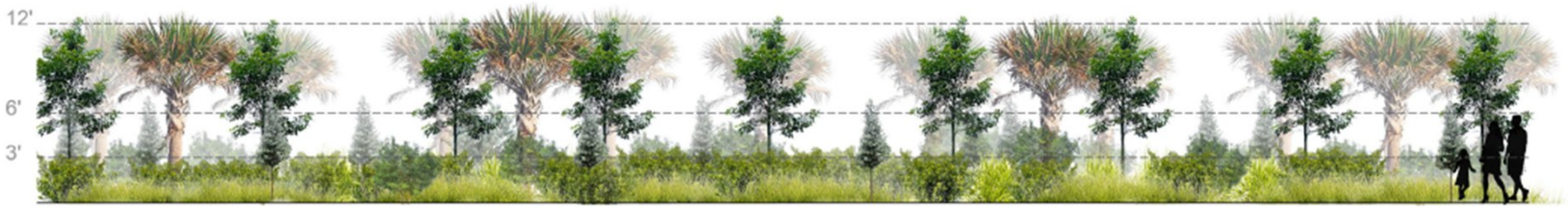
Recommended Revision: Reduce the large and medium tree requirement to 1 tree per 200 sq ft

*Section 122-49(a)1-3*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | ~~1 per 75 sq ft~~<br>1 per 200 sq ft | 6 native species | ~~27~~<br>10 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

Benefits/Rationale:

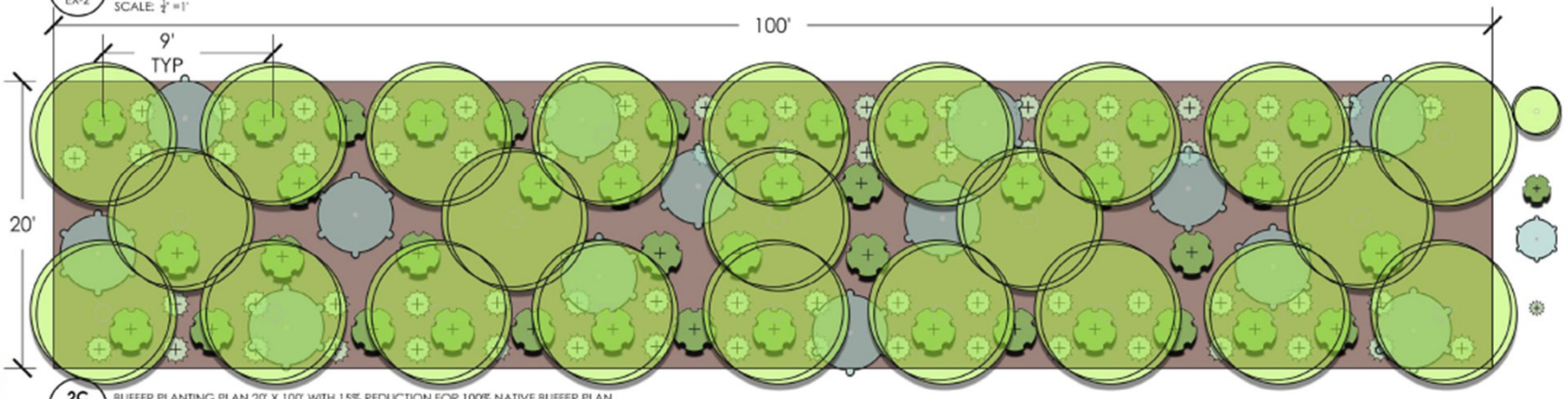
- Increase in sunlight availability to the lower canopy, increases options for plant palette
- Allows more space for tree growth, better growth form to increase resilience
- Lowers cost for property owners




2A EX-2 BUFFER PLANTING ELEVATION 20' X 100' WITH 15% REDUCTION FOR 100% NATIVE BUFFER SECTION AT TIME OF PLANTING
SCALE: 1/4" =1'




2B EX-2 BUFFER PLANTING ELEVATION 20' X 100' WITH 15% REDUCTION FOR 100% NATIVE BUFFER SECTION AFTER 2-3 YEARS
SCALE: 1/4" =1'




2C EX-2 BUFFER PLANTING PLAN 20' X 100' WITH 15% REDUCTION FOR 100% NATIVE BUFFER PLAN
SCALE: 1/4" =1'

Current standards with 15% native plant incentive

**PLANT MATERIAL SELECTION SAMPLE:**

Large / Medium Tree Category - minimum of 6 Sanibel native species

***2000 SF /75 = 27 X .85 = 23 Large/medium Tree required*** (reduction=1tree /87 sf)

Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), Live Oak, (Quercus virginiana)

**MIN SIZE 10'-12' HT. 2" CAL**

Small Tree/Large Shrub- minimum of 6 Sanibel native species

***2000 SF ÷30 = 67 X .85 = 57 Small Tree/shrub Required*** (reduction=1shrub /35 sf)

*57 x .25 = 14 SMALL TREES REQUIRED

Sample shrubs: Key Thatch Palm, (Thrinax morrisii), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahoon Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Cocoa Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Myrsine (Rapanea punctata)

**75% MIN SIZE 7 GAL. 25% MIN SIZE 6' HT**

Small Shrub/Groundcover - minimum of 3 Sanibel native species

***2000 SF ÷25 = 80 X .85 = 68 Small Shrub/groundcover Required***

(reduction=1groundcover/30 sf)

Sample Groundcovers: Short Leaf Wild Coffee (Psychotria igueirtoka), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Brandea littoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Qualiberry (Crossopetalum ilicifolium), Wild Coffee (Psychotria nervosa), Spartina (Spartina baker)

**BUFFER RECOMMENDATIONS | EX-2 BUFFER INCENTIVE REDUCTION**

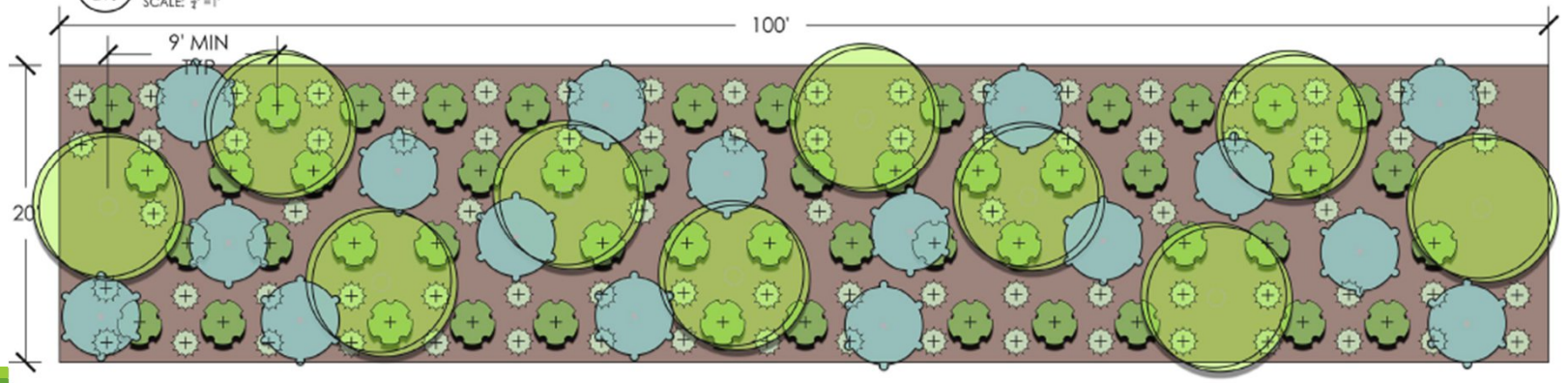
CITY OF SANIBEL, SANIBEL ISLAND FLORIDA




3A EX-3 BUFFER ELEVATION 20' X 100' REDUCED LARGE TREE DENSITY (1 TREE / 200 SF ) AT TIME OF PLANTING
SCALE: 1/4" =1'




3B EX-3 BUFFER ELEVATION 20' X 100' REDUCED LARGE TREE DENSITY (1 TREE / 200 SF ) AFTER 2-3 YEARS
SCALE: 1/4" =1'




3C EX-3 BUFFER PLAN 20' X 100' REDUCED LARGE TREE DENSITY (1 TREE / 200 SF )
SCALE: 1/4" =1'

Proposed standards with reduced tree density (1/200 sqft)

**PLANT MATERIAL SELECTION SAMPLE:**

Large / Medium Tree Category - minimum of 6 Sanibel native species

***2000 SF /200 = 10 Large/medium Tree required***

Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), Live Oak, (Quercus virginiana)

**MIN SIZE 10'-12' HT, 2" CAL**

Small Tree/Large Shrub- minimum of 6 Sanibel native species

***2000 SF ÷30 = 67 Small Tree/shrub Required***
***67 x .25 = 17 SMALL TREES REQUIRED***

Sample shrubs: Key Thatch Palm, (Thrinax morrisii), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahoon Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Coco Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Muhlee (Rapanea punctata)

**70% MIN SIZE 7 GAL, 20% MIN SIZE 6' HT**

Small Shrub/Groundcover - minimum of 3 Sanibel Native species

***2000 SF ÷25 = 80 Small Shrub/groundcover Required***

Sample Groundcovers: Short Leaf Wild Coffee (Psychotria Igustrifolia), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Ibrandea littoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Quailberry (Crossopetalum ilicifolium), \Wild Coffee (Psychotria nervosa), Spartina (Spartina baker)

**MIN SIZE 1 GAL**

**BUFFER RECOMMENDATIONS | EX-3 REDUCED LARGE TREE DENSITY**

CITY OF SANIBEL, SANIBEL ISLAND FLORIDA

# 2. Adjacent land use for side & rear buffers

Issue: Should the side and rear buffer standards take into consideration the adjacent land use?

1. Another commercial property
2. Residential property
3. Conservation lands

Current Requirements: Section 122-50(4) requires that a vegetation buffer between a commercial building or parking or loading area and any dwelling unit be *"sufficiently dense, between (2) feet and 6 feet above ground level, as to screen light and sound passage to the extent reasonably practical. As a minimum, all required small trees and shrubs in such portions of a buffer must be at least 6 feet in height…"* at the time of CO.

Other types of adjacent land uses are not considered.

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Another Commercial Property

Current Requirements

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | 1 per 75 sq ft | 6 native species | 27 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% small trees = 17 |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Another Commercial Property

Recommended Revisions

- 1 large/medium tree per 300 sq ft
- Eliminate requirement that 25% of small tree/medium shrub category be small trees

*Section 122-29(b)(1)a-c*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | ~~1 per 75 sq ft~~<br>1 per 300 sq ft | 6 native species | ~~27~~<br>7 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; ~~25% small trees = 17~~ |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Residential property

Current Requirements

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | 1 per 75 sq ft | 6 native species | 27 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Residential property

Recommended Revision

Keep the same standards as proposed changes to the front buffer to ensure a more robust visual/sound barrier between commercial/institutional and residential areas.

*Section 122-49(a)1-3*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | ~~1 per 75 sq ft~~<br>1 per 200 sq ft | 6 native species | ~~27~~<br>10 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Conservation lands

Current Requirements

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | 1 per 75 sq ft | 6 native species | 27 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 2. Adjacent land use for side & rear buffers

Side & rear commercial/institutional buffers located adjacent to:

Conservation lands

Recommended Revisions

- Require small tree/medium shrub category only to create a distinct barrier between conservation lands to discourage encroachment

- Eliminate large/medium tree and small shrub/groundcover requirements

*Section 122-49(b)(2)a*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| ~~Large/Medium Trees~~ | ~~1 per 75 sq ft~~<br>Remove | ~~6 native species~~ | ~~27~~<br>0 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| ~~Small Shrubs/Groundcovers~~ | ~~1 per 25 sq ft~~<br>Remove | ~~3 native species~~ | ~~80~~<br>0 |

# 3. Buffers with existing mature trees

Issue: Existing, mature trees within a buffer can limit the available planting area, making it difficult to comply with the large/medium tree requirement for a new buffer.

Current Requirements: The code does not distinguish between newly installed and existing trees within buffers.

Recommended Revision:

*Section 122-49(e)*

Allow property owners to receive "credit" for existing mature large/medium size trees within a buffer based on diameter at breast height (DBH) measurements of the existing tree(s)

- DBH 6-10” = two trees
- DBH 10.1-20” = three trees
- DBH 20” or greater = four trees

Benefits/Rationale:

- Recognizes the benefits of large, mature trees
- Reduces harm to existing tree roots and promotes survivability of newly installed trees
- Lowers cost for property owners

# 4. Powerlines and public utility easements within required buffer areas

Issue: Overhead powerlines or underground utility easements can be present within the buffer area making it difficult to accommodate certain plant types

Current Requirements: Section 122-48(d) allows for buffers to be increased in size (depth) to avoid conflicts with overhead powerlines or public utility easements; however, sometimes this is not feasible.

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| Large/Medium Trees | 1 per 75 sq ft | 6 native species | 27 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

# 4. Powerlines and public utility easements within required buffer areas

Powerlines Recommended Revision

Change the quantities required for large/medium trees to small trees for the area of buffer located beneath the powerlines.

*Section 122-49(f)(1)*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| ~~Large/Medium Trees~~<br>Small Trees | ~~1 per 75 sq ft~~<br>1 per 200 sq ft | ~~6 native species~~<br>5 native species | ~~27~~<br>10 |
| Small Trees/Medium Shrubs | 1 per 30 sq ft | 5 native species | 67; 25% must be small trees |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

Benefits/Rationale:

- Reduces conflict with plants growing into powerlines as they mature
- Eliminates need for a variance
- Lowers cost for property owners

# 4. Powerlines and public utility easements within required buffer areas

Public Utility Easement Recommended Revisions

- Eliminate requirements for large/medium trees and small trees/medium shrubs for the portion of the buffer within the easement. Require groundcovers only.

- Plant quantities for large/medium trees and small trees/medium shrubs will be calculated for the remaining buffer outside of the easement.

*Section 122-49(f)(2)*

| Plant Category | Quantity | Diversity | Number (2000 sq ft buffer) |
|---|---|---|---|
| ~~Large/Medium Trees~~ | ~~1 per 75 sq ft~~ | ~~6 native species~~ | ~~27~~ |
| ~~Small Trees/Medium Shrubs~~ | ~~1 per 30 sq ft~~ | ~~5 native species~~ | ~~67; 25% must be small trees~~ |
| Small Shrubs/Groundcovers | 1 per 25 sq ft | 3 native species | 80 |

Benefits/Rationale:

- Reduces likelihood of root systems compromising below ground utilities
- Eliminates need for a variance
- Lowers cost for property owners

# 5. Stormwater areas within required buffer areas

Issue: Increasingly, stormwater areas overlap with required buffer areas. Because these areas hold water and can be subject to holding storm surge for extended periods of time, the plant palette is limited making it difficult to comply with species diversity requirements.

Current Requirements: Not currently addressed in the code

Recommended Revisions: Decrease species diversity requirements in areas where vegetation buffers overlap with designated stormwater areas.

*Section 122-49(f)(3)*

| Species Diversity | Large/Med Trees | Small Trees/Med Shrubs | Small Shrubs/ Groundcovers |
|---|---|---|---|
| Current Requirement | 6 species | 5 species | 3 species |
| Proposed Requirement | 3 species | 3 species | 3 species |

Benefits/Rationale:

- Increases plant survival by following "right plant, right place"
- Limits replacement of plants that don't survive, lowering cost for property owners

# 6. Phased installation of buffers

Issue: Installation of can be costly, especially for new development or lawfully existing non-conforming properties with little to no existing plants within required buffer areas.

Current Requirements: The code does not contain any language regarding phased buffer installation, but this is often a request from property owners/applicants.

Recommended Revision: Mirror current buffer compliance deferment stipulation agreement language

*Section 122-50(f):* A property owner may provide a request in writing for phased installation of required vegetation buffers. The property owner must sign a Stipulation of Phased Vegetation Buffer Installation Agreement and incorporate an approved vegetation buffer plan to ensure the property owner will fully comply with the requirements of this division. Under phased installation, front buffers shall be installed first and must be completed within 12 months of permit approval. Twelve months shall be provided for each additional buffer (i.e. side and rear buffers), up to 48 months for vegetation buffer compliance along all property lines.

Benefits/Rationale:

- Provides property owners a longer timeline for compliance
- Allows cost of buffer installation to be spread over multiple years

# 7. Compliance following natural disaster

Issue: Recent hurricanes and storm surge events have impacted buffer compliance; i.e. required quantities of plants within buffer areas

Current Requirements: Sec. 122-51 – Maintenance standards require buffers that fall out of compliance to be restored within 30 days of notification. The language is general and would currently apply to natural disasters.

Recommend Revision: Mirror language under the post natural disaster build-back standards in Sec. 126-212.

*Section 122-51(b):* Required vegetation buffers destroyed or damaged by accidental fire or other natural and disastrous force must be brought into compliance within two years of the date of destruction or damage. If the declared state of local emergency extends beyond six months, all required vegetation buffers must be reestablished within three years. If the declared state of local emergency extends beyond one year, all required buffers must be reestablished within four years. If another state of local emergency is declared during an existing reestablishment period, the more recent state of local emergency will reset the reestablishment period for buffer compliance. To the extent practicable, the first buffer to be reestablished shall be the front buffer followed by side and rear buffers.

Benefits/Rationale:

- Provides property owners a longer timeline for compliance

# Questions/Discussion

1. Plant quantities in front buffer
2. Land use adjacent to side & rear buffers for commercial/institutional properties
3. Buffers with existing mature trees
4. Powerlines and public utility easements within required buffer areas
5. Stormwater areas within required buffer areas
6. Phased installation of buffers
7. Compliance following natural disaster
8. Other?

# AGENDA MEMORANDUM
## *Planning Department*

**City Council Meeting Date April 21, 2026**

**To:** City Council

**From:** Paula N. C. McMichael, AICP, Planning Director

**Date:** April 6, 2026

---

**SUBJECT**: AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.

**BACKGROUND**:

| Date | Meeting Type | Summary |
|---|---|---|
| 02/24/2026 | LDC Review Subcommittee | Proposed amendment for discussion, forwarded to Planning Commission 7-0 |
| 03/24/2026 | Planning Commission | Recommend approval of draft resolution 6-0 (Vice Chair Steiner abstained) |
| 04/21/2026 | City Council | Discussion and first reading |

At the land development code review subcommittee meeting, staff presented a potential amendment to Section 86-164, related to the design of multifamily buildings, to remove a restriction against flat roofs, which now conflicts with changes made to the architectural standards, and to remove a prohibition of “more than two dwelling units, vertically, at any point in the building” outside of the resort housing district. Following discussion, the subcommittee voted unanimously to remove the prohibition on flat roofs and to add below market rate housing developments to the exception for more than two dwelling units vertically in a multifamily building rather than remove the restriction entirely.

Planning Commission at their meeting of March 24, 2026, voted to recommend approval of the amendment related to flat roofs and retain the restriction on two dwelling units, vertically, as it currently exists in the code, which is for multifamily buildings in the resort housing district, only.

**PROPOSAL**: Amend Section 86-164. – Limitations on principal buildings to delete an obsolete restriction in subsection (b) pertaining to flat roofs, as recommended by Planning Commission.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**: City Council discussion of draft ordinance and move to first reading.

**AGENDA MEMORANDUM**
***Planning Department***

**CITY OF SANIBEL**
**ORDINANCE 26-008**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of 6 to 0 that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 86, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 82 – DEVELOPMENT STANDARDS**

. . .

**ARTICLE III - RESIDENTIAL**

. . .

**DIVISION 3 – UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING**

. . .

**Subdivision III. – Multifamily Housing**

. . .

**Sec. 86-164. - Limitations on vertical design and construction of principal buildings.**

Except in the resort housing district, ~~the following limitations shall apply to principal buildings in multifamily developments:~~

~~(1) N~~ no building shall be designed and constructed so that there are more than two dwelling units, vertically, at any point in the building.

~~(2) A building may not be designed with a flat roof; that is, no plane of the roof may be a slope of less than one to four, vertical to horizontal.~~

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, ON THE 5TH DAY OF MAY 2026.**

Attest:

_____ _____

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

_____

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| DeBruce | _____ | |
| Henshaw | _____ | First Reading: _____ |
| Johnson | _____ | Publication Date: _____ |
| Miller | _____ | Second Reading:_____ |
| Smith | _____ | |

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-07**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RECOMMENDING THAT CITY COUNCIL ADOPT AN ORDINANCE AMENDING THE CODE OF ORDINANCES, SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS.**

**WHEREAS,** the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, at which the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS,** the Planning Commission finds the proposed amendment to be consistent with the Sanibel Plan, as it relates to Objective B9 of Section 3.6.2. Future Land Use Element, for continued implementation of innovative land development regulations to achieve objectives of the Plan; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code, in accordance with the standards set forth in Land Development Code Section 82-241.

**NOW, THEREFORE, BE IT RESOLVED,** the Planning Commission finds the proposed amendments to the Land Development Code attached hereto as Exhibit A, are consistent with the Sanibel Plan, meet the above-referenced requirements, and recommends that the City Council adopt said amendments in the form of an ordinance.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Abstain |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

**EXHIBIT A OF RESOLUTION**

**Agenda Item**
**Meeting of**

**CITY OF SANIBEL**
**ORDINANCE 26-**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of _ to _ that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 86, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 82 – DEVELOPMENT STANDARDS**

. . .

**ARTICLE III - RESIDENTIAL**

. . .

**DIVISION 3 – UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING**

. . .

**Subdivision III. – Multifamily Housing**

. . .

**Sec. 86-164. - Limitations on vertical design and construction of principal buildings.**

Except in the resort housing district, ~~the following limitations shall apply to principal buildings in multifamily developments:~~

~~(1) N~~ no building shall be designed and constructed so that there are more than two dwelling units, vertically, at any point in the building.

~~(2) A building may not be designed with a flat roof; that is, no plane of the roof may be a slope of less than one to four, vertical to horizontal.~~

. . .

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager

**Date:** April 12, 2026

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**SUBJECT:** Draft Discussion and First Reading of Ordinance 26-011 amending Chapter 66, Traffic, Article III, Speed Limits to authorize the City Council to establish roadway speed limits by Resolution.

**BACKGROUND**: At its March 3, 2026, meeting, the City Council received the "Speed Study and Passing Zone Analysis" (the "Speed Analysis"). Following discussion and public comment, the City Council reached consensus directing staff to return with an action item to reduce speed limits on the following roads:

1. E. Periwinkle Way from Causeway Blvd. to Lighthouse Beach Park – reduce the speed limit from 35 mph to 25 mph.

2. Periwinkle Way from Causeway Blvd. to Tarpon Bay Rd. – reduce the speed limit from 35 mph to 30 mph.

Because Section 66-121 of the Sanibel Code of Ordinances currently establishes the maximum speed limit on Periwinkle Way from Ferry Road (east) to Tarpon Bay Road (west) at 35 miles per hour, the Code must be amended in order to reduce the speed limit on that roadway.

Staff recommends that the City Council consider approving Ordinance 26-011 that establishes a citywide maximum speed limit of 35 miles per hour and authorizes the City Council to set specific roadway speed limits by resolution.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**:
1. Discussion and direction.
2. Schedule Ordinance 26-011 for Second Reading and Public Hearing on May 5, 2026.

**CITY OF SANIBEL**
**DRAFT ORDINANCE 26-011**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, CHAPTER 66, TRAFFIC, ARTICLE III, SPEED LIMITS, DIVISION 1, GENERALLY, SECTION 66-121, THIRTY-FIVE MILE PER HOUR SPEED LIMIT, AND DELETING SECTION 66-122, BRIDGE AT BUELL CREEK; SPEED LIMIT; TO ALLOW CITY COUNCIL TO ESTABLISH SPEED LIMITS WITHIN THE CITY VIA RESOLUTION; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, Section 66-121 of the Sanibel Code of Ordinances currently establishes the maximum speed limit on Periwinkle Way from Ferry Road (east) to Tarpon Bay Road (west) at 35 miles per hour; and

**WHEREAS**, Section 66-122 of the Sanibel Code of Ordinances currently establishes the maximum speed limit at the Bridge at Buell Creek on Bay Rd. at 10 miles per hour; and

**WHEREAS,** the City Council finds that it is in the best interest of the public health, safety, and welfare to provide flexibility in establishing speed limits; and

**WHEREAS**, Chapter 316, Florida Statutes, authorizes municipalities to establish speed limits based upon appropriate traffic engineering studies; and

**WHEREAS**, the City Council desires to amend its Code of Ordinances to establish roadway speed limits by Resolution rather than fixed within the Code of Ordinances.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Chapter 66, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 66 - TRAFFIC**

. . .

**ARTICLE III. – SPEED LIMITS**

**DIVISION 1. - GENERALLY**

**Sec.66-121. - Thirty-five mile per hour speed limit.**

<u>The maximum speed limit on roadways shall be 35 miles per hour.</u>

<u>The speed limits within the city shall be established by the City Council by resolution. Such resolutions may designate maximum lawful speeds on any streets, roads, bridges, or portions thereof,</u>

as determined appropriate for public safety and traffic regulation; provided, however, that no maximum speed shall exceed 35 miles per hour.

All speed limits established by resolution shall be adopted in accordance with applicable provisions of state law, including but not limited to chapter 316, Florida Statutes, and any required traffic engineering studies.

~~The maximum speed within the city shall be 35 miles per hour along the following routes:~~

~~Westerly along Periwinkle Way beginning at the intersection of Ferry Road and terminating at Tarpon Bay Road; generally north and westerly along Palm Ridge Road from the intersection at Periwinkle to the intersection at Tarpon Bay Road; and thence westerly along Sanibel Captiva Road to the western most corporate limits of the city.~~

~~**Sec. 66-122. - Bridge at Buell Creek; speed limit.**~~

~~The maximum rate of speed for any vehicle traversing the bridge at Buell Creek on Bay Drive (formerly known as Old Bayshore Road) shall be ten miles per hour and it is unlawful and prohibited for any person to exceed such speed limit.~~

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THE 5TH DAY OF MAY 2026.**

Attest:

Scotty Lynn Kelly, City Clerk

Mike Miller, Mayor

Approved as to form and legality:

_____
John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| Miller | _____ | |
| Smith | _____ | First Reading: April 21, 2026 |
| DeBruce | _____ | Publication Date: _____ |
| Henshaw | _____ | Second Reading: _____ |
| Johnson | _____ | |

# City of Sanibel

City Council

## Natural Resources Department
## Agenda Memorandum

**City Council Meeting Date: 4/21/2026**

**To:** City Council

**From:** Dana Dettmar, Environmental Biologist

**Date:** April 1, 2026

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**TITLE: AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**REVIEW TIMELINE**

| Date | Meeting Type | Summary |
|---|---|---|
| 02/24/2026 | LDC Subcommittee | Feedback provided to staff on recommended revisions. Staff directed to draft code language to be reviewed by Planning Commission. |
| 3/24/2026 | Planning Commission | Minor revisions to the language. Planning Commission unanimously approved the revisions through PC Resolution 26-09 with the recommendation for City Council to adopt the amendments in the form of an ordinance. |
| 4/21/2026 | City Council | Discussion and first reading to occur at current meeting. |

**PROPOSAL SUMMARY**

Consideration of revisions to the vegetation buffer standards contained in Chapter 122, Article II, Division 2 related to commercial and institutional uses.

Recommended revisions include decreases in tree quantities and changes to plant types/quantities dependent on the adjacent use as well as the addition of language to address existing mature trees within buffer areas,

compliance following a natural disaster, phased installation of required buffers, and presence of powerlines, public utility easements, and stormwater areas that fall within required buffer areas. Staff to provide a presentation that details the proposed amendments.

**PUBLIC COMMENT:** Staff have not received public comment on this item.

**FUNDING SOURCE:** N/A

**RECOMMENDATION:** Move the draft Ordinance 26-006 to second reading at the May 5th City Council meeting.

**CITY OF SANIBEL**
**ORDINANCE 26-006**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MAINTENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Natural Resources Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of 7 to 0 that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 122, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 122 - VEGETATION**

. . .

**ARTICLE II. – LANDSCAPING**

. . .

**DIVISION 2. - COMMERCIAL AND INSTITUTIONAL USES**

. . .

**Sec.122-49. – Types, varieties, and numbers of plants required.**

~~Each v~~Vegetation buffers required by this division shall be installed with plants meeting the following requirements:

(a~~1~~) Front / right-of-way buffers.~~Each required vegetation buffer shall include at least one large or medium tree for each 75 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of six different species of native plants included.~~

(1) Each required vegetation buffer shall include at least one large or medium tree for each 200 square feet of the required buffer area with a minimum of six different species of native plants included.

(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(b) Side and rear buffers shall comply with section 122-49(a), except as follows:

(1) Side and rear buffers adjacent to a commercial or institutional use.

a. Each required vegetation buffer shall include at least one large or medium tree for each 300 square feet of the required buffer area with a minimum of six different species of native plants included.

b. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area with a minimum of five different species of native plants included.

c. Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(2) Side and rear buffer adjacent to conservation lands shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(c) The square footage for existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways within a required vegetation buffer shall be excluded from calculations for required plant quantities.

~~(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, (at least 25 percent of which must be small trees), with a minimum of five different~~

~~species of native plants included.~~

~~(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.~~

(d~~4~~) A minimum of 75 percent of the plants required by each of the subsections (1) through (3) of this section shall be native plants. The remainder may be either native plants or noncompeting exotic species of plant. Invasive exotic vegetation shall not be permitted within the required buffers. The category for native plants (as large or medium trees, small trees or medium shrubs, or low growing (small) shrubs or groundcover plants) is specified on the city's horticulturally available native plants list maintained by the city's natural resources department. The applicable category for noncompeting exotic species of plant shall be as determined by the city manager, or the manager's designee, categorized by size in a manner consistent with the horticulturally available native plant list maintained by the city's natural resources department. Existing, preserved plants shall be counted toward meeting the requirements of this division.

(e) A credit for large or medium tree quantity requirements shall be applied to vegetation buffers with existing mature canopy trees in the large or medium tree category that are retained. The following scale shall be applied to determine tree credits using the diameter at breast height (DBH) measurement of the existing mature canopy tree for which credit is sought:

(1) DBH 6”-10” is equivalent to two medium or large trees;

(2) DBH 10.1”-20” is equivalent to three medium or large trees;

(3) DBH 20” or greater is equivalent to four medium or large trees.

(f) If the vegetation buffer depth cannot be increased to accommodate drainage easements and facilities, overhead powerlines, public utility easements containing underground utilities, and other natural or manmade features that exist within a required vegetation buffer pursuant to section 122-48(d), the following standards shall apply:

(1) For any portion of a required vegetation buffer that contains overhead powerlines, small trees shall be substituted for the required quantity of large or medium trees.

(2) For any portion of a required vegetation buffer that overlaps with public utility easements, plant quantity calculations for large or medium trees and small trees or medium shrubs shall be omitted. Only groundcovers will be required in the portions of the buffer in which public utility easements exist.

(3) When a majority of a required buffer area (greater than 50% of the square footage) overlaps with drainage easements or facilities, the species diversity requirement shall be reduced to a minimum of three species for large or medium trees and a minimum of three species for small trees or medium shrubs. Low growing (small) shrub or groundcover species diversity shall remail the same.

(g~~5~~) An administrative waiver to subsections (a~~1~~), and (b~~2~~), ~~and (3),~~ to incentivize use of

native plant species in landscaping, may be authorized, if the following conditions are met:

(1)~~a.~~ All vegetation within a required vegetation buffer is 100 percent native plant species.

(2)~~b.~~ Eighty-five percent of the total number of plants required by subsections (a~~1~~)~~,~~ and (b~~2~~), ~~and (3)~~ are installed pursuant to section 122-50.

**Sec. 122-50. - Installation standards.**

All vegetation installed to meet the requirements of this division shall be planted in conformance with the following standards:

(a~~1~~) The placement of plants comprising the vegetation buffer need not be uniform, but the required plants within each category shall be thoroughly distributed throughout the buffer area.

(b~~2~~) The quality of plants used in the vegetation buffers shall conform to the standards of Florida No. 1 or better, as provided in Grades and Standards for Nursery Plants, 2nd edition, February 1998 PI #97T-05, published by the Division of Plant Industry, State Department of Agriculture and Consumer Services, as it may be revised from time to time.

(c~~3~~) Large and medium trees installed in a vegetation buffer, and existing, preserved large and medium trees used to meet the requirements of this division, must be a minimum of eight feet in height for medium trees and 12 feet in height for large trees. Nursery stock large and medium trees shall be in ten gallon or larger containers at the time of installation. Small trees must be a minimum height of six feet and shrubs a minimum height of 18 inches. Nursery stock small trees and shrubs shall be in seven gallon or larger containers for small trees and in three-gallon or larger containers for shrubs at the time of installation. Nursery stock low growing (small) shrubs and groundcover plants shall be in one gallon or larger containers at the time of installation.

~~(4) Any part of a required vegetation buffer which lies directly between (line of sight) any commercial building or parking or loading area and any dwelling unit shall be sufficiently dense, between two feet and six feet above ground level, as to screen light and sound passage to the extent reasonably practical. As a minimum, all required small trees and shrubs in such portions of a buffer must be at least six feet in height at the time a completion certificate or certificate of occupancy is issued.~~

(d~~5~~) All vegetation buffers shall be installed in a sound and professional manner according to good planting procedures and in accordance with any applicable requirement of this Land Development Code or other ordinance of the city.

(e~~6~~) All required vegetation buffers shall be protected from vehicular encroachment from adjacent streets, driveways, parking areas, and loading areas.

(f) A property owner may provide a request in writing for phased installation of required vegetation buffers. The property owner must sign a Stipulation of Phased Vegetation Buffer Installation Agreement and incorporate an approved vegetation buffer plan to ensure the property owner will fully comply with the requirements of this division. Under phased installation, front buffers shall be installed first and must be completed within 12 months of permit approval. Twelve months shall be provided for each additional buffer (i.e. side and rear buffers), up to 48 months for vegetation buffer compliance along all property lines.

(g~~7~~) A completion certificate or certificate of occupancy shall not be issued unless required vegetation buffers meet all the requirements of this division or the property owner has obtained a Stipulation of Phased Vegetation Buffer Installation Agreement.

**Sec. 122-51. - Maintenance standards.**

(a) All plants used to meet the requirements for vegetation buffers provided in this division shall be permitted to mature to the natural height and growth pattern of the plants; and all plants shall be permitted to produce their natural fruit and provide cover for wildlife by emulating their natural growth patterns. All plants required for conformance with this division shall be inspected by the city manager, or the manager's designee, six months after installation, and periodically thereafter, to ensure that they are maintained and are surviving in a healthy condition and are being maintained in accordance with the requirements and standards of this division and applicable provisions of this Code or permit. Any plants appearing unable to sustain healthy future growth or are missing from the vegetation buffer shall be replaced by ones that conform to the requirements of this division. Replacement vegetation must be installed within 30 days after notification of such requirement by the city manager, or the manager's designee. Maintenance trimming to keep vegetation from encroaching upon bordering driveways, walkways, parking areas, roads and shared use paths is permitted.

(b) Required vegetation buffers destroyed or damaged by accidental fire or other natural and disastrous force must be brought into compliance within two years of the date of destruction or damage. If the declared state of local emergency extends beyond six months, all required vegetation buffers must be reestablished within three years. If the declared state of local emergency extends beyond one year, all required buffers must be reestablished within four years. If another state of local emergency is declared during an existing reestablishment period, the more recent state of local emergency will reset the reestablishment period for buffer compliance. To the extent practicable, the first buffer to be reestablished shall be the front buffer followed by side and rear buffers.

(c) ~~(b)~~ Failure to maintain vegetation buffers required by this division may be grounds for revocation of a development permit, or any other permit or approval issued pursuant to this Land Development Code, as provided in sections 82-33 and 82-34, or any other enforcement proceeding provided in chapter 82, article VII.

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, ON THE 5TH DAY OF**

**MAY 2026.**

Attest:

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| DeBruce | _____ | |
| Henshaw | _____ | First Reading: _____ |
| Johnson | _____ | Publication Date: _____ |
| Miller | _____ | Second Reading:_____ |
| Smith | _____ | |

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-09**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RECOMMENDING THAT CITY COUNCIL ADOPT AN ORDINANCE AMENDING THE CODE OF ORDINANCES, SUBPART B LAND DEVELOPMENT CODE, CHAPTER 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS.**

**WHEREAS,** the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, at which the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS,** the Planning Commission finds the proposed amendment to be consistent with the Sanibel Plan, as it relates to Objective B9 of Section 3.6.2. Future Land Use Element, for continued implementation of innovative land development regulations to achieve objectives of the Plan, and with the Plan for scenic preservation, which requires vegetation buffer to enhance compatibility of buildings with the community as a whole; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code, in accordance with the standards set forth in Land Development Code Section 82-241.

**NOW, THEREFORE, BE IT RESOLVED,** the Planning Commission finds the proposed amendments to the Land Development Code attached hereto as Exhibit A, are consistent with the Sanibel Plan, meet the above-referenced requirements, and recommends that the City Council adopt said amendments in the form of an ordinance.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Aye |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

**EXHIBIT A OF RESOLUTION**

**Agenda Item**
**Meeting of**

**CITY OF SANIBEL**
**ORDINANCE 25-**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, 122, VEGETATION, ARTICLE II, LANDSCAPING, DIVISION 2, COMMERCIAL AND INSTITUTIONAL USES, SECTION 122-49, TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED, SECTION 122-50, INSTALLATION STANDARDS, AND SECTION 122-51, MANITENANCE STANDARDS, TO REVISE THE VEGETATION BUFFER STANDARDS FOR COMMERCIAL AND INSTITUTIONAL USES, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to revising the vegetation buffer standards for commercial and institutional uses; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of _ to _ that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 122, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 122 - VEGETATION**

* * *

**ARTICLE II. – LANDSCAPING**

* * *

**DIVISION 2. - COMMERCIAL AND INSTITUTIONAL USES**

* * *

**Sec.122-49. – Types, varieties, and numbers of plants required.**

~~Each v~~Vegetation buffer required by this division shall be installed with plants meeting the following requirements:

(a~~1~~) Front / right-of-way buffers. ~~Each required vegetation buffer shall include at least one large or medium tree for each 75 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of six different species of native plants included.~~

(1) Each required vegetation buffer shall include at least one large or medium tree for each 200 square feet of the required buffer area with a minimum of six different species of native plants included.

(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(b) Side and/or rear buffers shall comply with section 122-49(a), except as follows:

(1) Side and/or rear buffers adjacent to a commercial or institutional use.

a. Each required vegetation buffer shall include at least one large or medium tree for each 300 square feet of the required buffer area with a minimum of six different species of native plants included.

b. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area with a minimum of five different species of native plants included.

c. Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.

(2) Side and/or rear buffer adjacent to conservation lands.

a. Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer area (at least 25 percent of which must be small trees) with a minimum of five different species of native plants included.

(c) The square footage for existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways within a required vegetation buffer shall be excluded from calculations for required plant quantities.

~~(2) Each required vegetation buffer shall include at least one small tree or medium shrub for each 30 square feet of the required buffer areas, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, (at least 25 percent of which must be small trees), with a minimum of five different species of native plants included.~~

~~(3) Each required vegetation buffer shall include at least one low growing (small) shrub or groundcover plant for each 25 square feet of the required buffer area, excluding areas within existing or proposed ingress-egress driveways or inter- and intra-connectivity pathways, with a minimum of three different species of native plants included. No St. Augustine, Bermuda, Zoysia, Bahia, or sod-type grasses or vines shall be used to satisfy this requirement.~~

(d~~4~~) A minimum of 75 percent of the plants required by each of the subsections (1) through (3) of this section shall be native plants. The remainder may be either native plants or noncompeting exotic species of plant. Invasive exotic vegetation shall not be permitted within the required buffers. The category for native plants (as large or medium trees, small trees or medium shrubs, or low growing (small) shrubs or groundcover plants) is specified on the city's horticulturally available native plants list maintained by the city's natural resources department. The applicable category for noncompeting exotic species of plant shall be as determined by the city manager, or the manager's designee, categorized by size in a manner consistent with the horticulturally available native plant list maintained by the city's natural resources department. Existing, preserved plants shall be counted toward meeting the requirements of this division.

(e) A credit for large or medium tree quantity requirements shall be applied to vegetation buffers with existing mature canopy trees in the large or medium tree category that are retained. The following scale shall be applied to determine tree credits using the diameter at breast height (DBH) measurement of the existing mature canopy tree for which credit is sought:

(1) DBH 6"-10" is equivalent to two medium or large trees;

(2) DBH 10.1"-20" is equivalent to three medium or large trees;

(3) DBH 20" or greater is equivalent to four medium or large trees.

(f) If the vegetation buffer depth cannot be increased to accommodate drainage easements and facilities, overhead powerlines, public utility easements containing underground utilities, and other natural or manmade features that exist within a required vegetation buffer pursuant to section 122-48(d), the following standards shall apply:

(1) For any portion of a required vegetation buffer that contains overhead powerlines, small trees shall be substituted for the required quantity of large or medium trees.

(2) For any portion of a required vegetation buffer that overlaps with public utility easements, plant quantity calculations for large or medium trees and small trees or medium shrubs shall be omitted. Only groundcovers will be required in the portions of the buffer in which public utility easements exist.

(3) When a majority of a required buffer area (greater than 50% of the square footage) overlaps with drainage easements or facilities, the species diversity requirement shall be reduced to a minimum of three species for large or

medium trees and a minimum of three species for small trees or medium shrubs. Low growing (small) shrub or groundcover species diversity shall remail the same.

(g~~5~~) An administrative waiver to subsections (a~~1~~), and (b~~2~~), ~~and (3),~~ to incentivize use of native plant species in landscaping, may be authorized, if the following conditions are met:

(1)~~a.~~ All vegetation within a required vegetation buffer is 100 percent native plant species.

(2)~~b.~~ Eighty-five percent of the total number of plants required by subsections (a~~1~~), and (b~~2~~), ~~and (3)~~ are installed pursuant to section 122-50.

**Sec. 122-50. - Installation standards.**

All vegetation installed to meet the requirements of this division shall be planted in conformance with the following standards:

(a~~1~~) The placement of plants comprising the vegetation buffer need not be uniform, but the required plants within each category shall be thoroughly distributed throughout the buffer area.

(b~~2~~) The quality of plants used in the vegetation buffers shall conform to the standards of Florida No. 1 or better, as provided in Grades and Standards for Nursery Plants, 2nd edition, February 1998 PI #97T-05, published by the Division of Plant Industry, State Department of Agriculture and Consumer Services, as it may be revised from time to time.

(c~~3~~) Large and medium trees installed in a vegetation buffer, and existing, preserved large and medium trees used to meet the requirements of this division, must be a minimum of eight feet in height for medium trees and 12 feet in height for large trees. Nursery stock large and medium trees shall be in ten gallon or larger containers at the time of installation. Small trees must be a minimum height of six feet and shrubs a minimum height of 18 inches. Nursery stock small trees and shrubs shall be in seven gallon or larger containers for small trees and in three-gallon or larger containers for shrubs at the time of installation. Nursery stock low growing (small) shrubs and groundcover plants shall be in one gallon or larger containers at the time of installation.

~~(4) Any part of a required vegetation buffer which lies directly between (line of sight) any commercial building or parking or loading area and any dwelling unit shall be sufficiently dense, between two feet and six feet above ground level, as to screen light and sound passage to the extent reasonably practical. As a minimum, all required small trees and shrubs in such portions of a buffer must be at least six feet in height at the time a completion certificate or certificate of occupancy is issued.~~

(d~~5~~) All vegetation buffers shall be installed in a sound and professional manner according to good planting procedures and in accordance with any applicable requirement of this Land Development Code or other ordinance of the city.

(e~~6~~) All required vegetation buffers shall be protected from vehicular encroachment from adjacent streets, driveways, parking areas, and loading areas.

(f) A property owner may provide a request in writing for phased installation of required vegetation buffers. The property owner must sign a Stipulation of Phased Vegetation Buffer Installation Agreement and incorporate an approved vegetation buffer plan to ensure the property owner will fully comply with the requirements of this division. Under phased installation, front buffers shall be installed first and must be completed within 12 months of permit approval. Twelve months shall be provided for each

additional buffer (i.e. side and rear buffers), up to 48 months for vegetation buffer compliance along all property lines.

(g~~f~~) A completion certificate or certificate of occupancy shall not be issued unless required vegetation buffers meet all the requirements of this division or the property owner has obtained a Stipulation of Phased Vegetation Buffer Installation Agreement.

**Sec. 122-51. - Maintenance standards.**

(a) All plants used to meet the requirements for vegetation buffers provided in this division shall be permitted to mature to the natural height and growth pattern of the plants; and all plants shall be permitted to produce their natural fruit and provide cover for wildlife by emulating their natural growth patterns. All plants required for conformance with this division shall be inspected by the city manager, or the manager's designee, six months after installation, and periodically thereafter, to ensure that they are maintained and are surviving in a healthy condition and are being maintained in accordance with the requirements and standards of this division and applicable provisions of this Code or permit. Any plants appearing unable to sustain healthy future growth or are missing from the vegetation buffer shall be replaced by ones that conform to the requirements of this division. Replacement vegetation must be installed within 30 days after notification of such requirement by the city manager, or the manager's designee. Maintenance trimming to keep vegetation from encroaching upon bordering driveways, walkways, parking areas, roads and shared use paths is permitted.

(b) Required vegetation buffers destroyed or damaged by accidental fire or other natural and disastrous force must be brought into compliance within two years of the date of destruction or damage. If the declared state of local emergency extends beyond six months, all required vegetation buffers must be reestablished within three years. If the declared state of local emergency extends beyond one year, all required buffers must be reestablished within four years. If another state of local emergency is declared during an existing reestablishment period, the more recent state of local emergency will reset the reestablishment period for buffer compliance. To the extent practicable, the first buffer to be reestablished shall be the front buffer followed by side and rear buffers.

(c) Failure to maintain vegetation buffers required by this division may be grounds for revocation of a development permit, or any other permit or approval issued pursuant to this Land Development Code, as provided in sections 82-33 and 82-34, or any other enforcement proceeding provided in chapter 82, article VII.

* * *

**AGENDA MEMORANDUM**
***Planning Department***

**City Council Meeting Date April 21, 2026**

**To:** City Council

**From:** Paula N. C. McMichael, AICP, Planning Director

**Date:** April 6, 2026

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**SUBJECT**: AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.

**BACKGROUND**:

| Date | Meeting Type | Summary |
|---|---|---|
| 02/24/2026 | LDC Review Subcommittee | Proposed amendment for discussion, forwarded to Planning Commission 7-0 |
| 03/24/2026 | Planning Commission | Recommend approval of draft resolution 6-0 (Vice Chair Steiner abstained) |
| 04/21/2026 | City Council | Discussion and first reading |

At the land development code review subcommittee meeting, staff presented a potential amendment to Section 86-164, related to the design of multifamily buildings, to remove a restriction against flat roofs, which now conflicts with changes made to the architectural standards, and to remove a prohibition of “more than two dwelling units, vertically, at any point in the building” outside of the resort housing district. Following discussion, the subcommittee voted unanimously to remove the prohibition on flat roofs and to add below market rate housing developments to the exception for more than two dwelling units vertically in a multifamily building rather than remove the restriction entirely.

Planning Commission at their meeting of March 24, 2026, voted to recommend approval of the amendment related to flat roofs and retain the restriction on two dwelling units, vertically, as it currently exists in the code, which is for multifamily buildings in the resort housing district, only.

**PROPOSAL**: Amend Section 86-164. – Limitations on principal buildings to delete an obsolete restriction in subsection (b) pertaining to flat roofs, as recommended by Planning Commission.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**: City Council discussion of draft ordinance and move to first reading.

**AGENDA MEMORANDUM**
***Planning Department***

**CITY OF SANIBEL**
**ORDINANCE 26-008**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of 6 to 0 that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 86, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 82 – DEVELOPMENT STANDARDS**

. . .

**ARTICLE III - RESIDENTIAL**

. . .

**DIVISION 3 – UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING**

. . .

**Subdivision III. – Multifamily Housing**

. . .

**Sec. 86-164. - Limitations on vertical design and construction of principal buildings.**

Except in the resort housing district, ~~the following limitations shall apply to principal buildings in multifamily developments:~~

~~(1) N~~ no building shall be designed and constructed so that there are more than two dwelling units, vertically, at any point in the building.

~~(2) A building may not be designed with a flat roof; that is, no plane of the roof may be a slope of less than one to four, vertical to horizontal.~~

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, ON THE 5TH DAY OF MAY 2026.**

Attest:

_____ _____

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

_____

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| DeBruce | _____ | |
| Henshaw | _____ | First Reading: _____ |
| Johnson | _____ | Publication Date: _____ |
| Miller | _____ | Second Reading:_____ |
| Smith | _____ | |

**CITY OF SANIBEL**
**PLANNING COMMISSION RESOLUTION 26-07**

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, RECOMMENDING THAT CITY COUNCIL ADOPT AN ORDINANCE AMENDING THE CODE OF ORDINANCES, SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS.**

**WHEREAS,** the Planning Commission held a legally and properly advertised public hearing on March 24, 2026, at which the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS,** the Planning Commission finds the proposed amendment to be consistent with the Sanibel Plan, as it relates to Objective B9 of Section 3.6.2. Future Land Use Element, for continued implementation of innovative land development regulations to achieve objectives of the Plan; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code, in accordance with the standards set forth in Land Development Code Section 82-241.

**NOW, THEREFORE, BE IT RESOLVED,** the Planning Commission finds the proposed amendments to the Land Development Code attached hereto as Exhibit A, are consistent with the Sanibel Plan, meet the above-referenced requirements, and recommends that the City Council adopt said amendments in the form of an ordinance.

**PASSED IN OPEN AND REGULAR SESSION OF THE PLANNING COMMISSION OF THE CITY OF SANIBEL, FLORIDA, THIS 24TH DAY OF MARCH 2026.**

Attest:

Anna M. Hicks, Deputy City Clerk

Paul Nichols, Chair

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: March 24, 2026

Vote of Commission Members:

| | |
|---|---|
| Nichols | Aye |
| Steiner | Abstain |
| Burns | Aye |
| Colter | Aye |
| Schopp | Aye |
| Sergeant | Aye |
| Welch | Aye |

**EXHIBIT A OF RESOLUTION**

**Agenda Item**
**Meeting of**

**CITY OF SANIBEL**
**ORDINANCE 26-**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES SUBPART B LAND DEVELOPMENT CODE, CHAPTER 86, DEVELOPMENT STANDARDS, ARTICLE III, RESIDENTIAL, DIVISION 3, UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING, SUBDIVISION III, MULTIFAMILY HOUSING, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, FOR THE PURPOSE OF UPDATING THE LAND DEVELOPMENT CODE REGULATIONS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Planning Commission held a legally and properly advertised public hearing on March24, 2026, on specific proposed amendments to the Land Development Code; and

**WHEREAS**, the Planning Commission heard and considered comments and recommendations from the Planning Staff and the public pertaining to a draft amendment related to limitations on vertical design and construction of principal buildings; and

**WHEREAS**, the Planning Commission may recommend to the City Council amendments to regulations of the Land Development Code (LDC), in accordance with the standards set forth in LDC Section 82-241; and

**WHEREAS,** the Planning Commission found the proposed amendments to the LDC as referenced above to be consistent with the Sanibel Plan and meet the requirements of LDC Section 82-241, and recommended by a vote of _ to _ that the City Council adopt said amendments in the form of an ordinance.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Subpart B. Land Development Code, Chapter 86, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 82 – DEVELOPMENT STANDARDS**

. . .

**ARTICLE III - RESIDENTIAL**

. . .

**DIVISION 3 – UNIFIED RESIDENTIAL HOUSING (CLUSTER HOUSING) AND MULTIFAMILY HOUSING**

. . .

**Subdivision III. – Multifamily Housing**

. . .

**Sec. 86-164. - Limitations on vertical design and construction of principal buildings.**

Except in the resort housing district, ~~the following limitations shall apply to principal buildings in multifamily developments:~~

~~(1) N~~ no building shall be designed and constructed so that there are more than two dwelling units, vertically, at any point in the building.

~~(2) A building may not be designed with a flat roof; that is, no plane of the roof may be a slope of less than one to four, vertical to horizontal.~~

. . .

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager

**Date:** April 13, 2026

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**SUBJECT**: First Reading of Ordinance 26-010 repealing Chapter 30, Environment, Article III, Noise, Section 30-70, Gas Powered Leaf Blowers, due to State preemption .

**BACKGROUND**: During the 2026 Legislative Session, Senator Truenow filed Senate Bill 290 (SB 290), titled Department of Agriculture and Consumer Services and commonly referred to as the "Florida Farm Bill." The bill includes provisions prohibiting municipalities from enacting or enforcing laws, ordinances, or resolutions that restrict or prohibit the use of gasoline-powered landscape equipment, including gasoline-powered leaf blowers.

The bill was approved by both the House and Senate and transmitted to the Governor on March 18, 2026. A copy of the Bill is attached.

Governor DeSantis signed SB 290 into law on March 23, 2026, with an effective date of July 1, 2026. Click here to read the Governor's news release.

This legislation will preempt Section 30-70 – Gas powered leaf blowers of the Sanibel Code of Ordinances effective July 1, 2026. Accordingly, I have directed Code Enforcement to discontinue enforcement of the existing prohibition.

Ordinance 26-010 repeals Section 30-70 – Gas powered leaf blowers to be consistent with Florida Statutes.

Separately, the City will continue to prohibit the use of gas-powered leaf blowers by City staff and contractors, except when necessary to respond to storm-related events.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**: Schedule Second Reading and Public Hearing for May 5, 2026.

**CITY OF SANIBEL**
**ORDINANCE 26-010**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, BY DELETING IN ITS ENTIRETY CHAPTER 30, ENVIRONMENT, ARTICLE III, NOISE, SECTION 30-70, GAS POWERED LEAF BLOWERS, TO COMPLY WITH CHAPTER 2026-3, LAWS OF FLORIDA; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, on August 24, 2021, the City Council adopted Ordinance 21-004 amending Section 30-70, Gas Powered Leaf Blowers, to prohibit the operation of gas powered leaf blowers after December 31, 2022, except during a State of Local Emergency related to a weather event; and

**WHEREAS,** on December 2, 2022, the City Council adopted Ordinance 22-007 extending the date when gas powered leaf blowers would be prohibited on Sanibel from December 31, 2022, to June 30, 2023; and

**WHEREAS**, the States of Local Emergency related to Hurricane Ian (September 2022), Hurricane Helene (September 2024), and Hurricane Milton (October 2024) extended beyond six months; and

**WHEREAS**, on July 15, 2025, City Council adopted Ordinance 25-010 to amend Section 30-70(2) to ensure the use of gasoline-powered leaf blowers is not extended unnecessarily beyond the period of time when such equipment may be needed during the response and the initial recovery phases following a significant weather event; and

**WHEREAS**, on March 23, 2026, Governor DeSantis signed SB 290 into law (Chapter 2026-3, Laws of Florida, with an effective date of July 1, 2026, which prohibits municipalities from enacting or enforcing legislation that restricts or prohibits the use of gasoline-powered leaf blowers.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Chapter 30, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 30 - ENVIRONMENT**

. . .

**ARTICLE III. - NOISE**

. . .

~~**Sec. 30-70. – Gas powered leaf blowers.**~~

~~Notwithstanding any contrary terms or provisions elsewhere in the Code:~~

~~(a) Except for tow-behind debris blowers operated on a golf course, the use of gas~~

~~powered leaf blowers within the city for any purpose, whether for private, governmental, or commercial purpose is prohibited for use after November 30, 2025.~~

~~(b) The limitations and prohibitions in this section may be waived by mayoral proclamation or city council resolution when the city has declared a state of local emergency related to a weather event.~~

**Secs. 30-70~~71~~ - 30-90. Reserved.**

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THE 5TH DAY OF MAY 2026.**

Attest:

_____ _____

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

_____

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| DeBruce | _____ | |
| Henshaw | _____ | First Reading: _____ |
| Johnson | _____ | Publication Date: _____ |
| Miller | _____ | Second Reading: _____ |
| Smith | _____ | |

An act relating to the Department of Agriculture and Consumer Services; creating s. 125.489, F.S.; defining the terms "gasoline-powered farm equipment" and "gasoline-powered landscape equipment"; prohibiting counties from enacting or enforcing any law that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment or that distinguishes such equipment from any other equipment under certain circumstances; providing construction; amending s. 163.3164, F.S.; defining the terms "ecologically significant parcel" and "low-density municipality"; amending s. 163.3202, F.S.; prohibiting an application for a development on an ecologically significant parcel in a low-density municipality from being administratively approved without an attestation provided by the developer; specifying requirements for such attestation; providing applicability; specifying requirements for the attestation included in certain applications; providing for a waiver; creating s. 166.063, F.S.; defining the terms "gasoline-powered farm equipment" and "gasoline-powered landscape equipment"; prohibiting municipalities from enacting or enforcing any law that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment or that distinguishes such equipment from any other equipment under certain circumstances; providing construction; amending s.

212.055, F.S.; conforming a cross-reference; making a technical change; amending s. 253.0341, F.S.; requiring the Acquisition and Restoration Council to determine whether certain surplused lands are suitable for bona fide agricultural purposes; prohibiting a local governmental entity from transferring future development rights for surplused lands determined to be suitable for bona fide agricultural purposes; requiring the Department of Environmental Protection, in coordination with the Department of Agriculture and Consumer Services, to determine whether certain state-owned conservation lands are suitable for bona fide agricultural purposes; authorizing the Department of Environmental Protection to surplus certain state-owned lands determined to be suitable for bona fide agricultural purposes; requiring the Department of Environmental Protection to retain a rural-lands-protection easement for such surplused lands; requiring that all proceeds from the sale of such surplused lands be deposited in the Department of Agriculture and Consumer Services' Incidental Trust Fund for less than fee simple; requiring the Department of Environmental Protection to annually provide a report of such surplused lands to the Board of Trustees of the Internal Improvement Trust Fund; prohibiting certain lands from being surplused; amending s. 259.1053, F.S.; deleting provisions relating to the Babcock Ranch Advisory Group; amending s. 287.1351, F.S.; revising circumstances under which

a vendor is prohibited from submitting a bid, proposal, or reply to an agency or from entering into or renewing any contract to provide goods or services to an agency; amending s. 322.12, F.S.; providing penalties for an applicant for a commercial driver license who receives unauthorized assistance on certain portions of the examination; amending s. 322.36, F.S.; prohibiting a person from knowingly or willfully providing unauthorized assistance to an applicant for the examination required to hold a commercial driver license; repealing ss. 377.71, 377.711, and 377.712, F.S., relating to definitions and the Southern States Energy Compact, Florida as party to the Southern States Energy Compact, and Florida's participation in the Southern States Energy Board, respectively; amending s. 403.0855, F.S.; deleting a provision relating to legislative approval of certain rules adopted by the Department of Environmental Protection; revising requirements for permittees of biosolids land application sites; revising the date by which permits must comply with specified provisions; requiring local governments that do not transport biosolids outside of their respective county boundaries to comply with specified provisions by a specified date; providing construction; amending s. 482.071, F.S.; requiring certain persons applying for a pest control business license or renewal to provide the department with a certificate of insurance; specifying requirements for such

certificate of insurance; amending s. 482.161, F.S.; revising the severity of an administrative fine for violations of certain provisions; amending s. 482.165, F.S.; revising civil penalties; amending s. 489.105, F.S.; defining the terms "subcontractor" and "supplier"; creating s. 489.1295, F.S.; requiring licensed contractors to compensate subcontractors or suppliers for services, labor, or materials within a specified timeframe after receiving payment or in accordance with the terms of the contract for services, labor, or materials; providing an exception; providing disciplinary measures; amending s. 500.04, F.S.; revising the list of prohibited acts related to the prevention of fraud, harm, adulteration, misbranding, or false advertising in the preparation, production, manufacture, storage, or sale of food; repealing s. 500.81, F.S., relating to the Healthy Food Financing Initiative; amending s. 500.93, F.S.; making a technical change; amending s. 501.013, F.S.; authorizing the Department of Agriculture and Consumer Services to provide an exemption from certain health studio regulations; creating s. 501.062, F.S.; providing legislative intent; defining the terms "commercial solicitation" and "dwelling"; prohibiting a person from engaging in commercial solicitation under certain circumstances; specifying requirements for certain signage to be displayed on a property; providing penalties; amending s. 570.07, F.S.; authorizing the Department of Agriculture and Consumer

Services to reorganize departmental units upon the approval of the Commissioner of Agriculture; amending s. 570.822, F.S.; providing additional eligibility requirements for the Agriculture and Aquaculture Producers Emergency Recovery Loan Program; creating s. 570.832, F.S.; requiring the Florida Wildflower Foundation, Inc., in coordination with the Department of Agriculture and Consumer Services, to establish the Florida Native Seed Research and Marketing Program, subject to legislative appropriation; providing the purpose of the program; creating s. 570.846, F.S.; establishing the Florida Food Animal and Equine Veterinary Medicine Loan Repayment Program; providing the purpose of the program; defining terms; providing eligibility requirements for the program; authorizing the Department of Agriculture and Consumer Services to make loan principal repayments on behalf of eligible candidates up to a certain amount for a specified timeframe, subject to legislative appropriation; providing construction; authorizing the Department of Agriculture and Consumer Services to adopt rules; amending s. 570.85, F.S.; prohibiting a local government from requiring a property owner to obtain a rural event venue permit or license; amending s. 570.86, F.S.; defining the term “rural event venue”; amending s. 573.112, F.S.; renaming the Citrus Research and Development Foundation, Inc., as the Citrus Research and Field Trial Foundation, Inc.; establishing the Citrus Research and Field Trial

Foundation, Inc., as a direct-support organization of the Department of Agriculture and Consumer Services; revising provisions relating to membership; amending s. 581.031, F.S.; conforming a provision to changes made by the act; amending s. 583.01, F.S.; revising the definition of the term "dealer"; amending s. 590.02, F.S.; revising the Florida Forest Service's powers, authority, and duties; authorizing the Florida Forest Service to manage the Welaka Training Center; conforming provisions to changes made by the act; authorizing the Withlacoochee and Welaka Training Centers to assess fees for specified purposes as determined by the Florida Forest Service, regardless of where certain training occurs; renaming the Bonifay Forestry Station as the John Michael Mathis Forestry Station to honor the late John Michael Mathis; creating s. 595.421, F.S.; establishing the Farmers Feeding Florida Program for specified purposes; requiring Feeding Florida to take certain actions to implement the program; prohibiting the foods purchased by Feeding Florida through such program from reentering the wholesale, retail, or secondary market; prohibiting Feeding Florida from allowing a candidate for elective office to host a food distribution event during a specified timeframe; providing applicability; amending s. 597.004, F.S.; making a technical change; prohibiting the Department of Agriculture and Consumer Services from renewing a certificate of registration for a noncompliant facility unless certain

documentation is provided with the renewal application; prohibiting entities whose certificate of registration has been revoked from reapplying for a specified period of time; amending s. 597.010, F.S.; authorizing, rather than requiring, the periodic adjustment of the annual rental fee charged for certain leases; amending s. 599.012, F.S.; making technical changes; amending s. 601.13, F.S.; renaming the Citrus Research and Development Foundation, Inc., as the Citrus Research and Field Trial Foundation, Inc.; amending s. 616.001, F.S.; revising and deleting definitions relating to public fairs and expositions; amending s. 616.01, F.S.; revising application requirements for a proposed charter for an association to conduct a public fair or exposition; requiring the Department of Agriculture and Consumer Services to provide an applicant for a proposed charter with specified information upon the denial of a proposed charter; revising requirements for information that must be included in the proposed charter; amending s. 616.02, F.S.; limiting the number of incorporated state fair associations per county; providing construction; authorizing the Department of Agriculture and Consumer Services to waive certain requirements at the discretion of the commissioner; authorizing fair associations incorporated before a certain date to conduct their affairs; deleting provisions relating to requirements for a proposed charter; amending s. 616.03, F.S.; revising

requirements for the approval and recordation of the charter; amending s. 616.05, F.S.; revising the process by which a proposed charter amendment is incorporated into the original charter; amending s. 616.051, F.S.; revising the circumstances under which a circuit judge is authorized to dissolve an association and order the distribution of its remaining assets; requiring that such assets be distributed to certain counties; amending s. 616.07, F.S.; deleting provisions relating to distribution of public funds after the dissolution of an association; amending s. 616.101, F.S.; specifying the basis for annual public fair attendance records; requiring a fair association to review its charter every 5 years and submit an updated copy of the charter to the Department of Agriculture and Consumer Services; requiring a designated member of the association to make an attestation; amending s. 616.15, F.S.; making a technical change; revising the information that an applicant must submit to the Department of Agriculture and Consumer Services for the department to issue a permit for an association to conduct a fair; revising the timeframe within which the Department of Agriculture and Consumer Services is required to issue the permit upon the receipt of specified information; making technical changes; deleting obsolete provisions; amending s. 616.251, F.S.; exempting the Florida State Fair Authority from specified provisions; amending s. 624.4032, F.S.; revising the

definition of the term "nonprofit agricultural organization"; amending s. 843.085, F.S.; prohibiting a person from wearing or displaying an item that displays the words "concealed weapon permit" or "concealed weapon permitholder" with the intent to mislead another to believe that the person is authorized to wear or display such item; amending s. 934.02, F.S.; defining the term "signal jamming device"; creating s. 934.51, F.S.; prohibiting the possession, manufacture, sale, importation, distribution, or use of a signal jamming device; providing exceptions; providing criminal penalties; providing for the merger and transfer of the Citrus Research and Development Foundation, Inc., into the Citrus Research and Field Trial Foundation, Inc.; requiring the completion of the merger by a specified date; providing that the merger is subject to specified provisions; providing for the transfer of funds; providing for the transfer of any program, activity, duty, or function; establishing the Citrus Research and Field Trial Foundation, Inc., as the custodian of any property of the Citrus Research and Development Foundation, Inc.; amending s. 288.1175, F.S.; conforming cross-references; reenacting ss. 287.056(4) and 287.138(5), F.S., relating to disqualification for state term contract eligibility and contracting with entities of foreign countries of concern prohibited, respectively, to incorporate the amendment made to s. 287.1351, F.S., in references

thereto; reenacting s. 500.177(1), F.S., relating to penalties for dissemination of a false advertisement, to incorporate the amendment made to s. 500.04, F.S., in a reference thereto; reenacting s. 212.08(13), F.S., relating to taxation and specified exemptions, to incorporate the amendment made to s. 616.07, F.S., in a reference thereto; reenacting s. 616.185, F.S., relating to trespass upon grounds or facilities of a public fair, to incorporate the amendment made to s. 616.15, F.S., in a reference thereto; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Section 125.489, Florida Statutes, is created to read:

125.489 Preemption of restrictions on gasoline-powered farm equipment or gasoline-powered landscape equipment.—

(1) As used in this section, the term:

(a) "Gasoline-powered farm equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used on a farm or used to transport farm products.

(b) "Gasoline-powered landscape equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used to provide landscape management or maintenance or to move leaves, dirt, grass, or other debris off of sidewalks, driveways, lawns, or other surfaces.

(2) A county may not enact or enforce a resolution, an ordinance, a rule, a code, or a policy or take any action that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment and may not create differing standards for such equipment or distinguish such equipment from any electric or similar equipment in a retail, manufacturer, or distributor setting.

(3) This section does not prohibit or limit a county from encouraging the use of alternative farm or landscape equipment, such as battery-powered farm or landscape equipment.

Section 2. Present subsections (18) through (30) and (31) through (54) of section 163.3164, Florida Statutes, are redesignated as subsections (19) through (31) and (33) through (56), respectively, and new subsections (18) and (32) are added to that section, to read:

163.3164 Community Planning Act; definitions.—As used in this act:

(18) "Ecologically significant parcel" means a parcel of land located within the boundaries of a low-density municipality which is currently undeveloped and has been designated as either rural, conservation, agricultural, or greenspace as provided by a local government comprehensive plan developed pursuant to s. 163.3177.

(32) "Low-density municipality" means a municipality existing on or before January 1, 2025, which is less than 2,500 acres in total size and contains a population of 5,000 or fewer legal residents.

Section 3. Present subsection (7) of section 163.3202, Florida Statutes, is redesignated as subsection (8), and a new

subsection (7) is added to that section, to read:

163.3202 Land development regulations.—

(7)(a) Notwithstanding any ordinance to the contrary, an application for a development on an ecologically significant parcel in a low-density municipality may not be administratively approved without an attestation provided by the developer, under penalty of perjury, to the low-density municipality which states that the development will not exceed a maximum density of 1 residential unit per 20 acres.

(b) This subsection does not apply to applications for the construction of residential units on an ecologically significant parcel for the express purpose of providing housing for family members of the applicant. However, the applicant must provide an attestation, under penalty of perjury, to the low-density municipality which states that the residential units being constructed will be used for such express purpose before the administrative approval of an application for development.

(c) The density requirements provided in this subsection may be waived upon a resolution approved by a unanimous vote of the commission or council of the low-density municipality.

Section 4. Section 166.063, Florida Statutes, is created to read:

166.063 Preemption of restrictions on gasoline-powered farm equipment or gasoline-powered landscape equipment.—

(1) As used in this section, the term:

(a) "Gasoline-powered farm equipment" means a machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used on a farm or used to transport farm products.

(b) "Gasoline-powered landscape equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used to provide landscape management or maintenance or to move leaves, dirt, grass, or other debris off of sidewalks, driveways, lawns, or other surfaces.

(2) A municipality may not enact or enforce a resolution, an ordinance, a rule, a code, or a policy or take any action that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment and may not create differing standards for such equipment or distinguish such equipment from any electric or similar equipment in a retail, manufacturer, or distributor setting.

(3) This section does not prohibit or limit a municipality from encouraging the use of alternative farm or landscape equipment, such as battery-powered farm or landscape equipment.

Section 5. Paragraph (d) of subsection (2) of section 212.055, Florida Statutes, is amended to read:

212.055 Discretionary sales surtaxes; legislative intent; authorization and use of proceeds.—It is the legislative intent that any authorization for imposition of a discretionary sales surtax shall be published in the Florida Statutes as a subsection of this section, irrespective of the duration of the levy. Each enactment shall specify the types of counties authorized to levy; the rate or rates which may be imposed; the maximum length of time the surtax may be imposed, if any; the procedure which must be followed to secure voter approval, if required; the purpose for which the proceeds may be expended; and such other requirements as the Legislature may provide.

Taxable transactions and administrative procedures shall be as provided in s. 212.054.

(2) LOCAL GOVERNMENT INFRASTRUCTURE SURTAX.—

(d) The proceeds of the surtax authorized by this subsection and any accrued interest shall be expended by the school district, within the county and municipalities within the county, or, in the case of a negotiated joint county agreement, within another county, to finance, plan, and construct infrastructure; to acquire any interest in land for public recreation, conservation, or protection of natural resources or to prevent or satisfy private property rights claims resulting from limitations imposed by the designation of an area of critical state concern; to provide loans, grants, or rebates to residential or commercial property owners who make energy efficiency improvements to their residential or commercial property, if a local government ordinance authorizing such use is approved by referendum; or to finance the closure of county-owned or municipally owned solid waste landfills that have been closed or are required to be closed by order of the Department of Environmental Protection. Any use of the proceeds or interest for purposes of landfill closure before July 1, 1993, is ratified. The proceeds and any interest may not be used for the operational expenses of infrastructure, except that a county that has a population of fewer than 75,000 and that is required to close a landfill may use the proceeds or interest for long-term maintenance costs associated with landfill closure. Counties, as defined in s. 125.011, and charter counties may, in addition, use the proceeds or interest to retire or service indebtedness incurred for bonds issued before July 1, 1987, for

infrastructure purposes, and for bonds subsequently issued to refund such bonds. Any use of the proceeds or interest for purposes of retiring or servicing indebtedness incurred for refunding bonds before July 1, 1999, is ratified.

1. For the purposes of this paragraph, the term "infrastructure" means:

a. Any fixed capital expenditure or fixed capital outlay associated with the construction, reconstruction, or improvement of public facilities that have a life expectancy of 5 or more years, any related land acquisition, land improvement, design, and engineering costs, and all other professional and related costs required to bring the public facilities into service. For purposes of this sub-subparagraph, the term "public facilities" has the same meaning ~~means facilities~~ as ~~defined~~ in s. 163.3164(43) ~~s. 163.3164(41)~~, s. 163.3221(13), or s. 189.012(5), and includes facilities that are necessary to carry out governmental purposes, including, but not limited to, fire stations, general governmental office buildings, and animal shelters, regardless of whether the facilities are owned by the local taxing authority or another governmental entity.

b. A fire department vehicle, an emergency medical service vehicle, a sheriff's office vehicle, a police department vehicle, or any other vehicle, and the equipment necessary to outfit the vehicle for its official use or equipment that has a life expectancy of at least 5 years.

c. Any expenditure for the construction, lease, or maintenance of, or provision of utilities or security for, facilities, as defined in s. 29.008.

d. Any fixed capital expenditure or fixed capital outlay

associated with the improvement of private facilities that have a life expectancy of 5 or more years and that the owner agrees to make available for use on a temporary basis as needed by a local government as a public emergency shelter or a staging area for emergency response equipment during an emergency officially declared by the state or by the local government under s. 252.38. Such improvements are limited to those necessary to comply with current standards for public emergency evacuation shelters. The owner must enter into a written contract with the local government providing the improvement funding to make the private facility available to the public for purposes of emergency shelter at no cost to the local government for a minimum of 10 years after completion of the improvement, with the provision that the obligation will transfer to any subsequent owner until the end of the minimum period.

e. Any land acquisition expenditure for a residential housing project in which at least 30 percent of the units are affordable to individuals or families whose total annual household income does not exceed 120 percent of the area median income adjusted for household size, if the land is owned by a local government or by a special district that enters into a written agreement with the local government to provide such housing. The local government or special district may enter into a ground lease with a public or private person or entity for nominal or other consideration for the construction of the residential housing project on land acquired pursuant to this sub-subparagraph.

f. Instructional technology used solely in a school district's classrooms. As used in this sub-subparagraph, the

term "instructional technology" means an interactive device that assists a teacher in instructing a class or a group of students and includes the necessary hardware and software to operate the interactive device. The term also includes support systems in which an interactive device may mount and is not required to be affixed to the facilities.

2. For the purposes of this paragraph, the term "energy efficiency improvement" means any energy conservation and efficiency improvement that reduces consumption through conservation or a more efficient use of electricity, natural gas, propane, or other forms of energy on the property, including, but not limited to, air sealing; installation of insulation; installation of energy-efficient heating, cooling, or ventilation systems; installation of solar panels; building modifications to increase the use of daylight or shade; replacement of windows; installation of energy controls or energy recovery systems; installation of electric vehicle charging equipment; installation of systems for natural gas fuel as defined in s. 206.9951; and installation of efficient lighting equipment.

3. Notwithstanding any other provision of this subsection, a local government infrastructure surtax imposed or extended after July 1, 1998, may allocate up to 15 percent of the surtax proceeds for deposit into a trust fund within the county's accounts created for the purpose of funding economic development projects having a general public purpose of improving local economies, including the funding of operational costs and incentives related to economic development. The ballot statement must indicate the intention to make an allocation under the

authority of this subparagraph.

4. Surtax revenues that are shared with eligible charter schools pursuant to paragraph (c) shall be allocated among such schools based on each school's proportionate share of total school district capital outlay full-time equivalent enrollment as adopted by the education estimating conference established in s. 216.136. Surtax revenues must be expended by the charter school in a manner consistent with the allowable uses provided in s. 1013.62(4). All revenues and expenditures shall be accounted for in a charter school's monthly or quarterly financial statement pursuant to s. 1002.33(9). If a school's charter is not renewed or is terminated and the school is dissolved under the provisions of law under which the school was organized, any unencumbered funds received under this paragraph shall revert to the sponsor.

Section 6. Present subsection (19) of section 253.0341, Florida Statutes, is redesignated as subsection (21), and new subsection (19) and subsection (20) are added to that section, to read:

253.0341 Surplus of state-owned lands.—

(19) The Acquisition and Restoration Council shall determine whether any lands surplused by a local governmental entity, as defined in s. 218.72, on or after January 1, 2024, are suitable for bona fide agricultural purposes, as defined in s. 193.461(3)(b). A local governmental entity may not transfer future development rights for any surplused lands determined to be suitable for bona fide agricultural purposes on or after January 1, 2024.

(20) The Department of Environmental Protection, in

coordination with the Department of Agriculture and Consumer Services, shall determine whether any state-owned conservation lands acquired on or after January 1, 2024, are suitable for bona fide agricultural purposes, as defined in s. 193.461(3)(b).

(a) Notwithstanding any other law or rule, the Department of Environmental Protection may surplus state-owned conservation lands acquired on or after January 1, 2024, determined to be suitable for bona fide agricultural purposes.

(b) For all state-owned conservation lands determined to be suitable for bona fide agricultural production and surplused by the Department of Environmental Protection, the department shall retain a rural-lands-protection easement pursuant to s. 570.71(3). All proceeds from the sale of such surplused lands must be deposited into the Incidental Trust Fund within the Department of Agriculture and Consumer Services for less than fee simple land acquisition pursuant to ss. 570.71 and 570.715.

(c) By January 1, 2027, and each January 1 thereafter, the Department of Environmental Protection shall provide a report of state-owned conservation lands surplused pursuant to this subsection to the Board of Trustees of the Internal Improvement Trust Fund.

(d) Designated state forest lands, state park lands, wildlife management areas, or lands within the boundaries of the federally authorized and approved Comprehensive Everglades Restoration Plan may not be surplused pursuant to this subsection.

Section 7. Section 259.1053, Florida Statutes, is amended to read:

259.1053 Babcock Ranch Preserve~~; Babcock Ranch Advisory~~

~~Group~~.—

(1) SHORT TITLE.—This section may be cited as the "Babcock Ranch Preserve Act."

(2) DEFINITIONS.—As used in this section, the term:

(a) "Babcock Ranch Preserve" and "preserve" mean the lands and facilities acquired in the purchase of the Babcock Crescent B Ranch, as provided in s. 259.1052.

(b) "Commission" means the Fish and Wildlife Conservation Commission.

(c) "Commissioner" means the Commissioner of Agriculture.

(d) "Department" means the Department of Agriculture and Consumer Services.

(e) "Executive director" means the Executive Director of the Fish and Wildlife Conservation Commission.

(f) "Financially self-sustaining" means having management and operation expenditures not more than the revenues collected from fees and other receipts for resource use and development and from interest and invested funds.

(g) "Florida Forest Service" means the Florida Forest Service of the Department of Agriculture and Consumer Services.

(h) "Multiple use" means the management of all of the renewable surface resources of the Babcock Ranch Preserve to best meet the needs of the public, including the use of the land for some or all of the renewable surface resources or related services over areas large enough to allow for periodic adjustments in use to conform to the changing needs and conditions of the preserve while recognizing that a portion of the land will be used for some of the renewable surface resources available on that land. The goal of multiple use is

the harmonious and coordinated management of the renewable surface resources without impairing the productivity of the land and considering the relative value of the renewable surface resources, and not necessarily a combination of uses to provide the greatest monetary return or the greatest unit output.

(i) "Sustained yield of the renewable surface resources" means the achievement and maintenance of a high level of annual or regular periodic output of the various renewable surface resources of the preserve without impairing the productivity of the land.

(3) CREATION OF BABCOCK RANCH PRESERVE.—

(a) Upon the date of acquisition of the Babcock Crescent B Ranch, there is created the Babcock Ranch Preserve, which shall be managed in accordance with the purposes and requirements of this section.

(b) The preserve is established to protect and preserve the environmental, agricultural, scientific, scenic, geologic, watershed, fish, wildlife, historic, cultural, and recreational values of the preserve, and to provide for the multiple use and sustained yield of the renewable surface resources within the preserve consistent with this section.

(c) This section does not preclude the use of common varieties of mineral materials such as sand, stone, and gravel for construction and maintenance of roads and facilities within the preserve.

(d) This section does not affect the constitutional responsibilities of the commission in the exercise of its regulatory and executive power with respect to wild animal life and freshwater aquatic life, including the regulation of

hunting, fishing, and trapping within the preserve.

(e) This section does not interfere with or prevent the implementation of agricultural practices authorized by the agricultural land use designations established in the local comprehensive plans of either Charlotte County or Lee County as those plans apply to the Babcock Ranch Preserve.

(f) This section does not preclude the maintenance and use of roads and trails or the relocation of roads in existence on the effective date of this section, or the construction, maintenance, and use of new trails, or any motorized access necessary for the administration of the land contained within the preserve, including motorized access necessary for emergencies involving the health or safety of persons within the preserve.

~~(4) BABCOCK RANCH ADVISORY GROUP.~~

~~(a) The purpose of the Babcock Ranch Advisory Group is to assist the department by providing guidance and advice concerning the management and stewardship of the Babcock Ranch Preserve.~~

~~(b) The Babcock Ranch Advisory Group shall be comprised of nine members appointed to 5-year terms. Based on recommendations from the Governor and Cabinet, the commission, and the governing boards of Charlotte County and Lee County, the commissioner shall appoint members as follows:~~

~~1. One member with experience in sustainable management of forest lands for commodity purposes.~~

~~2. One member with experience in financial management, budget and program analysis, and small business operations.~~

~~3. One member with experience in management of game and~~

~~nongame wildlife and fish populations, including hunting, fishing, and other recreational activities.~~

~~4. One member with experience in domesticated livestock management, production, and marketing, including range management and livestock business management.~~

~~5. One member with experience in agriculture operations or forestry management.~~

~~6. One member with experience in hunting, fishing, nongame species management, or wildlife habitat management, restoration, and conservation.~~

~~7. One member with experience in public outreach and education.~~

~~8. One member who is a resident of Lee County, to be designated by the Board of County Commissioners of Lee County.~~

~~9. One member who is a resident of Charlotte County, to be designated by the Board of County Commissioners of Charlotte County.~~

~~Vacancies will be filled in the same manner in which the original appointment was made. A member appointed to fill a vacancy shall serve for the remainder of that term.~~

~~(c) Members of the Babcock Ranch Advisory Group shall:~~

~~1. Elect a chair and vice chair from among the group members.~~

~~2. Meet regularly as determined by the chair.~~

~~3. Serve without compensation but shall receive reimbursement for travel and per diem expenses as provided in s. 112.061.~~

(4)~~(5)~~ MANAGEMENT OF PRESERVE; FEES.—

(a) The department shall assume all authority provided by this section to manage and operate the preserve as a working ranch upon the termination or expiration of the management agreement attached as Exhibit "E" to that certain agreement for sale and purchase approved by the Board of Trustees of the Internal Improvement Trust Fund on November 22, 2005, and by Lee County on November 20, 2005.

(b) Upon assuming management and operation of the preserve, the department shall:

1. Manage and operate the preserve and the uses thereof, including, but not limited to, the activities necessary to administer and operate the preserve as a working ranch; the activities necessary for the preservation and development of the land and renewable surface resources of the preserve; the activities necessary for interpretation of the history of the preserve on behalf of the public; the activities necessary for the management, public use, and occupancy of facilities and lands within the preserve; and the maintenance, rehabilitation, repair, and improvement of property within the preserve.

2. Develop programs and activities relating to the management of the preserve as a working ranch.

3. Establish procedures for entering into lease agreements and other agreements for the use and occupancy of the facilities of the preserve. The procedures shall ensure reasonable competition and set guidelines for determining reasonable fees, terms, and conditions for such agreements.

4. Assess reasonable fees for admission to, use of, and occupancy of the preserve to offset costs of operating the preserve as a working ranch. These fees are independent of fees

assessed by the commission for the privilege of hunting, fishing, or pursuing outdoor recreational activities within the preserve, and shall be deposited into the Incidental Trust Fund of the Florida Forest Service, subject to appropriation by the Legislature.

(c) The commission, in cooperation with the department, shall:

1. Establish and implement public hunting and other fish and wildlife management activities. Tier I and Tier II public hunting opportunities shall be provided consistent with the management plan and the recreation master plan. Tier I public hunting shall provide hunting opportunities similar to those offered on wildlife management areas with an emphasis on youth and family-oriented hunts. Tier II public hunting shall be provided specifically by fee-based permitting to ensure compatibility with livestock grazing and other essential agricultural operations on the preserve.

2. Establish and administer permit fees for Tier II public hunting to capitalize on the value of hunting on portions of the preserve and to help ensure the preserve is financially self-sufficient. The fees shall be deposited into the State Game Trust Fund of the Fish and Wildlife Conservation Commission to be used to offset the costs of providing public hunting and to support fish and wildlife management and other land management activities on the preserve.

(d) The Board of Trustees of the Internal Improvement Trust Fund or its designated agent may:

1. Negotiate directly with and enter into such agreements, leases, contracts, and other arrangements with any person, firm,

association, organization, corporation, or governmental entity, including entities of federal, state, and local governments, as are necessary and appropriate to carry out the purposes and activities authorized by this section.

2. Grant privileges, leases, concessions, and permits for the use of land for the accommodation of visitors to the preserve, provided no natural curiosities or objects of interest shall be granted, leased, or rented on such terms as shall deny or interfere with free access to them by the public. Such grants, leases, and permits may be made and given without advertisement or securing competitive bids. Such grants, leases, or permits may not be assigned or transferred by any grantee without consent of the Board of Trustees of the Internal Improvement Trust Fund or its designated agent.

(5)~~(6)~~ DISSOLUTION OF BABCOCK RANCH, INC.—Upon dissolution of the Babcock Ranch, Inc., all statutory powers, duties, functions, records, personnel, property, and unexpended balances of appropriations, allocations, and other funds of the corporation shall be transferred to the Department of Agriculture and Consumer Services unless otherwise provided by law. Any cash balances of funds shall revert to the Incidental Trust Fund of the Florida Forest Service.

Section 8. Paragraph (a) of subsection (2) of section 287.1351, Florida Statutes, is amended, and subsection (3) of that section is republished, to read:

287.1351 Suspended vendors; state contracts.—

(2)(a) A vendor that is in default on any contract with an agency, has failed to timely compensate its subcontractors or suppliers, or has otherwise repeatedly demonstrated a recent

inability to fulfill the terms and conditions of previous state contracts or to adequately perform its duties under those contracts may not submit a bid, proposal, or reply to an agency or enter into or renew a contract to provide any goods or services to an agency after its placement, pursuant to this section, on the suspended vendor list.

(3) An agency shall notify the department of any vendor that has met the grounds for suspension described in paragraph (2)(a). The agency must provide documentation to the department evidencing the vendor's default or other grounds for suspension. The department shall review the documentation provided and determine whether good cause exists to remove the vendor from the vendor list and to place it on the suspended vendor list. If good cause exists, the department must notify the vendor in writing of its intent to remove the vendor from the vendor list and of the vendor's right to an administrative hearing and the applicable procedures and time requirements for any such hearing. If the vendor does not request an administrative hearing, the department must enter a final order removing the vendor from the vendor list. A vendor may not be removed from the vendor list without receiving an individual notice of intent from the department.

Section 9. Paragraph (c) is added to subsection (4) of section 322.12, Florida Statutes, to read:

322.12 Examination of applicants.—

(4) The examination for an applicant for a commercial driver license shall include a test of the applicant's eyesight given by a driver license examiner designated by the department or by a licensed ophthalmologist, optometrist, or physician and

a test of the applicant's hearing given by a driver license examiner or a licensed physician. The examination shall also include a test of the applicant's ability to read and understand highway signs regulating, warning, and directing traffic; his or her knowledge of the traffic laws of this state pertaining to the class of motor vehicle which he or she is applying to be licensed to operate, including laws regulating driving under the influence of alcohol or controlled substances, driving with an unlawful blood-alcohol level, and driving while intoxicated; his or her knowledge of the effects of alcohol and controlled substances and the dangers of driving a motor vehicle after having consumed alcohol or controlled substances; and his or her knowledge of any special skills, requirements, or precautions necessary for the safe operation of the class of vehicle which he or she is applying to be licensed to operate. In addition, the examination shall include an actual demonstration of the applicant's ability to exercise ordinary and reasonable control in the safe operation of a motor vehicle or combination of vehicles of the type covered by the license classification which the applicant is seeking, including an examination of the applicant's ability to perform an inspection of his or her vehicle.

(c) An applicant for a commercial driver license who receives unauthorized assistance from another person in completing the portion of the examination which tests the applicant's ability to read and understand highway signs regulating, warning, and directing traffic or his or her knowledge of the traffic laws of this state pertaining to the class of motor vehicle for which he or she is applying to be

licensed to operate, including laws regulating driving under the influence of alcohol or controlled substances, driving with an unlawful blood-alcohol level, and driving while intoxicated, commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

Section 10. Section 322.36, Florida Statutes, is amended to read:

322.36 Permitting unauthorized operator to drive.—

(1) A person may not authorize or knowingly permit a motor vehicle owned by him or her or under his or her dominion or control to be operated upon any highway or public street except by a person who is duly authorized to operate a motor vehicle under this chapter.

(2) A person may not knowingly or willfully provide unauthorized assistance to an applicant for the examination required to hold a commercial driver license pursuant to s. 322.12(4).

(3) A ~~Any~~ person who violates this section commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083. If a person violates this section by knowingly loaning a vehicle to a person whose driver license is suspended and if that vehicle is involved in an accident resulting in bodily injury or death, the driver license of the person violating this section must ~~shall~~ be suspended for 1 year.

Section 11. Section 377.71, Florida Statutes, is repealed.

Section 12. Section 377.711, Florida Statutes, is repealed.

Section 13. Section 377.712, Florida Statutes, is repealed.

Section 14. Present paragraphs (a) and (b) of subsection

(3) of section 403.0855, Florida Statutes, are redesignated as paragraphs (b) and (c), respectively, a new paragraph (a) is added to that subsection, and subsections (2) and (4) of that section are amended, to read:

403.0855 Biosolids management.—

(2) The department shall adopt rules for biosolids management. ~~Rules adopted by the department pursuant to this section may not take effect until ratified by the Legislature.~~

(3) For a new land application site permit or a permit renewal issued after July 1, 2020, the permittee of a biosolids land application site shall:

(a) Ensure that only Class AA biosolids are applied to the soil.

(4)(a) All permits shall comply with the requirements of paragraph (3)(a) ~~subsection (3)~~ by July 1, 2028 ~~2022~~.

(b) Local governments that do not transport biosolids for land application outside of their respective county boundaries shall comply with the requirements of paragraph (3)(a) by July 1, 2031. This paragraph may not be construed to prohibit the transportation of Class B biosolids by a local government outside of its boundaries to a Class AA biosolids treatment facility or waste-to-energy facility located within the boundaries of another local government.

Section 15. Present subsection (5) of section 482.071, Florida Statutes, is redesignated as subsection (6), and a new subsection (5) is added to that section, to read:

482.071 Licenses.—

(5) Each person applying for a pest control business license or renewal thereof who will offer and perform

fumigations as a part of his or her regular business operations must furnish to the department a certificate of insurance that meets the requirement for minimum financial responsibility for bodily injury and property damage, consisting of:

(a) Bodily injury coverage of $1 million per person and $2 million per occurrence; and property damage coverage of $1 million per occurrence and $2 million in the aggregate; or

(b) Combined single-limit coverage of $2 million in the aggregate.

Section 16. Subsection (7) of section 482.161, Florida Statutes, is amended to read:

482.161 Disciplinary grounds and actions; reinstatement.—

(7) The department, pursuant to chapter 120, in addition to or in lieu of any other remedy provided by state or local law, may impose an administrative fine in the Class III ~~II~~ category pursuant to s. 570.971 for a violation of this chapter or of the rules adopted pursuant to this chapter. In determining the amount of fine to be levied for a violation, the following factors shall be considered:

(a) The severity of the violation, including the probability that the death, or serious harm to the health or safety, of any person will result or has resulted; the severity of the actual or potential harm; and the extent to which this chapter or the rules adopted pursuant to this chapter were violated;

(b) Any actions taken by the licensee or certified operator in charge, or limited certificateholder, to correct the violation or to remedy complaints;

(c) Any previous violations of this chapter or of the rules

adopted pursuant to this chapter; and

(d) The cost to the department of investigating the violation.

Section 17. Subsections (3) and (5) of section 482.165, Florida Statutes, are amended to read:

482.165 Unlicensed practice of pest control; cease and desist order; injunction; civil suit and penalty.—

(3) In addition to or in lieu of any remedy provided under subsection (2), the department may institute a civil suit in circuit court to recover a civil penalty for any violation for which the department may issue a notice to cease and desist under subsection (2). The civil penalty shall be in the Class III ~~II~~ category pursuant to s. 570.971 for each offense. The court may also award to the prevailing party court costs and reasonable attorney fees.

(5) In addition to or in lieu of any remedy provided under subsections (2) and (3), the department may, even in the case of a first offense, impose a fine not less than twice the cost of a pest control business license, but not more than a fine in the Class III ~~II~~ category pursuant to s. 570.971, upon a determination by the department that a person is in violation of subsection (1). For the purposes of this subsection, the lapse of a previously issued license for a period of less than 1 year is not considered a violation.

Section 18. Subsections (20) and (21) are added to section 489.105, Florida Statutes, to read:

489.105 Definitions.—As used in this part:

(20) "Subcontractor" has the same meaning as in s. 558.002.

(21) "Supplier" has the same meaning as in s. 558.002.

Section 19. Section 489.1295, Florida Statutes, is created to read:

489.1295 Prohibition against nonpayment.—

(1) A licensed contractor must compensate a subcontractor or supplier, unless there is a bona fide dispute regarding the amount due, if any, for services, labor, or materials:

(a) Within 45 days after receiving payment for the services performed or materials supplied by the subcontractor or supplier; or

(b) In accordance with the terms of the contract for such services, labor, or materials.

(2) A licensed contractor who knowingly or willfully violates this section is subject to disciplinary proceedings as provided in s. 489.129.

Section 20. Subsection (6) of section 500.04, Florida Statutes, is amended to read:

500.04 Prohibited acts.—The following acts and the causing thereof within the state are prohibited:

(6) The obstruction of or refusal to permit entry or inspection, or to permit the taking of a sample, as authorized by s. 500.147.

Section 21. Section 500.81, Florida Statutes, is repealed.

Section 22. Subsection (5) of section 500.93, Florida Statutes, is amended to read:

500.93 Mislabeling of plant-based products as milk, meat, or poultry.—

(5) The Department of Agriculture and Consumer Services shall notify the Division of Law Revision upon the enactment into law by any 11 of the group of 14 states composed of

Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia of the mandatory labeling requirements pursuant to paragraphs (2)(a), (3)(a), and (4)(a) ~~subsections (2) and (3)~~.

Section 23. Section 501.013, Florida Statutes, is amended to read:

501.013 Health studios; exemptions.—

(1) The following businesses or activities may be declared exempt from ~~the provisions of~~ ss. 501.012-501.019 upon the filing of an affidavit with the department establishing that the stated qualifications are met:

(a) ~~(1)~~ A bona fide nonprofit organization which has been granted tax-exempt status by the Internal Revenue Service.

(b) ~~(2)~~ A gymnastics school which engages only in instruction and training and in which exercise is only incidental to such instruction and training.

(c) ~~(3)~~ A golf, tennis, or racquetball club in which sports play is the only activity offered by the club. If the facility offers the use of physical exercise equipment, this exemption shall not apply.

(d) ~~(4)~~ A program or facility which is offered and used solely for the purpose of dance, aerobic exercise, or martial arts, and which utilizes no physical exercise equipment.

(e) ~~(5)~~ A country club that has as its primary function the provision of a social life and recreational amenities to its members, and for which a program of physical exercise is merely incidental to membership. As used in this paragraph ~~subsection~~, the term “country club” means a facility that offers its members

a variety of services that may include, but need not be limited to, social activities; dining, banquet, catering, and lounge facilities; swimming; yachting; golf; tennis; card games such as bridge and canasta; and special programs for members' children. Upon the filing of an affidavit with the department establishing that the stated qualifications of this paragraph ~~subsection~~ were met before July 1, 1997, this paragraph ~~subsection~~ will apply retroactively to the date that the country club met these qualifications.

(f)~~(6)~~ A program or facility that is offered by an organization for the exclusive use of its employees and their family members.

(2) In addition to the businesses and activities listed in subsection (1), the department may exempt any other business or activity not in existence as of July 1, 2026, from ss. 501.012-501.019.

Section 24. Section 501.062, Florida Statutes, is created to read:

501.062 Unauthorized commercial solicitation; legislative intent; definitions; prohibited acts; penalties.—

(1) LEGISLATIVE INTENT.—It is the intent of the Legislature to protect, preserve, and promote the safety, welfare, and peace of the citizens of this state by adopting measures to reduce the threat to private property rights, including the right to exclude and to be free from trespass of unauthorized commercial solicitation on private property when noticed by the property owner. It is the intent of this section to protect such private property rights by creating a uniform standard for notifying individuals or groups of individuals that commercial

solicitation is prohibited on private property.

(2) DEFINITIONS.—As used in this section, the term:

(a) "Commercial solicitation" means the act of attempting to sell goods or services, or to raise funds for a commercial purpose, through direct or indirect contact with individuals, including, but not limited to, using words, body gestures, or signs, on behalf of a business or commercial entity.

(b) "Dwelling" has the same meaning as in s. 810.011(2).

(3) PROHIBITED ACTS.—A person may not engage in commercial solicitation on any dwelling that clearly and prominently displays a sign that is no less than 8.5 by 11 inches, is visible to any person approaching the dwelling, and clearly displays a statement which identifies the dwelling as private property on which commercial solicitation is prohibited, in substantially the following manner with letters at least 1 inch in height:

THIS DWELLING IS DESIGNATED PRIVATE PROPERTY. NO COMMERCIAL SOLICITATION IS PERMITTED PURSUANT TO SECTION 501.062, FLORIDA STATUTES.

(4) PENALTIES.—A person who violates subsection (3) commits a noncriminal violation, punishable as provided in s. 775.083. A person who commits a second or subsequent violation commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

Section 25. Subsection (50) is added to section 570.07, Florida Statutes, to read:

570.07 Department of Agriculture and Consumer Services;

functions, powers, and duties.—The department shall have and exercise the following functions, powers, and duties:

(50) Notwithstanding s. 20.04(7), to reorganize departmental units upon the approval of the commissioner.

Section 26. Paragraph (c) is added to subsection (3) of section 570.822, Florida Statutes, to read:

570.822 Agriculture and Aquaculture Producers Emergency Recovery Loan Program.—

(3) ELIGIBLE APPLICANTS.—To be eligible for the program, an applicant must:

(c) Be a United States citizen and a legal resident of this state before or on the date of the declared emergency. If the applicant is an entity as defined in s. 605.0102, the entity must be wholly owned and operated in the United States and possess an active certificate of status issued by the Department of State pursuant to chapter 605.

Section 27. Section 570.832, Florida Statutes, is created to read:

570.832 Florida Native Seed Research and Marketing Program.—The Florida Wildflower Foundation, Inc., in coordination with the department, shall, subject to appropriation, establish the Florida Native Seed Research and Marketing Program to conduct research designed to expand the availability and uses of native seeds and strengthen the market position of this state's native seed industry through marketing campaigns and promotions in this state and across the nation.

Section 28. Section 570.846, Florida Statutes, is created to read:

570.846 Florida Food Animal and Equine Veterinary Medicine

Loan Repayment Program.—

(1) PURPOSE.—To encourage specialized and qualified veterinary professionals to practice in this state, to retain the employment of such professionals in this state, and to promote the care and treatment of food animals and equine animals, there is established the Florida Food Animal and Equine Veterinary Medicine Loan Repayment Program. The purpose of the program is to authorize the department to make payments that offset loans incurred, for up to three new eligible candidates annually, for studies leading to a veterinary degree with a specialization in food animal or equine veterinary medicine.

(2) DEFINITIONS.—As used in this section, the term:

(a) "Equine" means a species of animal belonging to the taxonomic family *equidae*, which includes horses and donkeys.

(b) "Food animal" means a species of animal raised for the human food supply. Food animals include cattle, swine, sheep, goat, poultry, aquaculture, and apiary species.

(c) "Food animal and equine animal veterinary medicine" means a veterinary medical practice that encompasses medical care, disease prevention, and consultation on the feeding, housing, and overall flock, herd, or equine health management.

(d) "Food animal or equine veterinarian" means a veterinarian working in food and equine animal veterinary medicine who focuses on the management and health of such animals and who spends a minimum of 20 hours per week on food animal species or equine animal species care and treatment.

(3) ELIGIBILITY.—To be eligible for the program, a candidate must have graduated from an American Veterinary Medical Association-accredited college of veterinary medicine,

have received a Florida veterinary medical license, have obtained a Category II Accreditation from the United States Department of Agriculture, and be a practicing food animal or equine animal veterinarian in this state.

(4) FUNDING.—Subject to legislative appropriation, the department may make loan principal repayments of up to $25,000 per eligible candidate per year. Loan principal repayments may be made on behalf of each eligible candidate each year for up to 5 years. The department may select up to three new eligible candidates each year. All repayments are contingent upon continued proof of employment in this state as a practicing food animal or equine animal veterinarian.

(5) DUPLICATION OF FINANCIAL ASSISTANCE.—An eligible candidate receiving financial assistance from the federal veterinary medicine loan repayment program as established in 7 U.S.C. part 3151a is ineligible to receive financial assistance from the program under this section.

(6) RULEMAKING.—The department may adopt any rule necessary for the administration of the program.

Section 29. Subsection (1) of section 570.85, Florida Statutes, is amended to read:

570.85 Agritourism.—

(1) It is the intent of the Legislature to promote agritourism as a way to support bona fide agricultural production by providing a stream of revenue and by educating the general public about the agricultural industry. It is also the intent of the Legislature to eliminate duplication of regulatory authority over agritourism as expressed in this section. Except as otherwise provided for in this section, and notwithstanding

any other law, a local government may not adopt or enforce a local ordinance, regulation, rule, or policy that prohibits, restricts, regulates, or otherwise limits an agritourism activity on land classified as agricultural land under s. 193.461, and may not require a property owner to obtain a rural event venue permit or license. This subsection does not limit the powers and duties of a local government to address substantial offsite impacts of agritourism activities or an emergency as provided in chapter 252.

Section 30. Subsection (6) is added to section 570.86, Florida Statutes, to read:

570.86 Definitions.—As used in ss. 570.85-570.89, the term:

(6) "Rural event venue" means a venue located on property classified as agricultural pursuant to s. 193.461 and used for special functions, such as weddings, receptions, corporate meetings, or similar gatherings.

Section 31. Subsection (7) of section 573.112, Florida Statutes, is amended to read:

573.112 Advisory council.—

(7) Notwithstanding any provision of this section, the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., a direct-support organization of the Department of Agriculture and Consumer Services ~~University of Florida~~ established pursuant to s. 570.691 ~~s. 1004.28~~, shall serve as the advisory council for a citrus research marketing order, provide the department with advice on administering the order, and, in accordance with the order, conduct citrus research and perform other duties assigned by the department. Notwithstanding s. 570.691 ~~s. 1004.28(3)~~ or any provision of this section, the foundation's board of

directors shall be composed of the Florida State Plant Health Inspection Service Director and, appointed by the Commissioner of Agriculture, 7 members who are ~~13 members, including 10~~ citrus growers, ~~2 representatives of the university's Institute of Food and Agricultural Sciences,~~ and 1 member who is a Florida citrus nursery representative. Members of the board of directors shall serve without compensation but ~~appointed by the Commissioner of Agriculture, who~~ are each entitled to reimbursement from the foundation for per diem and travel expenses as provided in s. 112.061.

Section 32. Subsection (32) of section 581.031, Florida Statutes, is amended to read:

581.031 Department; powers and duties.—The department has the following powers and duties:

(32) To conduct or cause to be conducted research projects, including, but not limited to, citrus canker and citrus greening, which are recommended by the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., within the limits of appropriations made specifically for such purpose.

Section 33. Subsection (4) of section 583.01, Florida Statutes, is amended to read:

583.01 Definitions.—For the purpose of this chapter, unless elsewhere indicated, the term:

(4) "Dealer" means a person, firm, or corporation, including a producer, processor, retailer, or wholesaler, that sells, offers for sale, or holds for the purpose of sale in this state 30 dozen or more eggs or its equivalent in any one week, or more than 20,000 ~~384~~ dressed birds annually ~~in any one week~~.

Section 34. Section 590.02, Florida Statutes, is amended to

read:

590.02 Florida Forest Service; powers, authority, and duties; liability; building structures; Withlacoochee and Welaka Training Centers ~~Center~~.—

(1) The Florida Forest Service has the following powers, authority, and duties to:

(a) Enforce the provisions of this chapter;

(b) Prevent, detect, and suppress wildfires wherever they may occur on public or private land in this state and do all things necessary in the exercise of such powers, authority, and duties;

(c) Provide firefighting crews, who shall be under the control and direction of the Florida Forest Service and its designated agents;

(d) Appoint center managers, forest area supervisors, forestry program administrators, a forest protection bureau chief, a forest protection assistant bureau chief, a field operations bureau chief, deputy chiefs of field operations, district managers, forest operations administrators, senior forest rangers, investigators, forest rangers, firefighter rotorcraft pilots, and other employees who may, at the Florida Forest Service's discretion, be certified as forestry firefighters pursuant to s. 633.408(8). Other law notwithstanding, center managers, district managers, forest protection assistant bureau chief, and deputy chiefs of field operations have Selected Exempt Service status in the state personnel designation;

(e) Develop a training curriculum for wildland firefighters which must contain a minimum of 40 hours of structural

firefighter training, a minimum of 40 hours of emergency medical training, and a minimum of 376 hours of wildfire training;

(f) Pay the cost of the initial commercial driver license examination fee, and renewal for those employees whose position requires them to operate equipment requiring a license. This paragraph is intended to be an authorization to the department to pay such costs, not an obligation;

(g) Provide fire management services and emergency response assistance and set and charge reasonable fees for performance of those services. Moneys collected from such fees shall be deposited into the Incidental Trust Fund of the Florida Forest Service;

(h) Require all state, regional, and local government agencies operating aircraft in the vicinity of an ongoing wildfire to operate in compliance with the applicable state Wildfire Aviation Plan;

(i) Authorize broadcast burning, prescribed burning, pile burning, and land clearing debris burning to carry out the duties of this chapter and the rules adopted thereunder; and

(j) Make rules to accomplish the purposes of this chapter.

(2) The Florida Forest Service's employees, and the firefighting crews under their control and direction, may enter upon any lands for the purpose of preventing, detecting, and suppressing wildfires and investigating smoke complaints or open burning not in compliance with authorization and to enforce the provisions of this chapter.

(3) Employees of the Florida Forest Service and of federal, state, and local agencies, and all other persons and entities that are under contract or agreement with the Florida Forest

Service to assist in firefighting operations as well as those entities, called upon by the Florida Forest Service to assist in firefighting may, in the performance of their duties, set counterfires, remove fences and other obstacles, dig trenches, cut firelines, use water from public and private sources, and carry on all other customary activities in the fighting of wildfires without incurring liability to any person or entity. The manner in which the Florida Forest Service monitors a smoldering wildfire or smoldering prescribed fire or fights any wildfire are planning level activities for which sovereign immunity applies and is not waived.

(4)(a) The department may build structures, notwithstanding chapters 216 and 255, not to exceed a cost of $50,000 per structure from existing resources on forest lands, federal excess property, and unneeded existing structures. These structures must meet all applicable building codes.

(b) Notwithstanding s. 553.80(1), the department shall exclusively enforce the Florida Building Code as it pertains to wildfire, law enforcement, and other Florida Forest Service facilities under the jurisdiction of the department.

(5) The Florida Forest Service shall organize its operational units to most effectively prevent, detect, and suppress wildfires, and to that end, may employ the necessary personnel to manage its activities in each unit. The Florida Forest Service may construct lookout towers, roads, bridges, firelines, and other facilities and may purchase or fabricate tools, supplies, and equipment for firefighting. The Florida Forest Service may reimburse the public and private entities that it engages to assist in the suppression of wildfires for

their personnel and equipment, including aircraft.

(6) The Florida Forest Service shall undertake privatization alternatives for fire prevention activities including constructing fire lines and conducting prescribed burns and, where appropriate, entering into agreements or contracts with the private sector to perform such activities.

(7) The Florida Forest Service may organize, staff, equip, and operate the Withlacoochee and Welaka Training Centers ~~Center~~. The centers ~~center~~ shall serve as sites ~~a site~~ where fire and forest resource managers can obtain current knowledge, techniques, skills, and theory as they relate to their respective disciplines, and the centers:~~.~~

(a) ~~The center~~ May establish cooperative efforts involving federal, state, and local entities; hire appropriate personnel; and engage others by contract or agreement with or without compensation to assist in carrying out the training and operations of the centers ~~center~~.

(b) ~~The center~~ Shall provide wildfire suppression training opportunities for rural fire departments, volunteer fire departments, and other local fire response units.

(c) ~~The center~~ Shall focus on curriculum related to, but not limited to, fuel reduction, an incident management system, prescribed burning certification, multiple-use land management, water quality, forest health, environmental education, and wildfire suppression training for structural firefighters.

(d) ~~The center~~ May assess appropriate fees for food, lodging, travel, course materials, and supplies in order to meet their ~~its~~ operational costs and may grant free meals, room, and scholarships to persons and other entities as determined by the

Florida Forest Service, regardless of whether training occurs at the Withlacoochee Training Center or Welaka Training Center or at another location ~~in exchange for instructional assistance~~.

(8)(a) The Cross City Work Center shall be named the L. Earl Peterson Forestry Station. This is to honor Mr. L. Earl Peterson, Florida's sixth state forester, whose distinguished career in state government has spanned 44 years, and who is a native of Dixie County.

(b) The Madison Forestry Station shall be named the Harvey Greene Sr. Forestry Station. This is to honor Mr. Harvey Greene Sr., a World War I veteran and pioneer in forestry in Madison County. In 1947, Mr. Harvey Greene Sr. offered to give the land on which the forestry station is located to the state; however, at that time, the state could not accept donations of land. Instead, Mr. Harvey Greene Sr. sold the land to the state and, with the proceeds of the sale, purchased forestry equipment to be used by the citizens of Madison County to plant trees and fight wildfires.

(c) The Bonifay Forestry Station shall be named the John Michael Mathis Forestry Station. This is to honor the late Mr. John Michael Mathis, the Chipola Forestry Center manager whose distinguished career spanned 18 years, and who received many awards for his service, including commendation for leadership in wildfire mitigation for his service during Hurricane Michael. Mr. John Michael Mathis was a proud husband, father, forester, and friend.

(9)(a) Notwithstanding ss. 273.055 and 287.16, the department may retain, transfer, warehouse, bid, destroy, scrap, or otherwise dispose of surplus equipment and vehicles that are

used for wildland firefighting.

(b) All money received from the disposition of state-owned equipment and vehicles that are used for wildland firefighting shall be retained by the department. Money received pursuant to this section is appropriated for and may be disbursed for the acquisition of exchange and surplus equipment used for wildland firefighting, and for all necessary operating expenditures related to such equipment, in the same fiscal year and the fiscal year following the disposition. The department shall maintain records of the accounts into which the money is deposited.

(10)(a) Notwithstanding the provisions of s. 252.38, the Florida Forest Service has exclusive authority to require and issue authorizations for broadcast burning and agricultural and silvicultural pile burning. An agency, commission, department, county, municipality, or other political subdivision of the state may not adopt or enforce laws, regulations, rules, or policies pertaining to broadcast burning or agricultural and silvicultural pile burning.

(b) The Florida Forest Service may delegate to a county, municipality, or special district its authority:

1. As delegated by the Department of Environmental Protection pursuant to ss. 403.061(29) and 403.081, to manage and enforce regulations pertaining to the burning of yard trash in accordance with s. 590.125(6).

2. To manage the open burning of land clearing debris in accordance with s. 590.125.

Section 35. Section 595.421, Florida Statutes, is created to read:

595.421 Farmers Feeding Florida Program.—There is established the Farmers Feeding Florida Program to coordinate with Feeding Florida, or its successor entity, for the acquisition, transportation, and distribution of non-Emergency Food Assistance Program fresh food products for the benefit of residents who are food insecure due to a lack of local food resources, accessibility, and affordability.

(1) In order to implement the program, Feeding Florida shall:

(a) Enter into an agreement with the department to provide, at a minimum, all of the following services:

1. Transportation of non-Emergency Food Assistance Program fresh food products using owned vehicles or contracted commercial vehicles.

2. Coordination of the purchase and pickup of food from the purchase location and delivery to the distribution location.

(b) Submit monthly reports to the department, beginning July 1, 2026, which include, at a minimum, all of the following:

1. A detailed record of the amount of food purchased, measured per pound and itemized according to its commodity type.

2. Food purchase locations.

3. Food purchase dates.

4. The date of delivery and locations to which the food was distributed.

(c) Submit quarterly reports, beginning July 1, 2026, to the chairs of the legislative appropriations committees, including all of the following information:

1. A detailed record of the amount of food distributed, measured per pound and itemized according to its commodity type.

2. The distribution locations.

3. An itemized list of the types of commodities distributed.

(2) Foods purchased by Feeding Florida through the program are restricted to charitable purposes for hunger relief and may not reenter the wholesale, retail, or secondary market.

(3) Feeding Florida may not, in implementing this section, allow a candidate for elective office to host a food distribution event during the period of time between the last day of the election qualifying period and the date of the election if the candidate is opposed for election or reelection at the time of the event. This subsection does not apply if the event is in response to a declared state of emergency.

Section 36. Present paragraph (c) of subsection (7) of section 597.004, Florida Statutes, is redesignated as paragraph (d) and amended, a new paragraph (c) is added to that subsection, and paragraph (a) of subsection (2) of that section is amended, to read:

597.004 Aquaculture certificate of registration.—

(2) RULES.—

(a) The department, in consultation with the Department of Environmental Protection, the water management districts, environmental groups, and representatives from the affected farming groups, shall adopt rules to:

1. Specify the requirement of best management practices to be implemented by holders of aquaculture certificates of registration.

2. Establish procedures for holders of aquaculture certificates of registration to submit the notice of intent to

comply with best management practices.

3. Establish schedules for implementation of best management practices, and of interim measures that can be taken prior to adoption of best management practices. Interim measures may include the continuation of regulatory requirements in effect on June 30, 1998.

4. Establish a system to assure the implementation of best management practices, including recordkeeping requirements.

5. Require any facility that cultures *Micropterus salmoides* ~~*floridanus*~~ to maintain stock acquisition documentation or records of genetic testing.

(7) REGISTRATION AND RENEWALS.—

(c) The department may not renew a certificate of registration for a facility that is not compliant with this section unless documentation of corrective action is provided with the renewal application.

(d) ~~(c)~~ A ~~Any~~ person whose certificate of registration has been revoked or suspended must reapply to the department for certification. A person, a company, or an entity, or a principal of a company or an entity whose certificate of registration has been revoked, may not reapply for a period of 3 years.

Section 37. Paragraph (a) of subsection (5) of section 597.010, Florida Statutes, is amended to read:

597.010 Shellfish regulation; leases.—

(5) LEASES IN PERPETUITY; RENT.—

(a) All leases issued previously under ~~the provisions of~~ s. 379.2525 shall be enforced under the authority of this chapter, notwithstanding any other law to the contrary, and shall continue in perpetuity under such restrictions as stated in the

lease agreement. The annual rental fee charged for all leases shall consist of the minimum rate of $15 per acre, or any fraction of an acre, per year and may ~~shall~~ be adjusted on January 1, 1995, and every 5 years thereafter, based on the 5-year average change in the Consumer Price Index. Rent must ~~shall~~ be paid in advance of January 1 of each year or, in the case of a new lease, at the time of signing, regardless of who holds the lease.

Section 38. Paragraphs (b) and (c) of subsection (1) of section 599.012, Florida Statutes, are amended to read:

599.012 Florida Wine Trust Fund; creation.—

(1) There is established the Florida Wine Trust Fund within the Department of Agriculture and Consumer Services. The department shall use the moneys deposited in the trust fund pursuant to subsection (2) to do all the following:

(b) Promote wine ~~viticulture~~ products manufactured from products grown in the state.

(c) Provide grants for wine and viticultural research.

Section 39. Subsection (3) of section 601.13, Florida Statutes, is amended to read:

601.13 Citrus research; administration by Department of Citrus; appropriation.—

(3) An entity that solicits research proposals and awards funding for those proposals expending funds received from the State Treasury on citrus production research conducted pursuant to chapter 573, as recommended by the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., or conducted through contract with the department shall deliver a report that includes all of the following information to the commission

biannually and at the request of the commission:

(a) Project plans selected for funding.

(b) The financial status of the projects.

(c) Current findings of the funded research.

(d) Availability of citrus products or application of growers' practices found through funded research.

(e) The status of the commercialization process of such products or practices.

Section 40. Section 616.001, Florida Statutes, is amended to read:

616.001 Definitions.—As used in this chapter, the term:

(1) "Annual public fair" means a ~~community, county, district, regional, or state~~ fair that is held and conducted by a fair association and permitted by the department pursuant to s. 616.15.

(2) "Authority" means the Florida State Fair Authority.

(3) ~~"Community fair" means an annual public fair that serves an area of less than an entire county, has exhibits that are in accordance with s. 616.17, and gives premiums or awards to exhibitors. Agricultural products shall be produced in the community the exhibit represents. The majority of the board of directors of the fair shall reside, be employed, or operate a business in the community the fair represents.~~

~~(4)~~ "Concession" means use by a fair association, or a grant, lease, or license to a third party, of a portion of the land under the ownership, custody, or control of a fair association for specific uses, or the right to enter upon the land for specific purposes, such as providing rides, games, food, beverage, merchandise for sale, exhibits, projects,

activities, events, programs, or other uses authorized in this chapter.

~~(5) "County fair" means an annual public fair that serves an entire county and provides exhibitors with premiums or awards for exhibits that are in accordance with s. 616.17. Agricultural products must be typical of those produced in the county the exhibit represents. The majority of the board of directors of the fair shall reside, be employed, or operate a business in the county that the fair association represents.~~

(4)~~(6)~~ "Department" means the Department of Agriculture and Consumer Services.

~~(7) "District fair" means an annual public fair that serves at least five counties and has exhibits that meet the requirements of s. 616.17. A district fair shall pay at least $25,000 in cash premiums or awards to exhibitors. Agricultural products must be typical of those produced in the counties the exhibit represents. Livestock may originate from outside the district, but must be registered in the exhibitor's name at least 30 days before the opening day of the fair. Each county is encouraged to have proportionate exhibits, typical of its respective natural resources. Each county shall have exhibits representing basic resources in agriculture and industry.~~

(5)~~(8)~~ "Entry" means one item entered for competition or show. An entry may constitute an exhibit, depending upon the regulations stated in the premium book.

(6)~~(9)~~ "Exhibit" means one or more entries entered for exhibition and constituting a unit. An exhibit may consist of one or more entries, depending upon the regulations stated in the premium book. The term includes parades and displays of

articles or a collection of articles, whether static, interactive, or dynamic, by a fair association or a third party contracting with a fair association, such as exhibits of animals, art, housewares, or motor vehicles.

(7)~~(10)~~ "Exhibitor" means an individual, a group of individuals, or a business, including a fair association or third party contracting with a fair association, which has an exhibit.

(8)~~(11)~~ "Fair association" or "association" means an association not for profit incorporated under this chapter for the purpose of conducting and operating public fairs or expositions.

(9)~~(12)~~ "Public fair or exposition" means a project, activity, event, or program, and use by a fair association, including, but not limited to, the annual public fair, which serves the purposes specified in s. 616.08 and benefits and develops the educational, agricultural, horticultural, livestock, charitable, historical, civic, cultural, scientific, and other resources of this state, or any county, municipality, or other community in this state.

~~(13) "Regional fair" or "interstate fair" means an annual public fair of this state and other states in which fair exhibits meet the requirements of s. 616.17. Agricultural products must be typical of those produced in the area the exhibit represents.~~

(10)~~(14)~~ "Specialized show" means a show or an exhibition exhibiting and emphasizing livestock or poultry, or a fruit or vegetable festival, and must meet the minimum exhibit requirements specified in s. 616.17. ~~A specialized show may~~

~~qualify under one of the definitions in subsections (3), (5), (7), and (15).~~

(11)~~(15)~~ "State fair" means an annual public fair that serves the entire state. ~~Exhibits must comply with s. 616.17, and cash premiums or awards may be given to exhibitors.~~

Section 41. Section 616.01, Florida Statutes, is amended to read:

616.01 Requirements for ~~Number of persons required; requisites of~~ proposed charter.~~—Twenty-five or more persons who are~~ Residents and qualified electors of the county in which the annual public fair is to be located, who wish to form an association not for profit for the purpose of conducting and operating public fairs or expositions, may become incorporated in the following manner. The applicant must ~~subscribers shall~~ submit the proposed charter to the department for review and approval or denial. If the proposed charter is denied, the department must provide the applicant with a letter sent to the mailing address provided on the proposed charter and include a complete listing of all deficiencies, if any, which must be remedied before resubmittal of the proposed charter for approval. If the proposed charter is approved, the applicant must ~~subscribers shall~~ sign and present a notarized copy of the proposed charter to the judge of the circuit court for the county in which the principal office of the association will be located. The proposed charter must specify:

(1) The name of the association and the place where the principal office is to be located. The name of the association must ~~shall~~ include the word, "Inc."

(2) The general nature of the objectives and powers of the

association, including a provision that the association is incorporated for the sole purpose of conducting and operating public fairs or expositions.

(3) The qualifications and terms of association members and criteria for their admission and expulsion. Provision must ~~may~~ be made in the charter for ex officio membership.

(4) The time for which the association is to exist.

(5) The name and residence of each subscriber.

(6) Procedures for the election of and governance by officers, who may be elected or appointed.

(7) The designation of officers who will manage the affairs of the association until the first election or appointment under the charter.

(8) Procedures for the adoption, amendment, or rescission of bylaws of the association.

(9) The highest amount of indebtedness or liability that may be accrued by the association.

(10) The name of an elected member of the board of county commissioners of the county in which the principal office of the association will be located, who will serve as an ex officio member of the board of directors of the association.

(11) The official e-mail address of the association which will be used for the purpose of official communication between the association and governmental entities.

(12) The language for the oath that will be taken by the applicant, which must include, but is not limited to, all of the following:

(a) That the primary objective of the association is for public service and to hold, conduct, and promote public fairs or

expositions.

(b) That money and other available assets in value exceeding $5,000 have been provided for purposes designated by the association.

(c) That the association will operate in good faith to carry out the purposes and objectives set forth in the charter.

Section 42. Section 616.02, Florida Statutes, is amended to read:

616.02 Fair associations per county ~~Acknowledgment of charter~~.—

(1) Beginning July 1, 2026, there may be only one incorporated fair association per county in this state, excluding the state fair, which may be incorporated and conducted in any county. The department may not approve a proposed charter incorporating a fair association within the same county in which a fair association currently exists. The department may waive this requirement at the discretion of the Commissioner of Agriculture.

(2) Any fair association incorporated before July 1, 2026, may conduct public fairs or expositions and exercise the authority provided to them pursuant to this chapter ~~The proposed charter of a fair association shall be acknowledged by at least three of its subscribers before an officer authorized to make acknowledgment of deeds. Subscribers shall also make and take an oath, which must be attached to the proposed charter, stating that the primary objective of the association is public service and holding, conducting, and promoting public fairs or expositions; that money and other available assets in value exceeding $5,000 have been provided for the purposes of the~~

~~association; and that the association will operate in good faith to carry out the purposes and objectives set forth in its charter~~.

Section 43. Section 616.03, Florida Statutes, is amended to read:

616.03 ~~Notice of application;~~ Approval and record of charter.—Upon approval by the department, ~~A notice of intention to apply to the circuit court for the charter of a fair association must specify the date that application will be made, shall be sent to the department for approval, and shall be published in a newspaper in the county where the principal office of the association will be located once each week for 4 consecutive weeks. The notice must briefly summarize the charter and objectives of the proposed association.~~ the proposed charter must ~~shall~~ be submitted to and approved by the board of county commissioners of the county in which the principal office of the association will be located. After approval by the ~~department and the~~ board of county commissioners, the proposed charter and proof of approval must ~~and publication shall~~ be submitted to the circuit judge ~~on the date specified in the notice~~. If no cause is shown to the contrary and the judge finds that the proposed charter is in proper form and will serve the primary objective of public service, the judge must ~~shall~~ approve the charter and issue an order incorporating the applicant ~~subscribers~~ under the charter for the objectives and purposes specified in the charter. The charter and order of incorporation must ~~shall~~ be recorded in the office of the clerk of the circuit court in the county where the principal office of the association will be located and provided to the department. After the order is

recorded, the applicant ~~subscribers~~ and any ~~their~~ associates are incorporated with the objectives and powers established in the charter and under the name given in the charter. ~~During the publication period, the proposed charter shall be on file in the office of the clerk of the circuit court.~~ This section does not preclude a fair association from also filing its duly approved charter with the Department of State pursuant to chapter 617 for notice purposes.

Section 44. Subsection (2) of section 616.05, Florida Statutes, is amended to read:

616.05 Amendment of charter.—A fair association may propose an amendment to its charter by resolution as provided in its charter or bylaws.

(2) After the department approves the proposed amendment, it will be incorporated into the original charter upon:

(a) ~~Publication of notice in the same manner as provided in s. 616.03;~~

~~(b)~~ Filing the order of the circuit judge approving the amendment with the office of the clerk of the circuit court and the department; and

(b)~~(c)~~ Being recorded in the clerk's office.

If a fair association has filed its charter with the Department of State pursuant to chapter 617, a copy of any amendment to the charter must be filed with the Department of State for notice purposes.

Section 45. Section 616.051, Florida Statutes, is amended to read:

616.051 Dissolving a charter.—

(1) A fair association may dissolve its charter by resolution as provided in its charter or bylaws. The proposal for dissolving the charter shall be submitted to the department for approval.

(2) Upon approval by the department and upon presentation of sufficient evidence demonstrating ~~and publication of notice and proof~~ that all indebtedness has been paid and no claims are outstanding against the association, the circuit judge may, by decree, dissolve the association and order the distribution of its remaining assets. Such assets must be distributed, by resolution of the board of directors, to the county in which the principal office of the association is located unless otherwise specified by the deed of the property held by the association ~~its remaining public funds to be distributed as recommended by the board of directors~~.

Section 46. Subsection (3) of section 616.07, Florida Statutes, is amended, and subsections (1) and (2) of that section are republished, to read:

616.07 Members not personally liable; property of association held in trust; exempt from taxation.—

(1) A member, officer, director, or trustee of a fair association is not personally liable for any of the debts of the association, and money or property of a fair association may not be distributed as profits or dividends among its members, officers, directors, or trustees.

(2) All money and property of the association, except that necessary for the payment of its just debts and liabilities, are public property, shall be administered by the association as trustee, and shall be used exclusively for the legitimate

purpose of the association. So long as they are used for that purpose, all money and property of the association are exempt from all forms of taxation, including special assessments, and any projects, activities, events, programs, and uses authorized by this part serve an essential governmental purpose and, therefore, are not taxable and are not subject to assessments. This subsection does not apply to chapter 212.

~~(3) Upon order of the circuit judge, any public funds or property remaining in a fair association when the association is dissolved shall be distributed by resolution of the board of directors to any county or any municipality within the county. The board may designate in the distribution resolution the public project that will benefit from the funds or the manner in which the property will be used. If property has been contributed by a municipality or county, the property shall be reconveyed to the municipality or county that gave the property to the association.~~

Section 47. Section 616.101, Florida Statutes, is amended to read:

616.101 Annual review of accounts and records; review of charter.—

(1) The accounts and records of a ~~every~~ fair association whose annual public fair has an annual attendance of more than 25,000, based upon recorded attendance from the previous year, must ~~shall~~ be reviewed annually by a qualified accountant licensed by the state. A fair association whose annual public fair has an annual attendance of 25,000 or fewer, based upon recorded attendance from the previous year, or a fair association that is holding an annual public fair for the first

time, must submit an annual financial statement that has been signed by an officer of the county. The results of the reviews must ~~shall~~ be kept in the official records of each association, available to all directors of the association. A certified copy of the review must ~~shall~~ be filed with the department:

(a)~~(1)~~ On request by the department to certify expenditures of the premiums awarded to exhibitors of a fair or of building funds if ~~when~~ there is evidence of a violation of state laws; or

(b)~~(2)~~ When the association is applying for a fair permit.

(2) A fair association shall, every 5 years beginning July 1, 2026, review its charter and submit to the department a certified copy of the charter which incorporates any amendment made during the last 5 years. A designated member of the association shall attest that the charter is accurate and factual when submitting the certified copy to the department.

Section 48. Section 616.15, Florida Statutes, is amended to read:

616.15 Permit from Department of Agriculture and Consumer Services required.—

(1) An annual public fair may not be conducted by a fair association without a permit issued by the department. The association shall present to the department an application for a permit, signed by an officer of the association, at least 90 calendar days ~~3 months~~ before holding the annual public fair. The application must ~~shall~~ be accompanied by a fee in an amount to be determined by the department for processing the application and making any required investigation. The application fee must be at least $183 and may not exceed $366. Fees collected under this subsection shall be deposited in the

General Inspection Trust Fund of the State Treasury in a special account to be known as the "Agricultural and Livestock Fair Account." A copy of the application must be sent to each fair association located within 50 miles of the site of the proposed annual public fair at the same time the application is sent to the department. The department may issue a permit if the applicant provides:

(a) The opening and closing dates of the proposed annual public fair.

(b) The name and address of the owner of the central amusement attraction that will operate during the annual public fair.

(c) An affidavit properly executed by the president or chief executive officer of the applicant association certifying the existence of a binding contract entered into by the association and the owner of the central amusement attraction covering the period for which the permit from the department is applied. The contract between the parties must ~~shall~~ be available for inspection by duly authorized agents of the department in administering this chapter.

(d) A copy of the association's charter which incorporates all amendments made ~~A written statement that the main purpose of the association is to conduct and operate a public fair and exposition, including the annual fair, for the benefit and development of the educational, agricultural, horticultural, livestock, charitable, historical, civic, cultural, scientific, and other resources of the geographical area the fair association represents and serves. The statement must be subscribed and acknowledged by an officer of the association~~

~~before an officer authorized to take acknowledgments~~.

(e) A premium list of the current annual public fair to be conducted and ~~or~~ a copy of the previous year's premium list showing all premiums and awards to be offered to exhibitors in various departments of the annual public fair, which may include, but are not limited to, art exhibition~~;~~ beef cattle~~;~~ county exhibits~~;~~ dairy cattle~~;~~ horticulture~~;~~ swine~~;~~ ~~women's department,~~ 4-H Club activities~~;~~ Future Farmers of America activities; Family, Career and Community Leaders of America ~~Future Homemakers of America~~ activities~~;~~ poultry and egg exhibits~~;~~ and community exhibits. The premium list, which may be submitted separately from the application, must be submitted at least 60 calendar days before the annual public fair begins operation.

(f) A complete listing of all exhibits required pursuant to s. 616.17 ~~Proof of liability insurance insuring the association against liability for injury to persons, in an amount of not less than $300,000 per occurrence~~.

~~(g) A copy of the most recent review.~~

~~(h) A list of all current members of the board of directors of the association and their contact information, including home address.~~

The department shall issue the permit within 10 calendar days after it receives ~~all~~ the information required by this subsection ~~and the applicant qualifies pursuant to this section~~.

(2) At least 21 calendar days before holding the annual public fair, the association shall present the department with all of the following information:

(a) Proof of liability insurance insuring the association against liability for injury to persons, in an amount not less than $300,000 per occurrence.

(b) A copy of the association's most recent annual financial statement pursuant to s. 616.101.

(c) A list of all current members of the board of directors of the association and their contact information, including mailing addresses.

(3)~~(2)~~ The department shall administer and enforce ~~the provisions of~~ this chapter except as to the regulation of games, which shall be regulated by local law enforcement agencies. The department shall adopt rules to administer this chapter, including rules governing the form and contents of the application for the permit and any reports that it deems ~~may deem~~ necessary in enforcing the provisions of this chapter.

(4)~~(3)~~ Notwithstanding any fair association meeting the requirements set forth in subsection (1), the department may order a full investigation to determine if the fair association meets the requirements of this part ~~s. 616.01~~, and may withhold a permit from, deny a permit to, or withdraw a permit once issued to the association. The department shall also consider whether any proposed annual public fair, as set forth in an application for a permit, will compete with another annual public fair within 50 miles of the proposed annual public fair with respect to name, dates of operation, or market. The department may deny, withhold, or withdraw a permit from a fair association if the department determines that such fair association will compete with another association. The department shall give preference to existing fair associations

with established dates, locations, and names. The determination by the department is final.

Section 49. Section 616.251, Florida Statutes, is amended to read:

616.251 Florida State Fair Authority; creation; responsibility for staging annual state fair; exemptions.—

(1) There is created and constituted the "Florida State Fair Authority," a public body corporate and politic, for the purposes and with the powers set forth in this part. Such instrumentality, hereinafter referred to as "the authority," shall have perpetual succession. For the purposes of implementing the intent of this part, the authority shall be considered an instrumentality of the state, subject to the jurisdiction of the state. Any conflict with respect to that jurisdiction will be resolved by the authority and respective state agencies.

(2) The authority shall operate under the supervision of the Commissioner of Agriculture, which supervision may include, but is not limited to, assisting, advising, and making recommendations regarding the financing and operation of the authority. In assisting and advising the authority, the Commissioner of Agriculture may make appropriate staff of the department available to the authority.

(3) The authority is charged with the responsibility of staging an annual fair to serve the entire state. Cash premiums or awards may be given to exhibitors.

(4) The authority shall be exempt from the requirements of part I of this chapter.

(5)~~(4)~~ The principal offices of the authority shall be in

such place or places in or near the City of Tampa as the authority may from time to time designate.

Section 50. Paragraph (b) of subsection (2) of section 624.4032, Florida Statutes, is amended to read:

624.4032 Nonprofit agricultural organization medical benefit plans.—

(2) For purposes of this section, the term "nonprofit agricultural organization" means an organization that meets all of the following criteria:

(b) Is exempt from federal income tax under s. 501(c)(5) ~~s. 501(c)(3)~~ of the Internal Revenue Code.

Section 51. Subsection (1) of section 843.085, Florida Statutes, is amended, and subsection (5) of that section is republished, to read:

843.085 Unlawful use of badges or other indicia of authority.—

(1) It is unlawful for any person, unless appointed by the Governor pursuant to chapter 354, authorized by the appropriate agency, or displayed in a closed or mounted case as a collection or exhibit, to wear or display any authorized indicia of authority, including any badge, insignia, emblem, identification card, or uniform, or any colorable imitation thereof, of any federal, state, county, or municipal law enforcement agency, or other criminal justice agency as defined in s. 943.045, with the intent to mislead or cause another person to believe that he or she is a member of that agency or is authorized to display or wear such item, or to wear or display any item that displays in any manner or combination the word or words "police," "patrolman," "patrolwoman," "agent," "sheriff," "deputy,"

"trooper," "highway patrol," "commission officer," "Wildlife Officer," "Department of Environmental Protection officer," "Marine Patrol Officer," "state attorney," "public defender," "marshal," "constable," "bailiff," ~~or~~ "fire department," "concealed weapon permit," or "concealed weapon permitholder," with the intent to mislead or cause another person to believe that he or she is a member of that agency, if applicable, or is authorized to wear or display such item.

(5) A violation of this section is a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083. This section is cumulative to any law now in force in the state.

Section 52. Subsection (27) is added to section 934.02, Florida Statutes, to read:

934.02 Definitions.—As used in this chapter:

(27) "Signal jamming device" means a device or process, such as a phone jammer, global positioning systems blocker, or other similar device designed to intentionally block, jam, or interfere with radio communications, such as cellular and personal communication services, police radar, or global positioning systems.

Section 53. Section 934.51, Florida Statutes, is created to read:

934.51 Possession, use, and sale of signal jamming device; prohibition; exceptions; penalties.—

(1) PROHIBITION.—It is unlawful to possess, manufacture, hold or offer for sale, sell, import, distribute, or use a signal jamming device in this state.

(2) EXCEPTIONS.—This section does not apply to a federal or

military law enforcement agency that lawfully installs, places, or uses a signal jamming device as part of a criminal investigation, or to any person duly authorized by the Federal Communications Commission.

(3) PENALTIES.—A person who violates this section commits a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083.

Section 54. (1) The Citrus Research and Development Foundation, Inc., the nonprofit corporation established in s. 573.112(7), Florida Statutes, is merged into the Citrus Research and Field Trial Foundation, Inc.

(2) The Citrus Research and Development Foundation, Inc., must enter into a plan with the Citrus Research and Field Trial Foundation, Inc., for the merger. Such merger must be completed by October 1, 2026. The merger is subject to chapter 617, Florida Statutes, related to the merger of nonprofit corporations.

(3) Any funds held in trust which were donated to or earned by the Citrus Research and Development Foundation, Inc., shall be transferred to the Citrus Research and Field Trial Foundation, Inc., and shall be used for the original purposes of the funds.

(4) The transfer of any program, activity, duty, or function under this act includes the transfer of any records and unexpected balances of appropriations, allocations, or other funds related to such program, activity, duty, or function. Except as otherwise provided by law, the Citrus Research and Field Trial Foundation, Inc., shall become the custodian of any property of the Citrus Research and Development Foundation,

Inc., on the date specified in the plan of merger or October 1, 2026, whichever occurs first.

Section 55. Paragraph (a) of subsection (4) and subsection (6) of section 288.1175, Florida Statutes, are amended to read:

288.1175 Agriculture education and promotion facility.—

(4) The Department of Agriculture and Consumer Services shall certify a facility as an agriculture education and promotion facility if the Department of Agriculture and Consumer Services determines that:

(a) The applicant is a unit of local government as defined in s. 218.369, or a fair association as defined in s. 616.001(8) ~~s. 616.001(11)~~, which is responsible for the planning, design, permitting, construction, renovation, management, and operation of the agriculture education and promotion facility or holds title to the property on which such facility is to be developed and located.

(6) Funds may not be expended to develop or subsidize privately owned facilities, except for facilities owned by fair associations as defined in s. 616.001(8) ~~s. 616.001(11)~~.

Section 56. For the purpose of incorporating the amendment made by this act to section 287.1351, Florida Statutes, in a reference thereto, subsection (4) of section 287.056, Florida Statutes, is reenacted to read:

287.056 Purchases from purchasing agreements and state term contracts; vendor disqualification.—

(4) A firm or individual placed on the suspended vendor list pursuant to s. 287.1351 or placed on a disqualified vendor list pursuant to s. 287.133 or s. 287.134 is immediately disqualified from state term contract eligibility.

Section 57. For the purpose of incorporating the amendment made by this act to section 287.1351, Florida Statutes, in a reference thereto, subsection (5) of section 287.138, Florida Statutes, is reenacted to read:

287.138 Contracting with entities of foreign countries of concern prohibited.—

(5) The Attorney General may bring a civil action in any court of competent jurisdiction against an entity that violates this section. Violations of this section may result in:

(a) A civil penalty equal to twice the amount of the contract for which the entity submitted a bid or proposal for, replied to, or entered into;

(b) Ineligibility to enter into, renew, or extend any contract, including any grant agreements, with any governmental entity for up to 5 years;

(c) Ineligibility to receive or renew any license, certification, or credential issued by a governmental entity for up to 5 years; and

(d) Placement on the suspended vendor list pursuant to s. 287.1351.

Section 58. For the purpose of incorporating the amendment made by this act to section 500.04, Florida Statutes, in a reference thereto, subsection (1) of section 500.177, Florida Statutes, is reenacted to read:

500.177 Penalty for violation of s. 500.04; dissemination of false advertisement.—

(1) Any person who violates any provision of s. 500.04 is guilty of a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083; but, if the violation is

committed after a conviction of such person under this section has become final, such person is guilty of a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083.

Section 59. For the purpose of incorporating the amendment made by this act to section 616.07, Florida Statutes, in a reference thereto, subsection (13) of section 212.08, Florida Statutes, is reenacted to read:

212.08 Sales, rental, use, consumption, distribution, and storage tax; specified exemptions.—The sale at retail, the rental, the use, the consumption, the distribution, and the storage to be used or consumed in this state of the following are hereby specifically exempt from the tax imposed by this chapter.

(13) LIMITATIONS ON EXEMPTIONS.—No transactions shall be exempt from the tax imposed by this chapter except those expressly exempted herein. All laws granting tax exemptions, to the extent they may be inconsistent or in conflict with this chapter, including, but not limited to, the following designated laws, shall yield to and be superseded by the provisions of this subsection: ss. 125.019, 153.76, 154.2331, 159.15, 159.31, 159.50, 159.708, 163.385, 163.395, 215.76, 243.33, 315.11, 348.65, 348.762, 349.13, 403.1834, 616.07, and 623.09, and the following Laws of Florida, acts of the year indicated: s. 31, chapter 30843, 1955; s. 19, chapter 30845, 1955; s. 12, chapter 30927, 1955; s. 8, chapter 31179, 1955; s. 15, chapter 31263, 1955; s. 13, chapter 31343, 1955; s. 16, chapter 59-1653; s. 13, chapter 59-1356; s. 12, chapter 61-2261; s. 19, chapter 61-2754; s. 10, chapter 61-2686; s. 11, chapter 63-1643; s. 11, chapter

65-1274; s. 16, chapter 67-1446; and s. 10, chapter 67-1681. This subsection does not supersede the authority of a local government to adopt financial and local government incentives pursuant to s. 163.2517.

Section 60. For the purpose of incorporating the amendment made by this act to section 616.15, Florida Statutes, in a reference thereto, section 616.185, Florida Statutes, is reenacted to read:

616.185 Trespass upon grounds or facilities of public fair; penalty; arrests.—

(1) For the purposes of this chapter, trespass upon the grounds of the Florida State Fair Authority or any other fair association permitted under s. 616.15 means:

(a) Entering and remaining upon any grounds or facilities owned, operated, or controlled by the Florida State Fair Authority or any other association permitted under s. 616.15 and committing any act that disrupts the orderly conduct of any authorized activity of the fair association in charge, or its lessees, licensees, or the general public on those grounds or facilities; or

(b) Entering and remaining on those grounds or facilities after being directed not to enter or to leave them by the executive director of the authority, chief administrative officer of the fair association, or any employee or agent of the association designated by the executive director or administrator to maintain order on those grounds and facilities, after a determination by the executive director, administrator, employee, or agent that the entering or remaining on those grounds or facilities is in violation of the rules and

regulations of the Florida State Fair Authority or permitted fair association or is disrupting the orderly conduct of any authorized activity of the fair association in charge, or its lessees, licensees, or the general public on those grounds or facilities.

(2) Any person committing the offense of trespass upon the grounds of the Florida State Fair Authority or any other fair association permitted under s. 616.15 commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

(3) A law enforcement officer may arrest any person on or off the premises, without a warrant, if the officer has probable cause for believing such person has committed the offense of trespass upon the grounds of the Florida State Fair Authority or any fair association permitted under s. 616.15. Such an arrest does not render the law enforcement officer criminally or civilly liable for false arrest, false imprisonment, or unlawful detention.

Section 61. This act shall take effect July 1, 2026.

# CHAPTER 2026-3

## Committee Substitute for Committee Substitute for Committee Substitute for Senate Bill No. 290

An act relating to the Department of Agriculture and Consumer Services; creating s. 125.489, F.S.; defining the terms "gasoline-powered farm equipment" and "gasoline-powered landscape equipment"; prohibiting counties from enacting or enforcing any law that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment or that distinguishes such equipment from any other equipment under certain circumstances; providing construction; amending s. 163.3164, F.S.; defining the terms "ecologically significant parcel" and "low-density municipality"; amending s. 163.3202, F.S.; prohibiting an application for a development on an ecologically significant parcel in a low-density municipality from being administratively approved without an attestation provided by the developer; specifying requirements for such attestation; providing applicability; specifying requirements for the attestation included in certain applications; providing for a waiver; creating s. 166.063, F.S.; defining the terms "gasoline-powered farm equipment" and "gasoline-powered landscape equipment"; prohibiting municipalities from enacting or enforcing any law that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment or that distinguishes such equipment from any other equipment under certain circumstances; providing construction; amending s. 212.055, F.S.; conforming a cross-reference; making a technical change; amending s. 253.0341, F.S.; requiring the Acquisition and Restoration Council to determine whether certain surplused lands are suitable for bona fide agricultural purposes; prohibiting a local governmental entity from transferring future development rights for surplused lands determined to be suitable for bona fide agricultural purposes; requiring the Department of Environmental Protection, in coordination with the Department of Agriculture and Consumer Services, to determine whether certain state-owned conservation lands are suitable for bona fide agricultural purposes; authorizing the Department of Environmental Protection to surplus certain state-owned lands determined to be suitable for bona fide agricultural purposes; requiring the Department of Environmental Protection to retain a rural-lands-protection easement for such surplused lands; requiring that all proceeds from the sale of such surplused lands be deposited in the Department of Agriculture and Consumer Services' Incidental Trust Fund for less than fee simple; requiring the Department of Environmental Protection to annually provide a report of such surplused lands to the Board of Trustees of the Internal Improvement Trust Fund; prohibiting certain lands from being surplused; amending s. 259.1053, F.S.; deleting provisions relating to the Babcock Ranch Advisory Group; amending s. 287.1351, F.S.; revising circumstances under which a vendor is prohibited from submitting a bid, proposal, or reply to an agency or from entering into or renewing any


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contract to provide goods or services to an agency; amending s. 322.12, F.S.; providing penalties for an applicant for a commercial driver license who receives unauthorized assistance on certain portions of the examination; amending s. 322.36, F.S.; prohibiting a person from knowingly or willfully providing unauthorized assistance to an applicant for the examination required to hold a commercial driver license; repealing ss. 377.71, 377.711, and 377.712, F.S., relating to definitions and the Southern States Energy Compact, Florida as party to the Southern States Energy Compact, and Florida's participation in the Southern States Energy Board, respectively; amending s. 403.0855, F.S.; deleting a provision relating to legislative approval of certain rules adopted by the Department of Environmental Protection; revising requirements for permittees of biosolids land application sites; revising the date by which permits must comply with specified provisions; requiring local governments that do not transport biosolids outside of their respective county boundaries to comply with specified provisions by a specified date; providing construction; amending s. 482.071, F.S.; requiring certain persons applying for a pest control business license or renewal to provide the department with a certificate of insurance; specifying requirements for such certificate of insurance; amending s. 482.161, F.S.; revising the severity of an administrative fine for violations of certain provisions; amending s. 482.165, F.S.; revising civil penalties; amending s. 489.105, F.S.; defining the terms "subcontractor" and "supplier"; creating s. 489.1295, F.S.; requiring licensed contractors to compensate subcontractors or suppliers for services, labor, or materials within a specified timeframe after receiving payment or in accordance with the terms of the contract for services, labor, or materials; providing an exception; providing disciplinary measures; amending s. 500.04, F.S.; revising the list of prohibited acts related to the prevention of fraud, harm, adulteration, misbranding, or false advertising in the preparation, production, manufacture, storage, or sale of food; repealing s. 500.81, F.S., relating to the Healthy Food Financing Initiative; amending s. 500.93, F.S.; making a technical change; amending s. 501.013, F.S.; authorizing the Department of Agriculture and Consumer Services to provide an exemption from certain health studio regulations; creating s. 501.062, F.S.; providing legislative intent; defining the terms "commercial solicitation" and "dwelling"; prohibiting a person from engaging in commercial solicitation under certain circumstances; specifying requirements for certain signage to be displayed on a property; providing penalties; amending s. 570.07, F.S.; authorizing the Department of Agriculture and Consumer Services to reorganize departmental units upon the approval of the Commissioner of Agriculture; amending s. 570.822, F.S.; providing additional eligibility requirements for the Agriculture and Aquaculture Producers Emergency Recovery Loan Program; creating s. 570.832, F.S.; requiring the Florida Wildflower Foundation, Inc., in coordination with the Department of Agriculture and Consumer Services, to establish the Florida Native Seed Research and Marketing Program, subject to legislative appropriation; providing the purpose of the program; creating s. 570.846, F.S.; establishing the Florida Food Animal and Equine Veterinary Medicine Loan



CODING: Words ~~stricken~~ are deletions; words underlined are additions.

Repayment Program; providing the purpose of the program; defining terms; providing eligibility requirements for the program; authorizing the Department of Agriculture and Consumer Services to make loan principal repayments on behalf of eligible candidates up to a certain amount for a specified timeframe, subject to legislative appropriation; providing construction; authorizing the Department of Agriculture and Consumer Services to adopt rules; amending s. 570.85, F.S.; prohibiting a local government from requiring a property owner to obtain a rural event venue permit or license; amending s. 570.86, F.S.; defining the term "rural event venue"; amending s. 573.112, F.S.; renaming the Citrus Research and Development Foundation, Inc., as the Citrus Research and Field Trial Foundation, Inc.; establishing the Citrus Research and Field Trial Foundation, Inc., as a direct-support organization of the Department of Agriculture and Consumer Services; revising provisions relating to membership; amending s. 581.031, F.S.; conforming a provision to changes made by the act; amending s. 583.01, F.S.; revising the definition of the term "dealer"; amending s. 590.02, F.S.; revising the Florida Forest Service's powers, authority, and duties; authorizing the Florida Forest Service to manage the Welaka Training Center; conforming provisions to changes made by the act; authorizing the Withlacoochee and Welaka Training Centers to assess fees for specified purposes as determined by the Florida Forest Service, regardless of where certain training occurs; renaming the Bonifay Forestry Station as the John Michael Mathis Forestry Station to honor the late John Michael Mathis; creating s. 595.421, F.S.; establishing the Farmers Feeding Florida Program for specified purposes; requiring Feeding Florida to take certain actions to implement the program; prohibiting the foods purchased by Feeding Florida through such program from reentering the wholesale, retail, or secondary market; prohibiting Feeding Florida from allowing a candidate for elective office to host a food distribution event during a specified timeframe; providing applicability; amending s. 597.004, F.S.; making a technical change; prohibiting the Department of Agriculture and Consumer Services from renewing a certificate of registration for a noncompliant facility unless certain documentation is provided with the renewal application; prohibiting entities whose certificate of registration has been revoked from reapplying for a specified period of time; amending s. 597.010, F.S.; authorizing, rather than requiring, the periodic adjustment of the annual rental fee charged for certain leases; amending s. 599.012, F.S.; making technical changes; amending s. 601.13, F.S.; renaming the Citrus Research and Development Foundation, Inc., as the Citrus Research and Field Trial Foundation, Inc.; amending s. 616.001, F.S.; revising and deleting definitions relating to public fairs and expositions; amending s. 616.01, F.S.; revising application requirements for a proposed charter for an association to conduct a public fair or exposition; requiring the Department of Agriculture and Consumer Services to provide an applicant for a proposed charter with specified information upon the denial of a proposed charter; revising requirements for information that must be included in the proposed charter; amending s. 616.02, F.S.; limiting the number of incorporated state fair associations

per county; providing construction; authorizing the Department of Agriculture and Consumer Services to waive certain requirements at the discretion of the commissioner; authorizing fair associations incorporated before a certain date to conduct their affairs; deleting provisions relating to requirements for a proposed charter; amending s. 616.03, F.S.; revising requirements for the approval and recordation of the charter; amending s. 616.05, F.S.; revising the process by which a proposed charter amendment is incorporated into the original charter; amending s. 616.051, F.S.; revising the circumstances under which a circuit judge is authorized to dissolve an association and order the distribution of its remaining assets; requiring that such assets be distributed to certain counties; amending s. 616.07, F.S.; deleting provisions relating to distribution of public funds after the dissolution of an association; amending s. 616.101, F.S.; specifying the basis for annual public fair attendance records; requiring a fair association to review its charter every 5 years and submit an updated copy of the charter to the Department of Agriculture and Consumer Services; requiring a designated member of the association to make an attestation; amending s. 616.15, F.S.; making a technical change; revising the information that an applicant must submit to the Department of Agriculture and Consumer Services for the department to issue a permit for an association to conduct a fair; revising the timeframe within which the Department of Agriculture and Consumer Services is required to issue the permit upon the receipt of specified information; making technical changes; deleting obsolete provisions; amending s. 616.251, F.S.; exempting the Florida State Fair Authority from specified provisions; amending s. 624.4032, F.S.; revising the definition of the term "nonprofit agricultural organization"; amending s. 843.085, F.S.; prohibiting a person from wearing or displaying an item that displays the words "concealed weapon permit" or "concealed weapon permitholder" with the intent to mislead another to believe that the person is authorized to wear or display such item; amending s. 934.02, F.S.; defining the term "signal jamming device"; creating s. 934.51, F.S.; prohibiting the possession, manufacture, sale, importation, distribution, or use of a signal jamming device; providing exceptions; providing criminal penalties; providing for the merger and transfer of the Citrus Research and Development Foundation, Inc., into the Citrus Research and Field Trial Foundation, Inc.; requiring the completion of the merger by a specified date; providing that the merger is subject to specified provisions; providing for the transfer of funds; providing for the transfer of any program, activity, duty, or function; establishing the Citrus Research and Field Trial Foundation, Inc., as the custodian of any property of the Citrus Research and Development Foundation, Inc.; amending s. 288.1175, F.S.; conforming cross-references; reenacting ss. 287.056(4) and 287.138(5), F.S., relating to disqualification for state term contract eligibility and contracting with entities of foreign countries of concern prohibited, respectively, to incorporate the amendment made to s. 287.1351, F.S., in references thereto; reenacting s. 500.177(1), F.S., relating to penalties for dissemination of a false advertisement, to incorporate the amendment made to s. 500.04, F.S., in a reference thereto; reenacting s. 212.08(13), F.S., relating to taxation

and specified exemptions, to incorporate the amendment made to s. 616.07, F.S., in a reference thereto; reenacting s. 616.185, F.S., relating to trespass upon grounds or facilities of a public fair, to incorporate the amendment made to s. 616.15, F.S., in a reference thereto; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Section 125.489, Florida Statutes, is created to read:

125.489 Preemption of restrictions on gasoline-powered farm equipment or gasoline-powered landscape equipment.—

(1) As used in this section, the term:

(a) "Gasoline-powered farm equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used on a farm or used to transport farm products.

(b) "Gasoline-powered landscape equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used to provide landscape management or maintenance or to move leaves, dirt, grass, or other debris off of sidewalks, driveways, lawns, or other surfaces.

(2) A county may not enact or enforce a resolution, an ordinance, a rule, a code, or a policy or take any action that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment and may not create differing standards for such equipment or distinguish such equipment from any electric or similar equipment in a retail, manufacturer, or distributor setting.

(3) This section does not prohibit or limit a county from encouraging the use of alternative farm or landscape equipment, such as battery-powered farm or landscape equipment.

Section 2. Present subsections (18) through (30) and (31) through (54) of section 163.3164, Florida Statutes, are redesignated as subsections (19) through (31) and (33) through (56), respectively, and new subsections (18) and (32) are added to that section, to read:

163.3164 Community Planning Act; definitions.—As used in this act:

(18) "Ecologically significant parcel" means a parcel of land located within the boundaries of a low-density municipality which is currently undeveloped and has been designated as either rural, conservation, agricultural, or greenspace as provided by a local government comprehensive plan developed pursuant to s. 163.3177.

(32) "Low-density municipality" means a municipality existing on or before January 1, 2025, which is less than 2,500 acres in total size and contains a population of 5,000 or fewer legal residents.

Section 3. Present subsection (7) of section 163.3202, Florida Statutes, is redesignated as subsection (8), and a new subsection (7) is added to that section, to read:

163.3202 Land development regulations.—

(7)(a) Notwithstanding any ordinance to the contrary, an application for a development on an ecologically significant parcel in a low-density municipality may not be administratively approved without an attestation provided by the developer, under penalty of perjury, to the low-density municipality which states that the development will not exceed a maximum density of 1 residential unit per 20 acres.

(b) This subsection does not apply to applications for the construction of residential units on an ecologically significant parcel for the express purpose of providing housing for family members of the applicant. However, the applicant must provide an attestation, under penalty of perjury, to the low-density municipality which states that the residential units being constructed will be used for such express purpose before the administrative approval of an application for development.

(c) The density requirements provided in this subsection may be waived upon a resolution approved by a unanimous vote of the commission or council of the low-density municipality.

Section 4. Section 166.063, Florida Statutes, is created to read:

166.063 Preemption of restrictions on gasoline-powered farm equipment or gasoline-powered landscape equipment.—

(1) As used in this section, the term:

(a) "Gasoline-powered farm equipment" means a machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used on a farm or used to transport farm products.

(b) "Gasoline-powered landscape equipment" means any machine powered by an internal combustion engine or motor that uses gasoline, diesel, or a blend of gasoline and oil which is used to provide landscape management or maintenance or to move leaves, dirt, grass, or other debris off of sidewalks, driveways, lawns, or other surfaces.

(2) A municipality may not enact or enforce a resolution, an ordinance, a rule, a code, or a policy or take any action that restricts or prohibits the use of gasoline-powered farm equipment or gasoline-powered landscape equipment and may not create differing standards for such equipment or

distinguish such equipment from any electric or similar equipment in a retail, manufacturer, or distributor setting.

(3) This section does not prohibit or limit a municipality from encouraging the use of alternative farm or landscape equipment, such as battery-powered farm or landscape equipment.

Section 5. Paragraph (d) of subsection (2) of section 212.055, Florida Statutes, is amended to read:

212.055 Discretionary sales surtaxes; legislative intent; authorization and use of proceeds.—It is the legislative intent that any authorization for imposition of a discretionary sales surtax shall be published in the Florida Statutes as a subsection of this section, irrespective of the duration of the levy. Each enactment shall specify the types of counties authorized to levy; the rate or rates which may be imposed; the maximum length of time the surtax may be imposed, if any; the procedure which must be followed to secure voter approval, if required; the purpose for which the proceeds may be expended; and such other requirements as the Legislature may provide. Taxable transactions and administrative procedures shall be as provided in s. 212.054.

(2) LOCAL GOVERNMENT INFRASTRUCTURE SURTAX.—

(d) The proceeds of the surtax authorized by this subsection and any accrued interest shall be expended by the school district, within the county and municipalities within the county, or, in the case of a negotiated joint county agreement, within another county, to finance, plan, and construct infrastructure; to acquire any interest in land for public recreation, conservation, or protection of natural resources or to prevent or satisfy private property rights claims resulting from limitations imposed by the designation of an area of critical state concern; to provide loans, grants, or rebates to residential or commercial property owners who make energy efficiency improvements to their residential or commercial property, if a local government ordinance authorizing such use is approved by referendum; or to finance the closure of county-owned or municipally owned solid waste landfills that have been closed or are required to be closed by order of the Department of Environmental Protection. Any use of the proceeds or interest for purposes of landfill closure before July 1, 1993, is ratified. The proceeds and any interest may not be used for the operational expenses of infrastructure, except that a county that has a population of fewer than 75,000 and that is required to close a landfill may use the proceeds or interest for long-term maintenance costs associated with landfill closure. Counties, as defined in s. 125.011, and charter counties may, in addition, use the proceeds or interest to retire or service indebtedness incurred for bonds issued before July 1, 1987, for infrastructure purposes, and for bonds subsequently issued to refund such bonds. Any use of the proceeds or interest for purposes of retiring or servicing indebtedness incurred for refunding bonds before July 1, 1999, is ratified.

1. For the purposes of this paragraph, the term "infrastructure" means:

a. Any fixed capital expenditure or fixed capital outlay associated with the construction, reconstruction, or improvement of public facilities that have a life expectancy of 5 or more years, any related land acquisition, land improvement, design, and engineering costs, and all other professional and related costs required to bring the public facilities into service. For purposes of this sub-subparagraph, the term "public facilities" has the same meaning ~~means facilities~~ as ~~defined~~ in s. 163.3164(43) ~~s. 163.3164(41)~~, s. 163.3221(13), or s. 189.012(5), and includes facilities that are necessary to carry out governmental purposes, including, but not limited to, fire stations, general governmental office buildings, and animal shelters, regardless of whether the facilities are owned by the local taxing authority or another governmental entity.

b. A fire department vehicle, an emergency medical service vehicle, a sheriff's office vehicle, a police department vehicle, or any other vehicle, and the equipment necessary to outfit the vehicle for its official use or equipment that has a life expectancy of at least 5 years.

c. Any expenditure for the construction, lease, or maintenance of, or provision of utilities or security for, facilities, as defined in s. 29.008.

d. Any fixed capital expenditure or fixed capital outlay associated with the improvement of private facilities that have a life expectancy of 5 or more years and that the owner agrees to make available for use on a temporary basis as needed by a local government as a public emergency shelter or a staging area for emergency response equipment during an emergency officially declared by the state or by the local government under s. 252.38. Such improvements are limited to those necessary to comply with current standards for public emergency evacuation shelters. The owner must enter into a written contract with the local government providing the improvement funding to make the private facility available to the public for purposes of emergency shelter at no cost to the local government for a minimum of 10 years after completion of the improvement, with the provision that the obligation will transfer to any subsequent owner until the end of the minimum period.

e. Any land acquisition expenditure for a residential housing project in which at least 30 percent of the units are affordable to individuals or families whose total annual household income does not exceed 120 percent of the area median income adjusted for household size, if the land is owned by a local government or by a special district that enters into a written agreement with the local government to provide such housing. The local government or special district may enter into a ground lease with a public or private person or entity for nominal or other consideration for the construction of the residential housing project on land acquired pursuant to this sub-subparagraph.

f. Instructional technology used solely in a school district's classrooms. As used in this sub-subparagraph, the term "instructional technology" means an interactive device that assists a teacher in instructing a class or a group of students and includes the necessary hardware and software to operate the interactive device. The term also includes support systems in which an interactive device may mount and is not required to be affixed to the facilities.

2. For the purposes of this paragraph, the term "energy efficiency improvement" means any energy conservation and efficiency improvement that reduces consumption through conservation or a more efficient use of electricity, natural gas, propane, or other forms of energy on the property, including, but not limited to, air sealing; installation of insulation; installation of energy-efficient heating, cooling, or ventilation systems; installation of solar panels; building modifications to increase the use of daylight or shade; replacement of windows; installation of energy controls or energy recovery systems; installation of electric vehicle charging equipment; installation of systems for natural gas fuel as defined in s. 206.9951; and installation of efficient lighting equipment.

3. Notwithstanding any other provision of this subsection, a local government infrastructure surtax imposed or extended after July 1, 1998, may allocate up to 15 percent of the surtax proceeds for deposit into a trust fund within the county's accounts created for the purpose of funding economic development projects having a general public purpose of improving local economies, including the funding of operational costs and incentives related to economic development. The ballot statement must indicate the intention to make an allocation under the authority of this subparagraph.

4. Surtax revenues that are shared with eligible charter schools pursuant to paragraph (c) shall be allocated among such schools based on each school's proportionate share of total school district capital outlay full-time equivalent enrollment as adopted by the education estimating conference established in s. 216.136. Surtax revenues must be expended by the charter school in a manner consistent with the allowable uses provided in s. 1013.62(4). All revenues and expenditures shall be accounted for in a charter school's monthly or quarterly financial statement pursuant to s. 1002.33(9). If a school's charter is not renewed or is terminated and the school is dissolved under the provisions of law under which the school was organized, any unencumbered funds received under this paragraph shall revert to the sponsor.

Section 6. Present subsection (19) of section 253.0341, Florida Statutes, is redesignated as subsection (21), and new subsection (19) and subsection (20) are added to that section, to read:

253.0341 Surplus of state-owned lands.—

(19) The Acquisition and Restoration Council shall determine whether any lands surplused by a local governmental entity, as defined in s. 218.72,

on or after January 1, 2024, are suitable for bona fide agricultural purposes, as defined in s. 193.461(3)(b). A local governmental entity may not transfer future development rights for any surplused lands determined to be suitable for bona fide agricultural purposes on or after January 1, 2024.

(20) The Department of Environmental Protection, in coordination with the Department of Agriculture and Consumer Services, shall determine whether any state-owned conservation lands acquired on or after January 1, 2024, are suitable for bona fide agricultural purposes, as defined in s. 193.461(3)(b).

(a) Notwithstanding any other law or rule, the Department of Environmental Protection may surplus state-owned conservation lands acquired on or after January 1, 2024, determined to be suitable for bona fide agricultural purposes.

(b) For all state-owned conservation lands determined to be suitable for bona fide agricultural production and surplused by the Department of Environmental Protection, the department shall retain a rural-lands-protection easement pursuant to s. 570.71(3). All proceeds from the sale of such surplused lands must be deposited into the Incidental Trust Fund within the Department of Agriculture and Consumer Services for less than fee simple land acquisition pursuant to ss. 570.71 and 570.715.

(c) By January 1, 2027, and each January 1 thereafter, the Department of Environmental Protection shall provide a report of state-owned conservation lands surplused pursuant to this subsection to the Board of Trustees of the Internal Improvement Trust Fund.

(d) Designated state forest lands, state park lands, wildlife management areas, or lands within the boundaries of the federally authorized and approved Comprehensive Everglades Restoration Plan may not be surplused pursuant to this subsection.

Section 7. Section 259.1053, Florida Statutes, is amended to read:

259.1053 Babcock Ranch Preserve~~; Babcock Ranch Advisory Group~~.—

(1) SHORT TITLE.—This section may be cited as the "Babcock Ranch Preserve Act."

(2) DEFINITIONS.—As used in this section, the term:

(a) "Babcock Ranch Preserve" and "preserve" mean the lands and facilities acquired in the purchase of the Babcock Crescent B Ranch, as provided in s. 259.1052.

(b) "Commission" means the Fish and Wildlife Conservation Commission.

(c) "Commissioner" means the Commissioner of Agriculture.

(d) "Department" means the Department of Agriculture and Consumer Services.

(e) "Executive director" means the Executive Director of the Fish and Wildlife Conservation Commission.

(f) "Financially self-sustaining" means having management and operation expenditures not more than the revenues collected from fees and other receipts for resource use and development and from interest and invested funds.

(g) "Florida Forest Service" means the Florida Forest Service of the Department of Agriculture and Consumer Services.

(h) "Multiple use" means the management of all of the renewable surface resources of the Babcock Ranch Preserve to best meet the needs of the public, including the use of the land for some or all of the renewable surface resources or related services over areas large enough to allow for periodic adjustments in use to conform to the changing needs and conditions of the preserve while recognizing that a portion of the land will be used for some of the renewable surface resources available on that land. The goal of multiple use is the harmonious and coordinated management of the renewable surface resources without impairing the productivity of the land and considering the relative value of the renewable surface resources, and not necessarily a combination of uses to provide the greatest monetary return or the greatest unit output.

(i) "Sustained yield of the renewable surface resources" means the achievement and maintenance of a high level of annual or regular periodic output of the various renewable surface resources of the preserve without impairing the productivity of the land.

(3) CREATION OF BABCOCK RANCH PRESERVE.—

(a) Upon the date of acquisition of the Babcock Crescent B Ranch, there is created the Babcock Ranch Preserve, which shall be managed in accordance with the purposes and requirements of this section.

(b) The preserve is established to protect and preserve the environmental, agricultural, scientific, scenic, geologic, watershed, fish, wildlife, historic, cultural, and recreational values of the preserve, and to provide for the multiple use and sustained yield of the renewable surface resources within the preserve consistent with this section.

(c) This section does not preclude the use of common varieties of mineral materials such as sand, stone, and gravel for construction and maintenance of roads and facilities within the preserve.

(d) This section does not affect the constitutional responsibilities of the commission in the exercise of its regulatory and executive power with

respect to wild animal life and freshwater aquatic life, including the regulation of hunting, fishing, and trapping within the preserve.

(e) This section does not interfere with or prevent the implementation of agricultural practices authorized by the agricultural land use designations established in the local comprehensive plans of either Charlotte County or Lee County as those plans apply to the Babcock Ranch Preserve.

(f) This section does not preclude the maintenance and use of roads and trails or the relocation of roads in existence on the effective date of this section, or the construction, maintenance, and use of new trails, or any motorized access necessary for the administration of the land contained within the preserve, including motorized access necessary for emergencies involving the health or safety of persons within the preserve.

~~(4) BABCOCK RANCH ADVISORY GROUP.—~~

~~(a) The purpose of the Babcock Ranch Advisory Group is to assist the department by providing guidance and advice concerning the management and stewardship of the Babcock Ranch Preserve.~~

~~(b) The Babcock Ranch Advisory Group shall be comprised of nine members appointed to 5-year terms. Based on recommendations from the Governor and Cabinet, the commission, and the governing boards of Charlotte County and Lee County, the commissioner shall appoint members as follows:~~

~~1. One member with experience in sustainable management of forest lands for commodity purposes.~~

~~2. One member with experience in financial management, budget and program analysis, and small business operations.~~

~~3. One member with experience in management of game and nongame wildlife and fish populations, including hunting, fishing, and other recreational activities.~~

~~4. One member with experience in domesticated livestock management, production, and marketing, including range management and livestock business management.~~

~~5. One member with experience in agriculture operations or forestry management.~~

~~6. One member with experience in hunting, fishing, nongame species management, or wildlife habitat management, restoration, and conservation.~~

~~7. One member with experience in public outreach and education.~~

~~8. One member who is a resident of Lee County, to be designated by the Board of County Commissioners of Lee County.~~

~~9. One member who is a resident of Charlotte County, to be designated by the Board of County Commissioners of Charlotte County.~~

~~Vacancies will be filled in the same manner in which the original appointment was made. A member appointed to fill a vacancy shall serve for the remainder of that term.~~

~~(c) Members of the Babcock Ranch Advisory Group shall:~~

~~1. Elect a chair and vice chair from among the group members.~~

~~2. Meet regularly as determined by the chair.~~

~~3. Serve without compensation but shall receive reimbursement for travel and per diem expenses as provided in s. 112.061.~~

(4)~~(5)~~ MANAGEMENT OF PRESERVE; FEES.—

(a) The department shall assume all authority provided by this section to manage and operate the preserve as a working ranch upon the termination or expiration of the management agreement attached as Exhibit "E" to that certain agreement for sale and purchase approved by the Board of Trustees of the Internal Improvement Trust Fund on November 22, 2005, and by Lee County on November 20, 2005.

(b) Upon assuming management and operation of the preserve, the department shall:

1. Manage and operate the preserve and the uses thereof, including, but not limited to, the activities necessary to administer and operate the preserve as a working ranch; the activities necessary for the preservation and development of the land and renewable surface resources of the preserve; the activities necessary for interpretation of the history of the preserve on behalf of the public; the activities necessary for the management, public use, and occupancy of facilities and lands within the preserve; and the maintenance, rehabilitation, repair, and improvement of property within the preserve.

2. Develop programs and activities relating to the management of the preserve as a working ranch.

3. Establish procedures for entering into lease agreements and other agreements for the use and occupancy of the facilities of the preserve. The procedures shall ensure reasonable competition and set guidelines for determining reasonable fees, terms, and conditions for such agreements.

4. Assess reasonable fees for admission to, use of, and occupancy of the preserve to offset costs of operating the preserve as a working ranch. These

fees are independent of fees assessed by the commission for the privilege of hunting, fishing, or pursuing outdoor recreational activities within the preserve, and shall be deposited into the Incidental Trust Fund of the Florida Forest Service, subject to appropriation by the Legislature.

(c) The commission, in cooperation with the department, shall:

1. Establish and implement public hunting and other fish and wildlife management activities. Tier I and Tier II public hunting opportunities shall be provided consistent with the management plan and the recreation master plan. Tier I public hunting shall provide hunting opportunities similar to those offered on wildlife management areas with an emphasis on youth and family-oriented hunts. Tier II public hunting shall be provided specifically by fee-based permitting to ensure compatibility with livestock grazing and other essential agricultural operations on the preserve.

2. Establish and administer permit fees for Tier II public hunting to capitalize on the value of hunting on portions of the preserve and to help ensure the preserve is financially self-sufficient. The fees shall be deposited into the State Game Trust Fund of the Fish and Wildlife Conservation Commission to be used to offset the costs of providing public hunting and to support fish and wildlife management and other land management activities on the preserve.

(d) The Board of Trustees of the Internal Improvement Trust Fund or its designated agent may:

1. Negotiate directly with and enter into such agreements, leases, contracts, and other arrangements with any person, firm, association, organization, corporation, or governmental entity, including entities of federal, state, and local governments, as are necessary and appropriate to carry out the purposes and activities authorized by this section.

2. Grant privileges, leases, concessions, and permits for the use of land for the accommodation of visitors to the preserve, provided no natural curiosities or objects of interest shall be granted, leased, or rented on such terms as shall deny or interfere with free access to them by the public. Such grants, leases, and permits may be made and given without advertisement or securing competitive bids. Such grants, leases, or permits may not be assigned or transferred by any grantee without consent of the Board of Trustees of the Internal Improvement Trust Fund or its designated agent.

(5)~~(6)~~ DISSOLUTION OF BABCOCK RANCH, INC.—Upon dissolution of the Babcock Ranch, Inc., all statutory powers, duties, functions, records, personnel, property, and unexpended balances of appropriations, allocations, and other funds of the corporation shall be transferred to the Department of Agriculture and Consumer Services unless otherwise provided by law. Any cash balances of funds shall revert to the Incidental Trust Fund of the Florida Forest Service.

Section 8. Paragraph (a) of subsection (2) of section 287.1351, Florida Statutes, is amended, and subsection (3) of that section is republished, to read:

287.1351 Suspended vendors; state contracts.—

(2)(a) A vendor that is in default on any contract with an agency, has failed to timely compensate its subcontractors or suppliers, or has otherwise repeatedly demonstrated a recent inability to fulfill the terms and conditions of previous state contracts or to adequately perform its duties under those contracts may not submit a bid, proposal, or reply to an agency or enter into or renew a contract to provide any goods or services to an agency after its placement, pursuant to this section, on the suspended vendor list.

(3) An agency shall notify the department of any vendor that has met the grounds for suspension described in paragraph (2)(a). The agency must provide documentation to the department evidencing the vendor's default or other grounds for suspension. The department shall review the documentation provided and determine whether good cause exists to remove the vendor from the vendor list and to place it on the suspended vendor list. If good cause exists, the department must notify the vendor in writing of its intent to remove the vendor from the vendor list and of the vendor's right to an administrative hearing and the applicable procedures and time requirements for any such hearing. If the vendor does not request an administrative hearing, the department must enter a final order removing the vendor from the vendor list. A vendor may not be removed from the vendor list without receiving an individual notice of intent from the department.

Section 9. Paragraph (c) is added to subsection (4) of section 322.12, Florida Statutes, to read:

322.12 Examination of applicants.—

(4) The examination for an applicant for a commercial driver license shall include a test of the applicant's eyesight given by a driver license examiner designated by the department or by a licensed ophthalmologist, optometrist, or physician and a test of the applicant's hearing given by a driver license examiner or a licensed physician. The examination shall also include a test of the applicant's ability to read and understand highway signs regulating, warning, and directing traffic; his or her knowledge of the traffic laws of this state pertaining to the class of motor vehicle which he or she is applying to be licensed to operate, including laws regulating driving under the influence of alcohol or controlled substances, driving with an unlawful blood-alcohol level, and driving while intoxicated; his or her knowledge of the effects of alcohol and controlled substances and the dangers of driving a motor vehicle after having consumed alcohol or controlled substances; and his or her knowledge of any special skills, requirements, or precautions necessary for the safe operation of the class of vehicle which he or she is applying to be licensed to operate. In addition, the examination shall include an actual demonstration of the applicant's ability to exercise ordinary and

reasonable control in the safe operation of a motor vehicle or combination of vehicles of the type covered by the license classification which the applicant is seeking, including an examination of the applicant's ability to perform an inspection of his or her vehicle.

(c) An applicant for a commercial driver license who receives unauthorized assistance from another person in completing the portion of the examination which tests the applicant's ability to read and understand highway signs regulating, warning, and directing traffic or his or her knowledge of the traffic laws of this state pertaining to the class of motor vehicle for which he or she is applying to be licensed to operate, including laws regulating driving under the influence of alcohol or controlled substances, driving with an unlawful blood-alcohol level, and driving while intoxicated, commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

Section 10. Section 322.36, Florida Statutes, is amended to read:

322.36 Permitting unauthorized operator to drive.—

(1) A person may not authorize or knowingly permit a motor vehicle owned by him or her or under his or her dominion or control to be operated upon any highway or public street except by a person who is duly authorized to operate a motor vehicle under this chapter.

(2) A person may not knowingly or willfully provide unauthorized assistance to an applicant for the examination required to hold a commercial driver license pursuant to s. 322.12(4).

(3) A ~~Any~~ person who violates this section commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083. If a person violates this section by knowingly loaning a vehicle to a person whose driver license is suspended and if that vehicle is involved in an accident resulting in bodily injury or death, the driver license of the person violating this section must ~~shall~~ be suspended for 1 year.

Section 11. Section 377.71, Florida Statutes, is repealed.

Section 12. Section 377.711, Florida Statutes, is repealed.

Section 13. Section 377.712, Florida Statutes, is repealed.

Section 14. Present paragraphs (a) and (b) of subsection (3) of section 403.0855, Florida Statutes, are redesignated as paragraphs (b) and (c), respectively, a new paragraph (a) is added to that subsection, and subsections (2) and (4) of that section are amended, to read:

403.0855 Biosolids management.—

(2) The department shall adopt rules for biosolids management. ~~Rules adopted by the department pursuant to this section may not take effect until ratified by the Legislature.~~

(3) For a new land application site permit or a permit renewal issued after July 1, 2020, the permittee of a biosolids land application site shall:

(a) Ensure that only Class AA biosolids are applied to the soil.

(4)(a) All permits shall comply with the requirements of paragraph (3)(a) ~~subsection (3)~~ by July 1, 2028 ~~2022~~.

(b) Local governments that do not transport biosolids for land application outside of their respective county boundaries shall comply with the requirements of paragraph (3)(a) by July 1, 2031. This paragraph may not be construed to prohibit the transportation of Class B biosolids by a local government outside of its boundaries to a Class AA biosolids treatment facility or waste-to-energy facility located within the boundaries of another local government.

Section 15. Present subsection (5) of section 482.071, Florida Statutes, is redesignated as subsection (6), and a new subsection (5) is added to that section, to read:

482.071 Licenses.—

(5) Each person applying for a pest control business license or renewal thereof who will offer and perform fumigations as a part of his or her regular business operations must furnish to the department a certificate of insurance that meets the requirement for minimum financial responsibility for bodily injury and property damage, consisting of:

(a) Bodily injury coverage of $1 million per person and $2 million per occurrence; and property damage coverage of $1 million per occurrence and $2 million in the aggregate; or

(b) Combined single-limit coverage of $2 million in the aggregate.

Section 16. Subsection (7) of section 482.161, Florida Statutes, is amended to read:

482.161 Disciplinary grounds and actions; reinstatement.—

(7) The department, pursuant to chapter 120, in addition to or in lieu of any other remedy provided by state or local law, may impose an administrative fine in the Class III ~~II~~ category pursuant to s. 570.971 for a violation of this chapter or of the rules adopted pursuant to this chapter. In determining the amount of fine to be levied for a violation, the following factors shall be considered:

(a) The severity of the violation, including the probability that the death, or serious harm to the health or safety, of any person will result or has resulted; the severity of the actual or potential harm; and the extent to which this chapter or the rules adopted pursuant to this chapter were violated;

(b) Any actions taken by the licensee or certified operator in charge, or limited certificateholder, to correct the violation or to remedy complaints;

(c) Any previous violations of this chapter or of the rules adopted pursuant to this chapter; and

(d) The cost to the department of investigating the violation.

Section 17. Subsections (3) and (5) of section 482.165, Florida Statutes, are amended to read:

482.165 Unlicensed practice of pest control; cease and desist order; injunction; civil suit and penalty.—

(3) In addition to or in lieu of any remedy provided under subsection (2), the department may institute a civil suit in circuit court to recover a civil penalty for any violation for which the department may issue a notice to cease and desist under subsection (2). The civil penalty shall be in the Class III ~~II~~ category pursuant to s. 570.971 for each offense. The court may also award to the prevailing party court costs and reasonable attorney fees.

(5) In addition to or in lieu of any remedy provided under subsections (2) and (3), the department may, even in the case of a first offense, impose a fine not less than twice the cost of a pest control business license, but not more than a fine in the Class III ~~II~~ category pursuant to s. 570.971, upon a determination by the department that a person is in violation of subsection (1). For the purposes of this subsection, the lapse of a previously issued license for a period of less than 1 year is not considered a violation.

Section 18. Subsections (20) and (21) are added to section 489.105, Florida Statutes, to read:

489.105 Definitions.—As used in this part:

(20) "Subcontractor" has the same meaning as in s. 558.002.

(21) "Supplier" has the same meaning as in s. 558.002.

Section 19. Section 489.1295, Florida Statutes, is created to read:

489.1295 Prohibition against nonpayment.—

(1) A licensed contractor must compensate a subcontractor or supplier, unless there is a bona fide dispute regarding the amount due, if any, for services, labor, or materials:

(a) Within 45 days after receiving payment for the services performed or materials supplied by the subcontractor or supplier; or

(b) In accordance with the terms of the contract for such services, labor, or materials.

(2) A licensed contractor who knowingly or willfully violates this section is subject to disciplinary proceedings as provided in s. 489.129.

Section 20. Subsection (6) of section 500.04, Florida Statutes, is amended to read:

500.04 Prohibited acts.—The following acts and the causing thereof within the state are prohibited:

(6) The obstruction of or refusal to permit entry or inspection, or to permit the taking of a sample, as authorized by s. 500.147.

Section 21. Section 500.81, Florida Statutes, is repealed.

Section 22. Subsection (5) of section 500.93, Florida Statutes, is amended to read:

500.93 Mislabeling of plant-based products as milk, meat, or poultry.

(5) The Department of Agriculture and Consumer Services shall notify the Division of Law Revision upon the enactment into law by any 11 of the group of 14 states composed of Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia of the mandatory labeling requirements pursuant to paragraphs (2)(a), (3)(a), and (4)(a) ~~subsections (2) and (3)~~.

Section 23. Section 501.013, Florida Statutes, is amended to read:

501.013 Health studios; exemptions.—

(1) The following businesses or activities may be declared exempt from ~~the provisions of~~ ss. 501.012-501.019 upon the filing of an affidavit with the department establishing that the stated qualifications are met:

(a)~~(1)~~ A bona fide nonprofit organization which has been granted tax-exempt status by the Internal Revenue Service.

(b)~~(2)~~ A gymnastics school which engages only in instruction and training and in which exercise is only incidental to such instruction and training.

(c)~~(3)~~ A golf, tennis, or racquetball club in which sports play is the only activity offered by the club. If the facility offers the use of physical exercise equipment, this exemption shall not apply.

(d)~~(4)~~ A program or facility which is offered and used solely for the purpose of dance, aerobic exercise, or martial arts, and which utilizes no physical exercise equipment.

(e)~~(5)~~ A country club that has as its primary function the provision of a social life and recreational amenities to its members, and for which a program of physical exercise is merely incidental to membership. As used in this paragraph ~~subsection~~, the term "country club" means a facility that offers its members a variety of services that may include, but need not be limited to, social activities; dining, banquet, catering, and lounge facilities; swimming; yachting; golf; tennis; card games such as bridge and canasta; and special programs for members' children. Upon the filing of an affidavit with the department establishing that the stated qualifications of this paragraph ~~subsection~~ were met before July 1, 1997, this paragraph ~~subsection~~ will apply retroactively to the date that the country club met these qualifications.

(f)~~(6)~~ A program or facility that is offered by an organization for the exclusive use of its employees and their family members.

(2) In addition to the businesses and activities listed in subsection (1), the department may exempt any other business or activity not in existence as of July 1, 2026, from ss. 501.012-501.019.

Section 24. Section 501.062, Florida Statutes, is created to read:

501.062 Unauthorized commercial solicitation; legislative intent; definitions; prohibited acts; penalties.—

(1) LEGISLATIVE INTENT.—It is the intent of the Legislature to protect, preserve, and promote the safety, welfare, and peace of the citizens of this state by adopting measures to reduce the threat to private property rights, including the right to exclude and to be free from trespass of unauthorized commercial solicitation on private property when noticed by the property owner. It is the intent of this section to protect such private property rights by creating a uniform standard for notifying individuals or groups of individuals that commercial solicitation is prohibited on private property.

(2) DEFINITIONS.—As used in this section, the term:

(a) "Commercial solicitation" means the act of attempting to sell goods or services, or to raise funds for a commercial purpose, through direct or indirect contact with individuals, including, but not limited to, using words, body gestures, or signs, on behalf of a business or commercial entity.

(b) "Dwelling" has the same meaning as in s. 810.011(2).

(3) PROHIBITED ACTS.—A person may not engage in commercial solicitation on any dwelling that clearly and prominently displays a sign that is no less than 8.5 by 11 inches, is visible to any person approaching the

dwelling, and clearly displays a statement which identifies the dwelling as private property on which commercial solicitation is prohibited, in substantially the following manner with letters at least 1 inch in height:

THIS DWELLING IS DESIGNATED PRIVATE PROPERTY. NO COMMERCIAL SOLICITATION IS PERMITTED PURSUANT TO SECTION 501.062, FLORIDA STATUTES.

(4) PENALTIES.—A person who violates subsection (3) commits a noncriminal violation, punishable as provided in s. 775.083. A person who commits a second or subsequent violation commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

Section 25. Subsection (50) is added to section 570.07, Florida Statutes, to read:

570.07 Department of Agriculture and Consumer Services; functions, powers, and duties.—The department shall have and exercise the following functions, powers, and duties:

(50) Notwithstanding s. 20.04(7), to reorganize departmental units upon the approval of the commissioner.

Section 26. Paragraph (c) is added to subsection (3) of section 570.822, Florida Statutes, to read:

570.822 Agriculture and Aquaculture Producers Emergency Recovery Loan Program.—

(3) ELIGIBLE APPLICANTS.—To be eligible for the program, an applicant must:

(c) Be a United States citizen and a legal resident of this state before or on the date of the declared emergency. If the applicant is an entity as defined in s. 605.0102, the entity must be wholly owned and operated in the United States and possess an active certificate of status issued by the Department of State pursuant to chapter 605.

Section 27. Section 570.832, Florida Statutes, is created to read:

570.832 Florida Native Seed Research and Marketing Program.—The Florida Wildflower Foundation, Inc., in coordination with the department, shall, subject to appropriation, establish the Florida Native Seed Research and Marketing Program to conduct research designed to expand the availability and uses of native seeds and strengthen the market position of this state's native seed industry through marketing campaigns and promotions in this state and across the nation.

Section 28. Section 570.846, Florida Statutes, is created to read:

570.846 Florida Food Animal and Equine Veterinary Medicine Loan Repayment Program.—

(1) PURPOSE.—To encourage specialized and qualified veterinary professionals to practice in this state, to retain the employment of such professionals in this state, and to promote the care and treatment of food animals and equine animals, there is established the Florida Food Animal and Equine Veterinary Medicine Loan Repayment Program. The purpose of the program is to authorize the department to make payments that offset loans incurred, for up to three new eligible candidates annually, for studies leading to a veterinary degree with a specialization in food animal or equine veterinary medicine.

(2) DEFINITIONS.—As used in this section, the term:

(a) "Equine" means a species of animal belonging to the taxonomic family *equidae*, which includes horses and donkeys.

(b) "Food animal" means a species of animal raised for the human food supply. Food animals include cattle, swine, sheep, goat, poultry, aquaculture, and apiary species.

(c) "Food animal and equine animal veterinary medicine" means a veterinary medical practice that encompasses medical care, disease prevention, and consultation on the feeding, housing, and overall flock, herd, or equine health management.

(d) "Food animal or equine veterinarian" means a veterinarian working in food and equine animal veterinary medicine who focuses on the management and health of such animals and who spends a minimum of 20 hours per week on food animal species or equine animal species care and treatment.

(3) ELIGIBILITY.—To be eligible for the program, a candidate must have graduated from an American Veterinary Medical Association-accredited college of veterinary medicine, have received a Florida veterinary medical license, have obtained a Category II Accreditation from the United States Department of Agriculture, and be a practicing food animal or equine animal veterinarian in this state.

(4) FUNDING.—Subject to legislative appropriation, the department may make loan principal repayments of up to $25,000 per eligible candidate per year. Loan principal repayments may be made on behalf of each eligible candidate each year for up to 5 years. The department may select up to three new eligible candidates each year. All repayments are contingent upon continued proof of employment in this state as a practicing food animal or equine animal veterinarian.

(5) DUPLICATION OF FINANCIAL ASSISTANCE.—An eligible candidate receiving financial assistance from the federal veterinary medicine

loan repayment program as established in 7 U.S.C. part 3151a is ineligible to receive financial assistance from the program under this section.

(6) RULEMAKING.—The department may adopt any rule necessary for the administration of the program.

Section 29. Subsection (1) of section 570.85, Florida Statutes, is amended to read:

570.85 Agritourism.—

(1) It is the intent of the Legislature to promote agritourism as a way to support bona fide agricultural production by providing a stream of revenue and by educating the general public about the agricultural industry. It is also the intent of the Legislature to eliminate duplication of regulatory authority over agritourism as expressed in this section. Except as otherwise provided for in this section, and notwithstanding any other law, a local government may not adopt or enforce a local ordinance, regulation, rule, or policy that prohibits, restricts, regulates, or otherwise limits an agritourism activity on land classified as agricultural land under s. 193.461, and may not require a property owner to obtain a rural event venue permit or license. This subsection does not limit the powers and duties of a local government to address substantial offsite impacts of agritourism activities or an emergency as provided in chapter 252.

Section 30. Subsection (6) is added to section 570.86, Florida Statutes, to read:

570.86 Definitions.—As used in ss. 570.85-570.89, the term:

(6) "Rural event venue" means a venue located on property classified as agricultural pursuant to s. 193.461 and used for special functions, such as weddings, receptions, corporate meetings, or similar gatherings.

Section 31. Subsection (7) of section 573.112, Florida Statutes, is amended to read:

573.112 Advisory council.—

(7) Notwithstanding any provision of this section, the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., a direct-support organization of the Department of Agriculture and Consumer Services ~~University of Florida~~ established pursuant to s. 570.691 ~~s. 1004.28~~, shall serve as the advisory council for a citrus research marketing order, provide the department with advice on administering the order, and, in accordance with the order, conduct citrus research and perform other duties assigned by the department. Notwithstanding s. 570.691 ~~s. 1004.28(3)~~ or any provision of this section, the foundation's board of directors shall be composed of the Florida State Plant Health Inspection Service Director and, appointed by the Commissioner of Agriculture, 7 members who are ~~13 members, including 10~~ citrus growers, ~~2 representatives of the university's Institute of Food and~~


CODING: Words ~~stricken~~ are deletions; words underlined are additions.

~~Agricultural Sciences,~~ and 1 member who is a Florida citrus nursery representative. Members of the board of directors shall serve without compensation but ~~appointed by the Commissioner of Agriculture, who~~ are each entitled to reimbursement from the foundation for per diem and travel expenses as provided in s. 112.061.

Section 32. Subsection (32) of section 581.031, Florida Statutes, is amended to read:

581.031 Department; powers and duties.—The department has the following powers and duties:

(32) To conduct or cause to be conducted research projects, including, but not limited to, citrus canker and citrus greening, which are recommended by the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., within the limits of appropriations made specifically for such purpose.

Section 33. Subsection (4) of section 583.01, Florida Statutes, is amended to read:

583.01 Definitions.—For the purpose of this chapter, unless elsewhere indicated, the term:

(4) "Dealer" means a person, firm, or corporation, including a producer, processor, retailer, or wholesaler, that sells, offers for sale, or holds for the purpose of sale in this state 30 dozen or more eggs or its equivalent in any one week, or more than 20,000 ~~384~~ dressed birds annually ~~in any one week~~.

Section 34. Section 590.02, Florida Statutes, is amended to read:

590.02 Florida Forest Service; powers, authority, and duties; liability; building structures; Withlacoochee and Welaka Training Centers ~~Center~~.

(1) The Florida Forest Service has the following powers, authority, and duties to:

(a) Enforce the provisions of this chapter;

(b) Prevent, detect, and suppress wildfires wherever they may occur on public or private land in this state and do all things necessary in the exercise of such powers, authority, and duties;

(c) Provide firefighting crews, who shall be under the control and direction of the Florida Forest Service and its designated agents;

(d) Appoint center managers, forest area supervisors, forestry program administrators, a forest protection bureau chief, a forest protection assistant bureau chief, a field operations bureau chief, deputy chiefs of field operations, district managers, forest operations administrators, senior forest rangers, investigators, forest rangers, firefighter rotorcraft pilots, and other employees who may, at the Florida Forest Service's discretion, be

certified as forestry firefighters pursuant to s. 633.408(8). Other law notwithstanding, center managers, district managers, forest protection assistant bureau chief, and deputy chiefs of field operations have Selected Exempt Service status in the state personnel designation;

(e) Develop a training curriculum for wildland firefighters which must contain a minimum of 40 hours of structural firefighter training, a minimum of 40 hours of emergency medical training, and a minimum of 376 hours of wildfire training;

(f) Pay the cost of the initial commercial driver license examination fee, and renewal for those employees whose position requires them to operate equipment requiring a license. This paragraph is intended to be an authorization to the department to pay such costs, not an obligation;

(g) Provide fire management services and emergency response assistance and set and charge reasonable fees for performance of those services. Moneys collected from such fees shall be deposited into the Incidental Trust Fund of the Florida Forest Service;

(h) Require all state, regional, and local government agencies operating aircraft in the vicinity of an ongoing wildfire to operate in compliance with the applicable state Wildfire Aviation Plan;

(i) Authorize broadcast burning, prescribed burning, pile burning, and land clearing debris burning to carry out the duties of this chapter and the rules adopted thereunder; and

(j) Make rules to accomplish the purposes of this chapter.

(2) The Florida Forest Service's employees, and the firefighting crews under their control and direction, may enter upon any lands for the purpose of preventing, detecting, and suppressing wildfires and investigating smoke complaints or open burning not in compliance with authorization and to enforce the provisions of this chapter.

(3) Employees of the Florida Forest Service and of federal, state, and local agencies, and all other persons and entities that are under contract or agreement with the Florida Forest Service to assist in firefighting operations as well as those entities, called upon by the Florida Forest Service to assist in firefighting may, in the performance of their duties, set counterfires, remove fences and other obstacles, dig trenches, cut firelines, use water from public and private sources, and carry on all other customary activities in the fighting of wildfires without incurring liability to any person or entity. The manner in which the Florida Forest Service monitors a smoldering wildfire or smoldering prescribed fire or fights any wildfire are planning level activities for which sovereign immunity applies and is not waived.

(4)(a) The department may build structures, notwithstanding chapters 216 and 255, not to exceed a cost of $50,000 per structure from existing

resources on forest lands, federal excess property, and unneeded existing structures. These structures must meet all applicable building codes.

(b) Notwithstanding s. 553.80(1), the department shall exclusively enforce the Florida Building Code as it pertains to wildfire, law enforcement, and other Florida Forest Service facilities under the jurisdiction of the department.

(5) The Florida Forest Service shall organize its operational units to most effectively prevent, detect, and suppress wildfires, and to that end, may employ the necessary personnel to manage its activities in each unit. The Florida Forest Service may construct lookout towers, roads, bridges, fire-lines, and other facilities and may purchase or fabricate tools, supplies, and equipment for firefighting. The Florida Forest Service may reimburse the public and private entities that it engages to assist in the suppression of wildfires for their personnel and equipment, including aircraft.

(6) The Florida Forest Service shall undertake privatization alternatives for fire prevention activities including constructing fire lines and conducting prescribed burns and, where appropriate, entering into agreements or contracts with the private sector to perform such activities.

(7) The Florida Forest Service may organize, staff, equip, and operate the Withlacoochee and Welaka Training Centers ~~Center~~. The centers ~~center~~ shall serve as sites ~~a site~~ where fire and forest resource managers can obtain current knowledge, techniques, skills, and theory as they relate to their respective disciplines, and the centers:~~.~~

(a) ~~The center~~ May establish cooperative efforts involving federal, state, and local entities; hire appropriate personnel; and engage others by contract or agreement with or without compensation to assist in carrying out the training and operations of the centers ~~center~~.

(b) ~~The center~~ Shall provide wildfire suppression training opportunities for rural fire departments, volunteer fire departments, and other local fire response units.

(c) ~~The center~~ Shall focus on curriculum related to, but not limited to, fuel reduction, an incident management system, prescribed burning certification, multiple-use land management, water quality, forest health, environmental education, and wildfire suppression training for structural firefighters.

(d) ~~The center~~ May assess appropriate fees for food, lodging, travel, course materials, and supplies in order to meet their ~~its~~ operational costs and may grant free meals, room, and scholarships to persons and other entities as determined by the Florida Forest Service, regardless of whether training occurs at the Withlacoochee Training Center or Welaka Training Center or at another location ~~in exchange for instructional assistance~~.

(8)(a) The Cross City Work Center shall be named the L. Earl Peterson Forestry Station. This is to honor Mr. L. Earl Peterson, Florida's sixth state forester, whose distinguished career in state government has spanned 44 years, and who is a native of Dixie County.

(b) The Madison Forestry Station shall be named the Harvey Greene Sr. Forestry Station. This is to honor Mr. Harvey Greene Sr., a World War I veteran and pioneer in forestry in Madison County. In 1947, Mr. Harvey Greene Sr. offered to give the land on which the forestry station is located to the state; however, at that time, the state could not accept donations of land. Instead, Mr. Harvey Greene Sr. sold the land to the state and, with the proceeds of the sale, purchased forestry equipment to be used by the citizens of Madison County to plant trees and fight wildfires.

(c) The Bonifay Forestry Station shall be named the John Michael Mathis Forestry Station. This is to honor the late Mr. John Michael Mathis, the Chipola Forestry Center manager whose distinguished career spanned 18 years, and who received many awards for his service, including commendation for leadership in wildfire mitigation for his service during Hurricane Michael. Mr. John Michael Mathis was a proud husband, father, forester, and friend.

(9)(a) Notwithstanding ss. 273.055 and 287.16, the department may retain, transfer, warehouse, bid, destroy, scrap, or otherwise dispose of surplus equipment and vehicles that are used for wildland firefighting.

(b) All money received from the disposition of state-owned equipment and vehicles that are used for wildland firefighting shall be retained by the department. Money received pursuant to this section is appropriated for and may be disbursed for the acquisition of exchange and surplus equipment used for wildland firefighting, and for all necessary operating expenditures related to such equipment, in the same fiscal year and the fiscal year following the disposition. The department shall maintain records of the accounts into which the money is deposited.

(10)(a) Notwithstanding the provisions of s. 252.38, the Florida Forest Service has exclusive authority to require and issue authorizations for broadcast burning and agricultural and silvicultural pile burning. An agency, commission, department, county, municipality, or other political subdivision of the state may not adopt or enforce laws, regulations, rules, or policies pertaining to broadcast burning or agricultural and silvicultural pile burning.

(b) The Florida Forest Service may delegate to a county, municipality, or special district its authority:

1. As delegated by the Department of Environmental Protection pursuant to ss. 403.061(29) and 403.081, to manage and enforce regulations pertaining to the burning of yard trash in accordance with s. 590.125(6).

2. To manage the open burning of land clearing debris in accordance with s. 590.125.

Section 35. Section 595.421, Florida Statutes, is created to read:

595.421 Farmers Feeding Florida Program.—There is established the Farmers Feeding Florida Program to coordinate with Feeding Florida, or its successor entity, for the acquisition, transportation, and distribution of non-Emergency Food Assistance Program fresh food products for the benefit of residents who are food insecure due to a lack of local food resources, accessibility, and affordability.

(1) In order to implement the program, Feeding Florida shall:

(a) Enter into an agreement with the department to provide, at a minimum, all of the following services:

1. Transportation of non-Emergency Food Assistance Program fresh food products using owned vehicles or contracted commercial vehicles.

2. Coordination of the purchase and pickup of food from the purchase location and delivery to the distribution location.

(b) Submit monthly reports to the department, beginning July 1, 2026, which include, at a minimum, all of the following:

1. A detailed record of the amount of food purchased, measured per pound and itemized according to its commodity type.

2. Food purchase locations.

3. Food purchase dates.

4. The date of delivery and locations to which the food was distributed.

(c) Submit quarterly reports, beginning July 1, 2026, to the chairs of the legislative appropriations committees, including all of the following information:

1. A detailed record of the amount of food distributed, measured per pound and itemized according to its commodity type.

2. The distribution locations.

3. An itemized list of the types of commodities distributed.

(2) Foods purchased by Feeding Florida through the program are restricted to charitable purposes for hunger relief and may not reenter the wholesale, retail, or secondary market.

(3) Feeding Florida may not, in implementing this section, allow a candidate for elective office to host a food distribution event during the

period of time between the last day of the election qualifying period and the date of the election if the candidate is opposed for election or reelection at the time of the event. This subsection does not apply if the event is in response to a declared state of emergency.

Section 36. Present paragraph (c) of subsection (7) of section 597.004, Florida Statutes, is redesignated as paragraph (d) and amended, a new paragraph (c) is added to that subsection, and paragraph (a) of subsection (2) of that section is amended, to read:

597.004 Aquaculture certificate of registration.—

(2) RULES.—

(a) The department, in consultation with the Department of Environmental Protection, the water management districts, environmental groups, and representatives from the affected farming groups, shall adopt rules to:

1. Specify the requirement of best management practices to be implemented by holders of aquaculture certificates of registration.

2. Establish procedures for holders of aquaculture certificates of registration to submit the notice of intent to comply with best management practices.

3. Establish schedules for implementation of best management practices, and of interim measures that can be taken prior to adoption of best management practices. Interim measures may include the continuation of regulatory requirements in effect on June 30, 1998.

4. Establish a system to assure the implementation of best management practices, including recordkeeping requirements.

5. Require any facility that cultures *Micropterus salmoides* ~~*floridanus*~~ to maintain stock acquisition documentation or records of genetic testing.

(7) REGISTRATION AND RENEWALS.—

(c) The department may not renew a certificate of registration for a facility that is not compliant with this section unless documentation of corrective action is provided with the renewal application.

(d)~~(c)~~ A ~~Any~~ person whose certificate of registration has been revoked or suspended must reapply to the department for certification. A person, a company, or an entity, or a principal of a company or an entity whose certificate of registration has been revoked, may not reapply for a period of 3 years.

Section 37. Paragraph (a) of subsection (5) of section 597.010, Florida Statutes, is amended to read:

597.010 Shellfish regulation; leases.—

(5) LEASES IN PERPETUITY; RENT.—

(a) All leases issued previously under ~~the provisions of~~ s. 379.2525 shall be enforced under the authority of this chapter, notwithstanding any other law to the contrary, and shall continue in perpetuity under such restrictions as stated in the lease agreement. The annual rental fee charged for all leases shall consist of the minimum rate of $15 per acre, or any fraction of an acre, per year and may ~~shall~~ be adjusted on January 1, 1995, and every 5 years thereafter, based on the 5-year average change in the Consumer Price Index. Rent must ~~shall~~ be paid in advance of January 1 of each year or, in the case of a new lease, at the time of signing, regardless of who holds the lease.

Section 38. Paragraphs (b) and (c) of subsection (1) of section 599.012, Florida Statutes, are amended to read:

599.012 Florida Wine Trust Fund; creation.—

(1) There is established the Florida Wine Trust Fund within the Department of Agriculture and Consumer Services. The department shall use the moneys deposited in the trust fund pursuant to subsection (2) to do all the following:

(b) Promote wine ~~viticulture~~ products manufactured from products grown in the state.

(c) Provide grants for wine and viticultural research.

Section 39. Subsection (3) of section 601.13, Florida Statutes, is amended to read:

601.13 Citrus research; administration by Department of Citrus; appropriation.—

(3) An entity that solicits research proposals and awards funding for those proposals expending funds received from the State Treasury on citrus production research conducted pursuant to chapter 573, as recommended by the Citrus Research and Field Trial ~~Development~~ Foundation, Inc., or conducted through contract with the department shall deliver a report that includes all of the following information to the commission biannually and at the request of the commission:

(a) Project plans selected for funding.

(b) The financial status of the projects.

(c) Current findings of the funded research.

(d) Availability of citrus products or application of growers' practices found through funded research.

(e) The status of the commercialization process of such products or practices.

Section 40. Section 616.001, Florida Statutes, is amended to read:

616.001 Definitions.—As used in this chapter, the term:

(1) "Annual public fair" means a ~~community, county, district, regional, or state~~ fair that is held and conducted by a fair association and permitted by the department pursuant to s. 616.15.

(2) "Authority" means the Florida State Fair Authority.

(3) ~~"Community fair" means an annual public fair that serves an area of less than an entire county, has exhibits that are in accordance with s. 616.17, and gives premiums or awards to exhibitors. Agricultural products shall be produced in the community the exhibit represents. The majority of the board of directors of the fair shall reside, be employed, or operate a business in the community the fair represents.~~

~~(4)~~ "Concession" means use by a fair association, or a grant, lease, or license to a third party, of a portion of the land under the ownership, custody, or control of a fair association for specific uses, or the right to enter upon the land for specific purposes, such as providing rides, games, food, beverage, merchandise for sale, exhibits, projects, activities, events, programs, or other uses authorized in this chapter.

~~(5) "County fair" means an annual public fair that serves an entire county and provides exhibitors with premiums or awards for exhibits that are in accordance with s. 616.17. Agricultural products must be typical of those produced in the county the exhibit represents. The majority of the board of directors of the fair shall reside, be employed, or operate a business in the county that the fair association represents.~~

(4)~~(6)~~ "Department" means the Department of Agriculture and Consumer Services.

~~(7) "District fair" means an annual public fair that serves at least five counties and has exhibits that meet the requirements of s. 616.17. A district fair shall pay at least $25,000 in cash premiums or awards to exhibitors. Agricultural products must be typical of those produced in the counties the exhibit represents. Livestock may originate from outside the district, but must be registered in the exhibitor's name at least 30 days before the opening day of the fair. Each county is encouraged to have proportionate exhibits, typical of its respective natural resources. Each county shall have exhibits representing basic resources in agriculture and industry.~~

(5)~~(8)~~ "Entry" means one item entered for competition or show. An entry may constitute an exhibit, depending upon the regulations stated in the premium book.

(6)~~(9)~~ "Exhibit" means one or more entries entered for exhibition and constituting a unit. An exhibit may consist of one or more entries, depending upon the regulations stated in the premium book. The term includes parades

and displays of articles or a collection of articles, whether static, interactive, or dynamic, by a fair association or a third party contracting with a fair association, such as exhibits of animals, art, housewares, or motor vehicles.

(7)~~(10)~~ "Exhibitor" means an individual, a group of individuals, or a business, including a fair association or third party contracting with a fair association, which has an exhibit.

(8)~~(11)~~ "Fair association" or "association" means an association not for profit incorporated under this chapter for the purpose of conducting and operating public fairs or expositions.

(9)~~(12)~~ "Public fair or exposition" means a project, activity, event, or program, and use by a fair association, including, but not limited to, the annual public fair, which serves the purposes specified in s. 616.08 and benefits and develops the educational, agricultural, horticultural, livestock, charitable, historical, civic, cultural, scientific, and other resources of this state, or any county, municipality, or other community in this state.

~~(13) "Regional fair" or "interstate fair" means an annual public fair of this state and other states in which fair exhibits meet the requirements of s. 616.17. Agricultural products must be typical of those produced in the area the exhibit represents.~~

(10)~~(14)~~ "Specialized show" means a show or an exhibition exhibiting and emphasizing livestock or poultry, or a fruit or vegetable festival, and must meet the minimum exhibit requirements specified in s. 616.17. ~~A specialized show may qualify under one of the definitions in subsections (3), (5), (7), and (15).~~

(11)~~(15)~~ "State fair" means an annual public fair that serves the entire state. ~~Exhibits must comply with s. 616.17, and cash premiums or awards may be given to exhibitors.~~

Section 41. Section 616.01, Florida Statutes, is amended to read:

616.01 Requirements for ~~Number of persons required; requisites of~~ proposed charter.—~~Twenty-five or more persons who are~~ Residents and qualified electors of the county in which the annual public fair is to be located, who wish to form an association not for profit for the purpose of conducting and operating public fairs or expositions, may become incorporated in the following manner. The applicant must ~~subscribers shall~~ submit the proposed charter to the department for review and approval or denial. If the proposed charter is denied, the department must provide the applicant with a letter sent to the mailing address provided on the proposed charter and include a complete listing of all deficiencies, if any, which must be remedied before resubmittal of the proposed charter for approval. If the proposed charter is approved, the applicant must ~~subscribers shall~~ sign and present a notarized copy of the proposed charter to the judge of the circuit

court for the county in which the principal office of the association will be located. The proposed charter must specify:

(1) The name of the association and the place where the principal office is to be located. The name of the association must ~~shall~~ include the word, "Inc."

(2) The general nature of the objectives and powers of the association, including a provision that the association is incorporated for the sole purpose of conducting and operating public fairs or expositions.

(3) The qualifications and terms of association members and criteria for their admission and expulsion. Provision must ~~may~~ be made in the charter for ex officio membership.

(4) The time for which the association is to exist.

(5) The name and residence of each subscriber.

(6) Procedures for the election of and governance by officers, who may be elected or appointed.

(7) The designation of officers who will manage the affairs of the association until the first election or appointment under the charter.

(8) Procedures for the adoption, amendment, or rescission of bylaws of the association.

(9) The highest amount of indebtedness or liability that may be accrued by the association.

(10) The name of an elected member of the board of county commissioners of the county in which the principal office of the association will be located, who will serve as an ex officio member of the board of directors of the association.

(11) The official e-mail address of the association which will be used for the purpose of official communication between the association and governmental entities.

(12) The language for the oath that will be taken by the applicant, which must include, but is not limited to, all of the following:

(a) That the primary objective of the association is for public service and to hold, conduct, and promote public fairs or expositions.

(b) That money and other available assets in value exceeding $5,000 have been provided for purposes designated by the association.

(c) That the association will operate in good faith to carry out the purposes and objectives set forth in the charter.

Section 42. Section 616.02, Florida Statutes, is amended to read:

616.02 Fair associations per county ~~Acknowledgment of charter~~.—

(1) Beginning July 1, 2026, there may be only one incorporated fair association per county in this state, excluding the state fair, which may be incorporated and conducted in any county. The department may not approve a proposed charter incorporating a fair association within the same county in which a fair association currently exists. The department may waive this requirement at the discretion of the Commissioner of Agriculture.

(2) Any fair association incorporated before July 1, 2026, may conduct public fairs or expositions and exercise the authority provided to them pursuant to this chapter ~~The proposed charter of a fair association shall be acknowledged by at least three of its subscribers before an officer authorized to make acknowledgment of deeds. Subscribers shall also make and take an oath, which must be attached to the proposed charter, stating that the primary objective of the association is public service and holding, conducting, and promoting public fairs or expositions; that money and other available assets in value exceeding $5,000 have been provided for the purposes of the association; and that the association will operate in good faith to carry out the purposes and objectives set forth in its charter~~.

Section 43. Section 616.03, Florida Statutes, is amended to read:

616.03 ~~Notice of application;~~ Approval and record of charter.—Upon approval by the department, ~~A notice of intention to apply to the circuit court for the charter of a fair association must specify the date that application will be made, shall be sent to the department for approval, and shall be published in a newspaper in the county where the principal office of the association will be located once each week for 4 consecutive weeks. The notice must briefly summarize the charter and objectives of the proposed association.~~ the proposed charter must ~~shall~~ be submitted to and approved by the board of county commissioners of the county in which the principal office of the association will be located. After approval by the ~~department and the~~ board of county commissioners, the proposed charter and proof of approval must ~~and publication shall~~ be submitted to the circuit judge ~~on the date specified in the notice~~. If no cause is shown to the contrary and the judge finds that the proposed charter is in proper form and will serve the primary objective of public service, the judge must ~~shall~~ approve the charter and issue an order incorporating the applicant ~~subscribers~~ under the charter for the objectives and purposes specified in the charter. The charter and order of incorporation must ~~shall~~ be recorded in the office of the clerk of the circuit court in the county where the principal office of the association will be located and provided to the department. After the order is recorded, the applicant ~~subscribers~~ and any ~~their~~ associates are incorporated with the objectives and powers established in the charter and under the name given in the charter. ~~During the publication period, the proposed charter shall be on file in the office of the clerk of the circuit court.~~ This section does not preclude a fair association from also filing its duly approved charter with the Department of State pursuant to chapter 617 for notice purposes.


CODING: Words ~~stricken~~ are deletions; words underlined are additions.

Section 44. Subsection (2) of section 616.05, Florida Statutes, is amended to read:

616.05 Amendment of charter.—A fair association may propose an amendment to its charter by resolution as provided in its charter or bylaws.

(2) After the department approves the proposed amendment, it will be incorporated into the original charter upon:

(a) ~~Publication of notice in the same manner as provided in s. 616.03;~~

~~(b)~~ Filing the order of the circuit judge approving the amendment with the office of the clerk of the circuit court and the department; and

(b)~~(c)~~ Being recorded in the clerk's office.

If a fair association has filed its charter with the Department of State pursuant to chapter 617, a copy of any amendment to the charter must be filed with the Department of State for notice purposes.

Section 45. Section 616.051, Florida Statutes, is amended to read:

616.051 Dissolving a charter.—

(1) A fair association may dissolve its charter by resolution as provided in its charter or bylaws. The proposal for dissolving the charter shall be submitted to the department for approval.

(2) Upon approval by the department and upon presentation of sufficient evidence demonstrating ~~and publication of notice and proof~~ that all indebtedness has been paid and no claims are outstanding against the association, the circuit judge may, by decree, dissolve the association and order the distribution of its remaining assets. Such assets must be distributed, by resolution of the board of directors, to the county in which the principal office of the association is located unless otherwise specified by the deed of the property held by the association ~~its remaining public funds to be distributed as recommended by the board of directors~~.

Section 46. Subsection (3) of section 616.07, Florida Statutes, is amended, and subsections (1) and (2) of that section are republished, to read:

616.07 Members not personally liable; property of association held in trust; exempt from taxation.—

(1) A member, officer, director, or trustee of a fair association is not personally liable for any of the debts of the association, and money or property of a fair association may not be distributed as profits or dividends among its members, officers, directors, or trustees.

(2) All money and property of the association, except that necessary for the payment of its just debts and liabilities, are public property, shall be administered by the association as trustee, and shall be used exclusively for

the legitimate purpose of the association. So long as they are used for that purpose, all money and property of the association are exempt from all forms of taxation, including special assessments, and any projects, activities, events, programs, and uses authorized by this part serve an essential governmental purpose and, therefore, are not taxable and are not subject to assessments. This subsection does not apply to chapter 212.

~~(3) Upon order of the circuit judge, any public funds or property remaining in a fair association when the association is dissolved shall be distributed by resolution of the board of directors to any county or any municipality within the county. The board may designate in the distribution resolution the public project that will benefit from the funds or the manner in which the property will be used. If property has been contributed by a municipality or county, the property shall be reconveyed to the municipality or county that gave the property to the association.~~

Section 47. Section 616.101, Florida Statutes, is amended to read:

616.101 Annual review of accounts and records; review of charter.—

(1) The accounts and records of a ~~every~~ fair association whose annual public fair has an annual attendance of more than 25,000, based upon recorded attendance from the previous year, must ~~shall~~ be reviewed annually by a qualified accountant licensed by the state. A fair association whose annual public fair has an annual attendance of 25,000 or fewer, based upon recorded attendance from the previous year, or a fair association that is holding an annual public fair for the first time, must submit an annual financial statement that has been signed by an officer of the county. The results of the reviews must ~~shall~~ be kept in the official records of each association, available to all directors of the association. A certified copy of the review must ~~shall~~ be filed with the department:

(a)~~(1)~~ On request by the department to certify expenditures of the premiums awarded to exhibitors of a fair or of building funds if ~~when~~ there is evidence of a violation of state laws; or

(b)~~(2)~~ When the association is applying for a fair permit.

(2) A fair association shall, every 5 years beginning July 1, 2026, review its charter and submit to the department a certified copy of the charter which incorporates any amendment made during the last 5 years. A designated member of the association shall attest that the charter is accurate and factual when submitting the certified copy to the department.

Section 48. Section 616.15, Florida Statutes, is amended to read:

616.15 Permit from Department of Agriculture and Consumer Services required.—

(1) An annual public fair may not be conducted by a fair association without a permit issued by the department. The association shall present to

the department an application for a permit, signed by an officer of the association, at least 90 calendar days ~~3 months~~ before holding the annual public fair. The application must ~~shall~~ be accompanied by a fee in an amount to be determined by the department for processing the application and making any required investigation. The application fee must be at least $183 and may not exceed $366. Fees collected under this subsection shall be deposited in the General Inspection Trust Fund of the State Treasury in a special account to be known as the "Agricultural and Livestock Fair Account." A copy of the application must be sent to each fair association located within 50 miles of the site of the proposed annual public fair at the same time the application is sent to the department. The department may issue a permit if the applicant provides:

(a) The opening and closing dates of the proposed annual public fair.

(b) The name and address of the owner of the central amusement attraction that will operate during the annual public fair.

(c) An affidavit properly executed by the president or chief executive officer of the applicant association certifying the existence of a binding contract entered into by the association and the owner of the central amusement attraction covering the period for which the permit from the department is applied. The contract between the parties must ~~shall~~ be available for inspection by duly authorized agents of the department in administering this chapter.

(d) A copy of the association's charter which incorporates all amendments made ~~A written statement that the main purpose of the association is to conduct and operate a public fair and exposition, including the annual fair, for the benefit and development of the educational, agricultural, horticultural, livestock, charitable, historical, civic, cultural, scientific, and other resources of the geographical area the fair association represents and serves. The statement must be subscribed and acknowledged by an officer of the association before an officer authorized to take acknowledgments~~.

(e) A premium list of the current annual public fair to be conducted and ~~or~~ a copy of the previous year's premium list showing all premiums and awards to be offered to exhibitors in various departments of the annual public fair, which may include, but are not limited to, art exhibition;~~,~~ beef cattle;~~,~~ county exhibits;~~,~~ dairy cattle;~~,~~ horticulture;~~,~~ swine;~~, women's department,~~ 4-H Club activities;~~,~~ Future Farmers of America activities; Family, Career and Community Leaders of America ~~Future Homemakers of America~~ activities;~~,~~ poultry and egg exhibits;~~,~~ and community exhibits. The premium list, which may be submitted separately from the application, must be submitted at least 60 calendar days before the annual public fair begins operation.

(f) A complete listing of all exhibits required pursuant to s. 616.17 ~~Proof of liability insurance insuring the association against liability for injury to persons, in an amount of not less than $300,000 per occurrence~~.

~~(g) A copy of the most recent review.~~

~~(h) A list of all current members of the board of directors of the association and their contact information, including home address.~~

The department shall issue the permit within 10 calendar days after it receives ~~all~~ the information required by this subsection ~~and the applicant qualifies pursuant to this section~~.

(2) At least 21 calendar days before holding the annual public fair, the association shall present the department with all of the following information:

(a) Proof of liability insurance insuring the association against liability for injury to persons, in an amount not less than $300,000 per occurrence.

(b) A copy of the association's most recent annual financial statement pursuant to s. 616.101.

(c) A list of all current members of the board of directors of the association and their contact information, including mailing addresses.

(3)~~(2)~~ The department shall administer and enforce ~~the provisions of~~ this chapter except as to the regulation of games, which shall be regulated by local law enforcement agencies. The department shall adopt rules to administer this chapter, including rules governing the form and contents of the application for the permit and any reports that it deems ~~may deem~~ necessary in enforcing the provisions of this chapter.

(4)~~(3)~~ Notwithstanding any fair association meeting the requirements set forth in subsection (1), the department may order a full investigation to determine if the fair association meets the requirements of this part ~~s. 616.01~~, and may withhold a permit from, deny a permit to, or withdraw a permit once issued to the association. The department shall also consider whether any proposed annual public fair, as set forth in an application for a permit, will compete with another annual public fair within 50 miles of the proposed annual public fair with respect to name, dates of operation, or market. The department may deny, withhold, or withdraw a permit from a fair association if the department determines that such fair association will compete with another association. The department shall give preference to existing fair associations with established dates, locations, and names. The determination by the department is final.

Section 49. Section 616.251, Florida Statutes, is amended to read:

616.251 Florida State Fair Authority; creation; responsibility for staging annual state fair; exemptions.—



CODING: Words ~~stricken~~ are deletions; words underlined are additions.

(1) There is created and constituted the "Florida State Fair Authority," a public body corporate and politic, for the purposes and with the powers set forth in this part. Such instrumentality, hereinafter referred to as "the authority," shall have perpetual succession. For the purposes of implementing the intent of this part, the authority shall be considered an instrumentality of the state, subject to the jurisdiction of the state. Any conflict with respect to that jurisdiction will be resolved by the authority and respective state agencies.

(2) The authority shall operate under the supervision of the Commissioner of Agriculture, which supervision may include, but is not limited to, assisting, advising, and making recommendations regarding the financing and operation of the authority. In assisting and advising the authority, the Commissioner of Agriculture may make appropriate staff of the department available to the authority.

(3) The authority is charged with the responsibility of staging an annual fair to serve the entire state. Cash premiums or awards may be given to exhibitors.

(4) The authority shall be exempt from the requirements of part I of this chapter.

(5)~~(4)~~ The principal offices of the authority shall be in such place or places in or near the City of Tampa as the authority may from time to time designate.

Section 50. Paragraph (b) of subsection (2) of section 624.4032, Florida Statutes, is amended to read:

624.4032 Nonprofit agricultural organization medical benefit plans.—

(2) For purposes of this section, the term "nonprofit agricultural organization" means an organization that meets all of the following criteria:

(b) Is exempt from federal income tax under s. 501(c)(5) ~~s. 501(c)(3)~~ of the Internal Revenue Code.

Section 51. Subsection (1) of section 843.085, Florida Statutes, is amended, and subsection (5) of that section is republished, to read:

843.085 Unlawful use of badges or other indicia of authority.—

(1) It is unlawful for any person, unless appointed by the Governor pursuant to chapter 354, authorized by the appropriate agency, or displayed in a closed or mounted case as a collection or exhibit, to wear or display any authorized indicia of authority, including any badge, insignia, emblem, identification card, or uniform, or any colorable imitation thereof, of any federal, state, county, or municipal law enforcement agency, or other criminal justice agency as defined in s. 943.045, with the intent to mislead or cause another person to believe that he or she is a member of that agency

or is authorized to display or wear such item, or to wear or display any item that displays in any manner or combination the word or words "police," "patrolman," "patrolwoman," "agent," "sheriff," "deputy," "trooper," "highway patrol," "commission officer," "Wildlife Officer," "Department of Environmental Protection officer," "Marine Patrol Officer," "state attorney," "public defender," "marshal," "constable," "bailiff," ~~or~~ "fire department," "concealed weapon permit," or "concealed weapon permitholder," with the intent to mislead or cause another person to believe that he or she is a member of that agency, if applicable, or is authorized to wear or display such item.

(5) A violation of this section is a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083. This section is cumulative to any law now in force in the state.

Section 52. Subsection (27) is added to section 934.02, Florida Statutes, to read:

934.02 Definitions.—As used in this chapter:

(27) "Signal jamming device" means a device or process, such as a phone jammer, global positioning systems blocker, or other similar device designed to intentionally block, jam, or interfere with radio communications, such as cellular and personal communication services, police radar, or global positioning systems.

Section 53. Section 934.51, Florida Statutes, is created to read:

934.51 Possession, use, and sale of signal jamming device; prohibition; exceptions; penalties.—

(1) PROHIBITION.—It is unlawful to possess, manufacture, hold or offer for sale, sell, import, distribute, or use a signal jamming device in this state.

(2) EXCEPTIONS.—This section does not apply to a federal or military law enforcement agency that lawfully installs, places, or uses a signal jamming device as part of a criminal investigation, or to any person duly authorized by the Federal Communications Commission.

(3) PENALTIES.—A person who violates this section commits a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083.

Section 54. (1) The Citrus Research and Development Foundation, Inc., the nonprofit corporation established in s. 573.112(7), Florida Statutes, is merged into the Citrus Research and Field Trial Foundation, Inc.

(2) The Citrus Research and Development Foundation, Inc., must enter into a plan with the Citrus Research and Field Trial Foundation, Inc., for the merger. Such merger must be completed by October 1, 2026. The merger is

subject to chapter 617, Florida Statutes, related to the merger of nonprofit corporations.

(3) Any funds held in trust which were donated to or earned by the Citrus Research and Development Foundation, Inc., shall be transferred to the Citrus Research and Field Trial Foundation, Inc., and shall be used for the original purposes of the funds.

(4) The transfer of any program, activity, duty, or function under this act includes the transfer of any records and unexpected balances of appropriations, allocations, or other funds related to such program, activity, duty, or function. Except as otherwise provided by law, the Citrus Research and Field Trial Foundation, Inc., shall become the custodian of any property of the Citrus Research and Development Foundation, Inc., on the date specified in the plan of merger or October 1, 2026, whichever occurs first.

Section 55. Paragraph (a) of subsection (4) and subsection (6) of section 288.1175, Florida Statutes, are amended to read:

288.1175 Agriculture education and promotion facility.—

(4) The Department of Agriculture and Consumer Services shall certify a facility as an agriculture education and promotion facility if the Department of Agriculture and Consumer Services determines that:

(a) The applicant is a unit of local government as defined in s. 218.369, or a fair association as defined in s. 616.001(8) ~~s. 616.001(11)~~, which is responsible for the planning, design, permitting, construction, renovation, management, and operation of the agriculture education and promotion facility or holds title to the property on which such facility is to be developed and located.

(6) Funds may not be expended to develop or subsidize privately owned facilities, except for facilities owned by fair associations as defined in s. 616.001(8) ~~s. 616.001(11)~~.

Section 56. For the purpose of incorporating the amendment made by this act to section 287.1351, Florida Statutes, in a reference thereto, subsection (4) of section 287.056, Florida Statutes, is reenacted to read:

287.056 Purchases from purchasing agreements and state term contracts; vendor disqualification.—

(4) A firm or individual placed on the suspended vendor list pursuant to s. 287.1351 or placed on a disqualified vendor list pursuant to s. 287.133 or s. 287.134 is immediately disqualified from state term contract eligibility.

Section 57. For the purpose of incorporating the amendment made by this act to section 287.1351, Florida Statutes, in a reference thereto, subsection (5) of section 287.138, Florida Statutes, is reenacted to read:

287.138 Contracting with entities of foreign countries of concern prohibited.—

(5) The Attorney General may bring a civil action in any court of competent jurisdiction against an entity that violates this section. Violations of this section may result in:

(a) A civil penalty equal to twice the amount of the contract for which the entity submitted a bid or proposal for, replied to, or entered into;

(b) Ineligibility to enter into, renew, or extend any contract, including any grant agreements, with any governmental entity for up to 5 years;

(c) Ineligibility to receive or renew any license, certification, or credential issued by a governmental entity for up to 5 years; and

(d) Placement on the suspended vendor list pursuant to s. 287.1351.

Section 58. For the purpose of incorporating the amendment made by this act to section 500.04, Florida Statutes, in a reference thereto, subsection (1) of section 500.177, Florida Statutes, is reenacted to read:

500.177 Penalty for violation of s. 500.04; dissemination of false advertisement.—

(1) Any person who violates any provision of s. 500.04 is guilty of a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083; but, if the violation is committed after a conviction of such person under this section has become final, such person is guilty of a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083.

Section 59. For the purpose of incorporating the amendment made by this act to section 616.07, Florida Statutes, in a reference thereto, subsection (13) of section 212.08, Florida Statutes, is reenacted to read:

212.08 Sales, rental, use, consumption, distribution, and storage tax; specified exemptions.—The sale at retail, the rental, the use, the consumption, the distribution, and the storage to be used or consumed in this state of the following are hereby specifically exempt from the tax imposed by this chapter.

(13) LIMITATIONS ON EXEMPTIONS.—No transactions shall be exempt from the tax imposed by this chapter except those expressly exempted herein. All laws granting tax exemptions, to the extent they may be inconsistent or in conflict with this chapter, including, but not limited to, the following designated laws, shall yield to and be superseded by the provisions of this subsection: ss. 125.019, 153.76, 154.2331, 159.15, 159.31, 159.50, 159.708, 163.385, 163.395, 215.76, 243.33, 315.11, 348.65, 348.762, 349.13, 403.1834, 616.07, and 623.09, and the following Laws of Florida, acts of the year indicated: s. 31, chapter 30843, 1955; s. 19, chapter 30845, 1955; s. 12, chapter 30927, 1955; s. 8, chapter 31179, 1955; s. 15,

chapter 31263, 1955; s. 13, chapter 31343, 1955; s. 16, chapter 59-1653; s. 13, chapter 59-1356; s. 12, chapter 61-2261; s. 19, chapter 61-2754; s. 10, chapter 61-2686; s. 11, chapter 63-1643; s. 11, chapter 65-1274; s. 16, chapter 67-1446; and s. 10, chapter 67-1681. This subsection does not supersede the authority of a local government to adopt financial and local government incentives pursuant to s. 163.2517.

Section 60. For the purpose of incorporating the amendment made by this act to section 616.15, Florida Statutes, in a reference thereto, section 616.185, Florida Statutes, is reenacted to read:

616.185 Trespass upon grounds or facilities of public fair; penalty; arrests.—

(1) For the purposes of this chapter, trespass upon the grounds of the Florida State Fair Authority or any other fair association permitted under s. 616.15 means:

(a) Entering and remaining upon any grounds or facilities owned, operated, or controlled by the Florida State Fair Authority or any other association permitted under s. 616.15 and committing any act that disrupts the orderly conduct of any authorized activity of the fair association in charge, or its lessees, licensees, or the general public on those grounds or facilities; or

(b) Entering and remaining on those grounds or facilities after being directed not to enter or to leave them by the executive director of the authority, chief administrative officer of the fair association, or any employee or agent of the association designated by the executive director or administrator to maintain order on those grounds and facilities, after a determination by the executive director, administrator, employee, or agent that the entering or remaining on those grounds or facilities is in violation of the rules and regulations of the Florida State Fair Authority or permitted fair association or is disrupting the orderly conduct of any authorized activity of the fair association in charge, or its lessees, licensees, or the general public on those grounds or facilities.

(2) Any person committing the offense of trespass upon the grounds of the Florida State Fair Authority or any other fair association permitted under s. 616.15 commits a misdemeanor of the second degree, punishable as provided in s. 775.082 or s. 775.083.

(3) A law enforcement officer may arrest any person on or off the premises, without a warrant, if the officer has probable cause for believing such person has committed the offense of trespass upon the grounds of the Florida State Fair Authority or any fair association permitted under s. 616.15. Such an arrest does not render the law enforcement officer criminally or civilly liable for false arrest, false imprisonment, or unlawful detention.

Section 61. This act shall take effect July 1, 2026.

Approved by the Governor March 23, 2026.

Filed in Office Secretary of State March 23, 2026.

**From:** Steven Tummillo <sjtummillo1@gmail.com>
**Sent:** Wednesday, April 15, 2026 10:55 AM
**To:** Dana A. Souza <Dana.Souza@mysanibel.com>
**Subject:** Gas Blowers

Good AM.

Let me preface this message with praise for driving the city bus and accomplishments made. Kudos.
However, the gas blower issue needs to be resolved at the highest legal level available.

Since the special interest lobbyists appear to have control of our so called leadership, language was hidden in a Farm Bill.
Shame on the legislators for bending the sunshine/ transparency rules.

The noise pollution devices ( read - gasoline blowers) have returned in operation in the city. I am reminded of their nuisance high decibels ( 85d +) as peaceful enjoyment of island living is disturbed by their use.

Please consult with counsel and council to scrutinize the language in the Farm bill. Should the bill not differentiate between residential property and agricultural property or Farms and farming, then reimpose the community restriction.

Surely the context of the bill would imply use for farming and agri business. Not residential yard maintenance company use on residential property.
I have not read the bill yet. But wish to have you and Sanibel leadership look deeply into a resolution of the gas blower restrictions.

As a retired builder I am aware of the powers held by the building official to enact edits and amendments to the State / National building codes to taylor to needs of each municipality as deemed appropriate.
One might argue that the same powers to regulate the Vegetation Contractors exist?

Please reply confirming receipt of this message and provide feedback.

TY

Steve Tummillo
CGC055189

Sent from my iPad

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager

**Date:** April 12, 2026

---

**SUBJECT:** Draft Discussion and First Reading of Ordinance 26-011 amending Chapter 66, Traffic, Article III, Speed Limits to authorize the City Council to establish roadway speed limits by Resolution.

**BACKGROUND**: At its March 3, 2026, meeting, the City Council received the "Speed Study and Passing Zone Analysis" (the "Speed Analysis"). Following discussion and public comment, the City Council reached consensus directing staff to return with an action item to reduce speed limits on the following roads:

1. E. Periwinkle Way from Causeway Blvd. to Lighthouse Beach Park – reduce the speed limit from 35 mph to 25 mph.

2. Periwinkle Way from Causeway Blvd. to Tarpon Bay Rd. – reduce the speed limit from 35 mph to 30 mph.

Because Section 66-121 of the Sanibel Code of Ordinances currently establishes the maximum speed limit on Periwinkle Way from Ferry Road (east) to Tarpon Bay Road (west) at 35 miles per hour, the Code must be amended in order to reduce the speed limit on that roadway.

Staff recommends that the City Council consider approving Ordinance 26-011 that establishes a citywide maximum speed limit of 35 miles per hour and authorizes the City Council to set specific roadway speed limits by resolution.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**:
1. Discussion and direction.
2. Schedule Ordinance 26-011 for Second Reading and Public Hearing on May 5, 2026.

**CITY OF SANIBEL**
**ORDINANCE 26-011**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE CODE OF ORDINANCES, CHAPTER 66, TRAFFIC, ARTICLE III, SPEED LIMITS, DIVISION 1, GENERALLY, SECTION 66-121, THIRTY-FIVE MILE PER HOUR SPEED LIMIT, AND DELETING SECTION 66-122, BRIDGE AT BUELL CREEK; SPEED LIMIT; TO ALLOW CITY COUNCIL TO ESTABLISH SPEED LIMITS WITHIN THE CITY VIA RESOLUTION; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, Section 66-121 of the Sanibel Code of Ordinances currently establishes the maximum speed limit on Periwinkle Way from Ferry Road (east) to Tarpon Bay Road (west) at 35 miles per hour; and

**WHEREAS**, Section 66-122 of the Sanibel Code of Ordinances currently establishes the maximum speed limit at the Bridge at Buell Creek on Bay Rd. at 10 miles per hour; and

**WHEREAS,** the City Council finds that it is in the best interest of the public health, safety, and welfare to provide flexibility in establishing speed limits; and

**WHEREAS**, Chapter 316, Florida Statutes, authorizes municipalities to establish speed limits based upon appropriate traffic engineering studies; and

**WHEREAS**, the City Council desires to amend its Code of Ordinances to establish roadway speed limits by Resolution rather than fixed within the Code of Ordinances.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The recitals above are true and correct and made a part hereof.

**SECTION 2.** Sanibel Code of Ordinances, Chapter 66, is hereby amended with ~~strikethrough~~ language indicating deletions and <u>underlined</u> language indicating additions as follows:

**Chapter 66 - TRAFFIC**

. . .

**ARTICLE III. – SPEED LIMITS**

**DIVISION 1. - GENERALLY**

**Sec.66-121. - Thirty-five mile per hour speed limit.**

<u>The maximum speed limit on roadways shall be 35 miles per hour.</u>

<u>The speed limits within the city shall be established by the City Council by resolution. Such resolutions may designate maximum lawful speeds on any streets, roads, bridges, or portions thereof,</u>

as determined appropriate for public safety and traffic regulation; provided, however, that no maximum speed shall exceed 35 miles per hour.

All speed limits established by resolution shall be adopted in accordance with applicable provisions of state law, including but not limited to chapter 316, Florida Statutes, and any required traffic engineering studies.

~~The maximum speed within the city shall be 35 miles per hour along the following routes:~~

~~Westerly along Periwinkle Way beginning at the intersection of Ferry Road and terminating at Tarpon Bay Road; generally north and westerly along Palm Ridge Road from the intersection at Periwinkle to the intersection at Tarpon Bay Road; and thence westerly along Sanibel Captiva Road to the western most corporate limits of the city.~~

~~**Sec. 66-122. - Bridge at Buell Creek; speed limit.**~~

~~The maximum rate of speed for any vehicle traversing the bridge at Buell Creek on Bay Drive (formerly known as Old Bayshore Road) shall be ten miles per hour and it is unlawful and prohibited for any person to exceed such speed limit.~~

. . .

**SECTION 3.** Codification. The City Manager is hereby authorized and directed to indicate these amendments in future City Code publications.

**SECTION 4.** Conflict. All ordinances and parts of ordinances in conflict herewith shall be and the same hereby repealed. If any part of this ordinance conflicts with any other part, it shall be severed, and the remainder shall have full force and effect and be liberally construed.

**SECTION 5.** Severance. If any section, subsection, sentence, clause, phrase or portion of this ordinance, or application hereof, is, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion or application shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion or application hereof.

**SECTION 6.** Effective date. This Ordinance shall be effective immediately upon adoption.

**SCHEDULED FOR SECOND READING AND PUBLIC HEARING IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THE 5TH DAY OF MAY 2026.**

Attest:

Scotty Lynn Kelly, City Clerk

Mike Miller, Mayor

Approved as to form and legality:

_____
John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

| | | |
|---|---|---|
| Miller | _____ | |
| Smith | _____ | First Reading: April 21, 2026 |
| DeBruce | _____ | Publication Date: _____ |
| Henshaw | _____ | Second Reading: _____ |
| Johnson | _____ | |

# AGENDA MEMORANDUM

*Natural Resources Department*

**City Council Meeting Date: April 21, 2026**

**To:** City Council
**From:** Dana Dettmar, Environmental Biologist
**Date:** April 3, 2026

---

**SUBJECT**: 2025 On-island Water Quality Program Update

**BACKGROUND:** In recent years, Sanibel has experienced multiple storm events (Hurricanes Ian, Idalia, Debby, Helene, and Milton), which had varying degrees of impact to the island and its natural resources. There is concern for what the negative implications of these events might be as it relates to wildlife, native plant communities, and water quality. Natural Resources staff in partnership with the Sanibel-Captiva Conservation Foundation (SCCF) Marine Lab initiated several efforts to investigate conditions in formerly freshwater systems, tracking their progression over time and what that might mean for the island's ecology.

Pre-storm water quality conditions are well documented through the City's established Sanibel Communities for Clean Water Program (SCCW). To document post-storm conditions, the City and SCCF sampled a sub-set of the sites included in the program. This included 40 of the 78 lakes that are typically sampled as part of the SCCW Program. This study also included 27 groundwater monitoring well sites to evaluate the relationship between groundwater and surface water. Additionally, this reporting period included 11 canal sites as part of the City's Clean Canals Program (CCP). Mark Thompson, Research Associate at the Sanibel-Captiva Conservation Foundation will provide a brief presentation of the 2025 SCCW and groundwater monitoring report and CCP monitoring report. The full reports are included as agenda attachments. https://www.sanibelcleanwater.org/

**FUNDING SOURCE:** N/A

**RECOMMENDATION:** For information & discussion.

# 2025 Annual Report Lakes, Canals and Groundwater Monitoring

Mark Thompson

SCCF Marine Laboratory, Research Associate

mthompson@sccf.org

April 2026

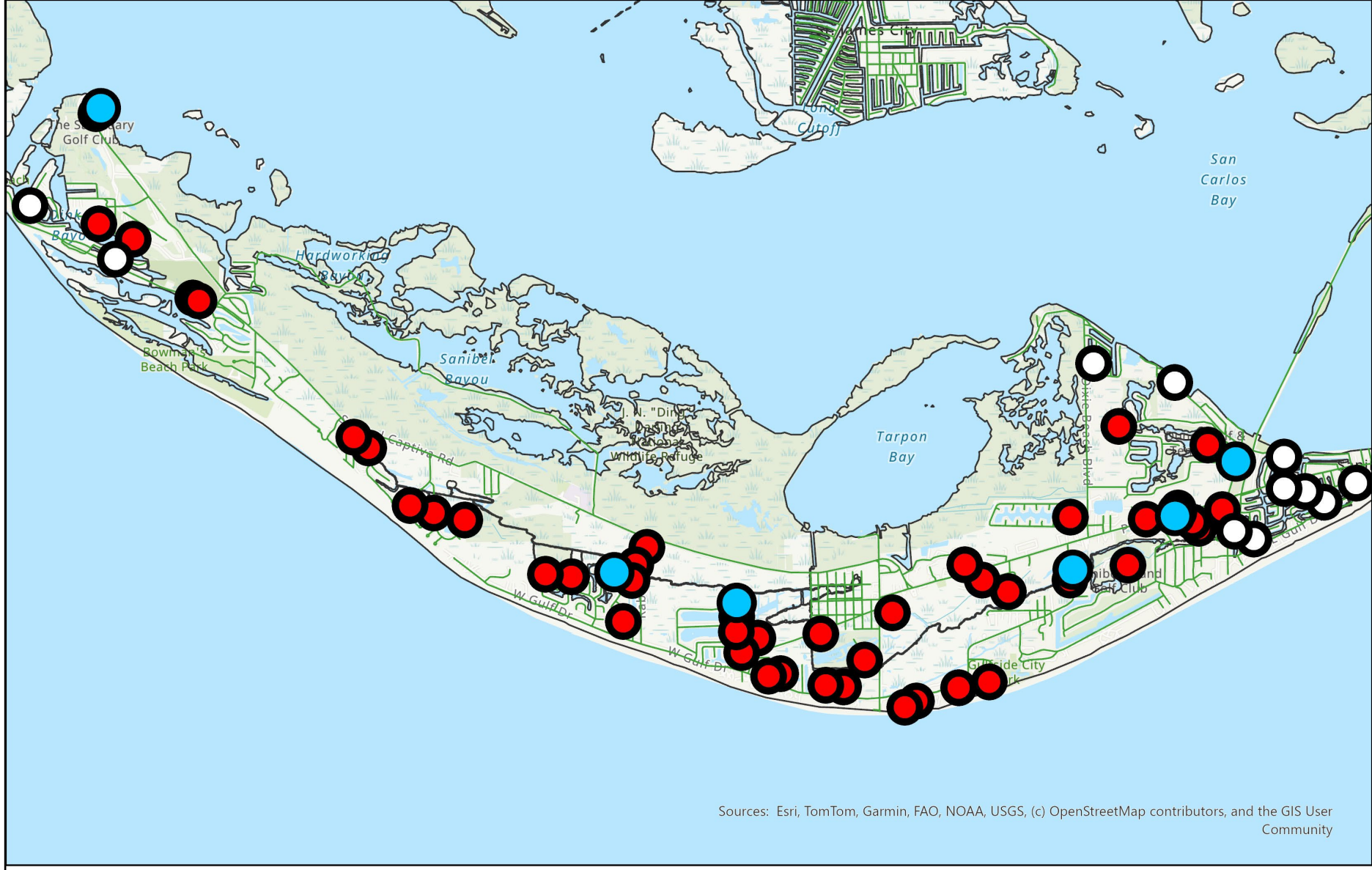
https://sccf.org/







- 42 Lake Sites
- 11 Canals
- 6 Groundwater Monitoring Wells
- Jan – Oct 2025




2025 Monitoring Sites Sanibel Lakes and Groundwater

Lake Sites

Canal Sites

Long Term Wells

SCCF SANIBEL-CAPTIVA CONSERVATION FOUNDA

# Salinity (PSU) = Saltiness

Fresh = 0-3 PSU

- Bass & Cattails
- Drink & Water Lawn



Estuarine = 3-30 PSU

- Snook & Seagrass
- No Drink & Dead Lawn

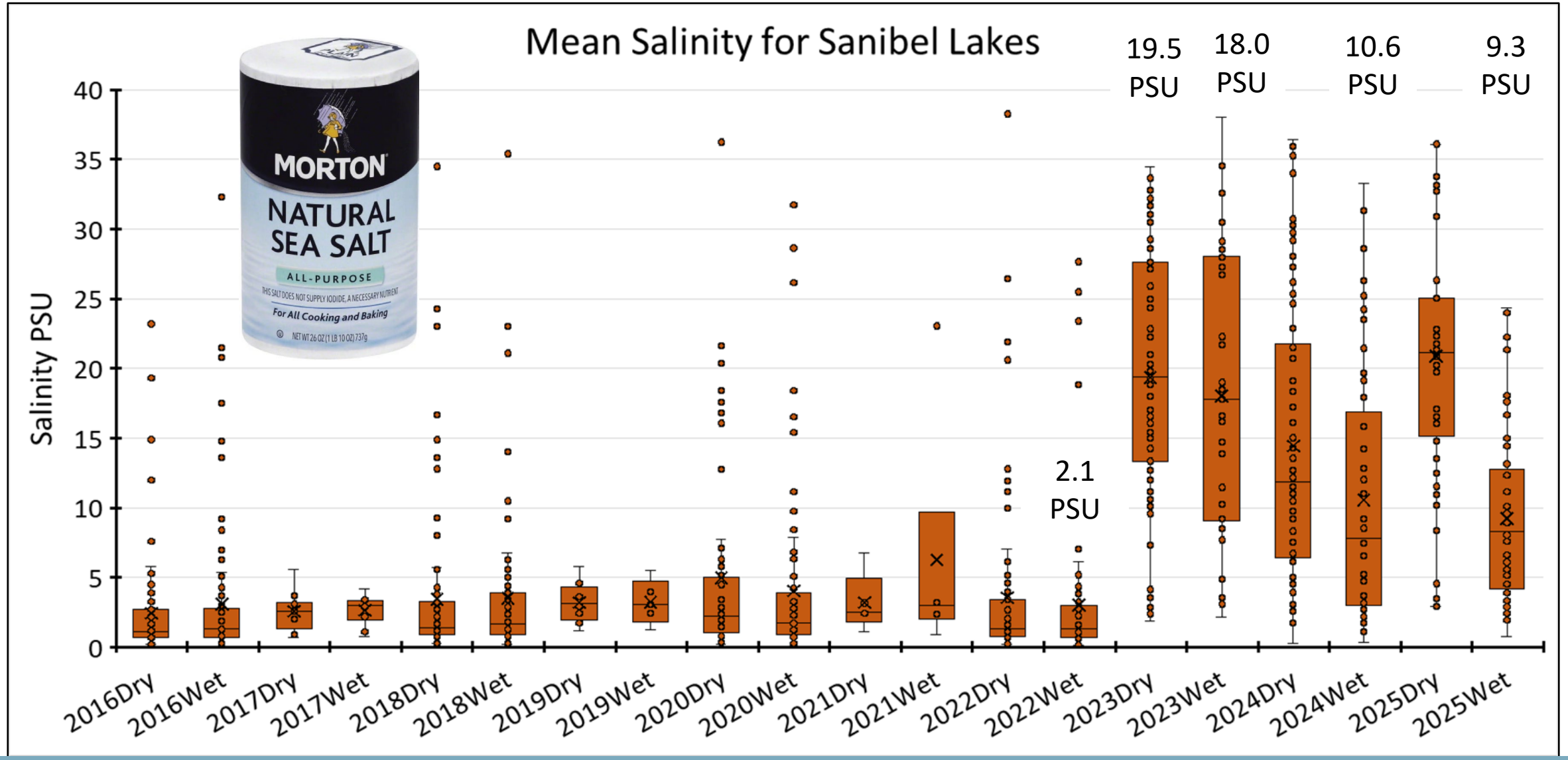


Marine = 30+ PSU

- Grouper & Reef
- No Drink & Lawn = Salt Mine

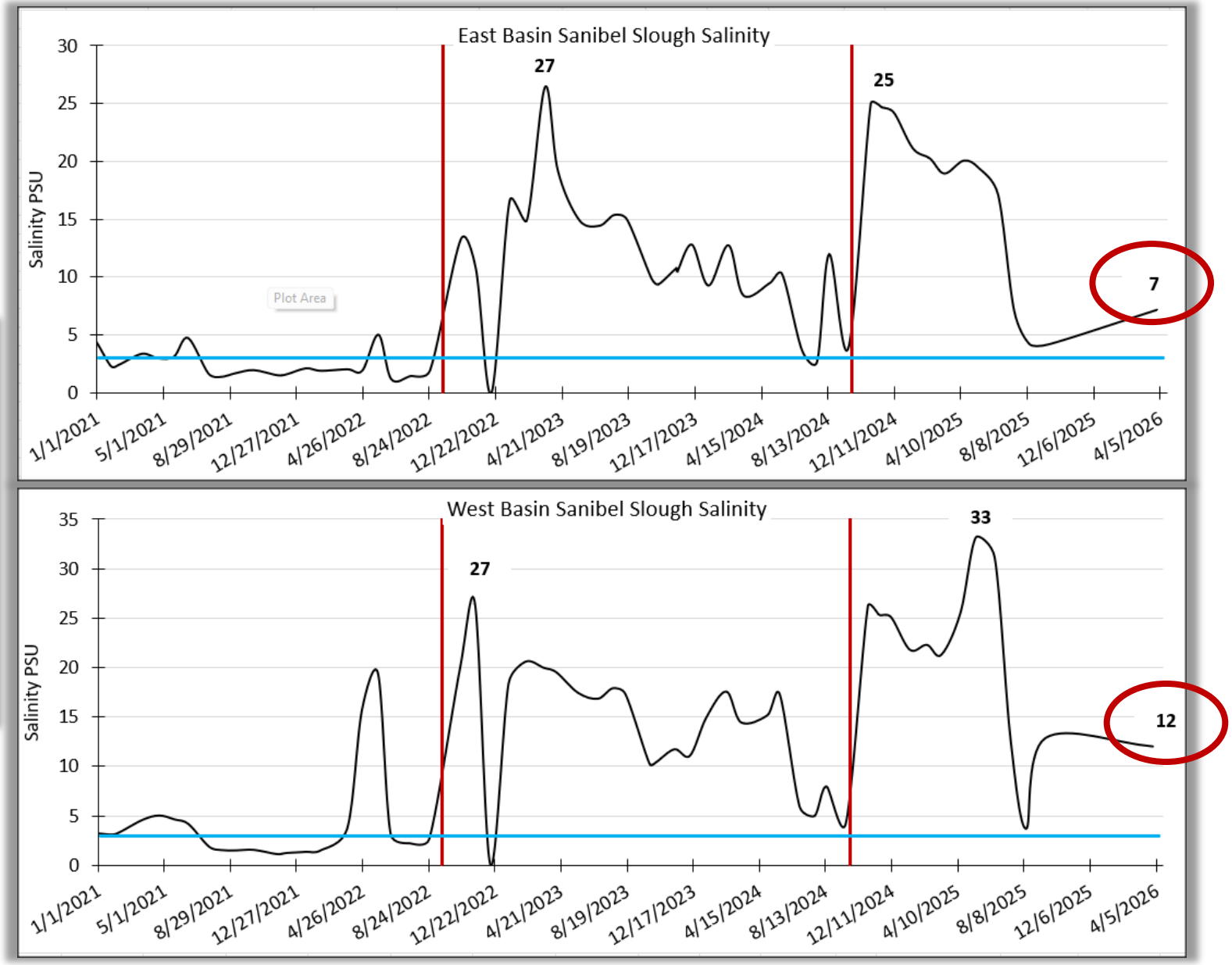


# Average Salinity In Lakes on Sanibel through 2025

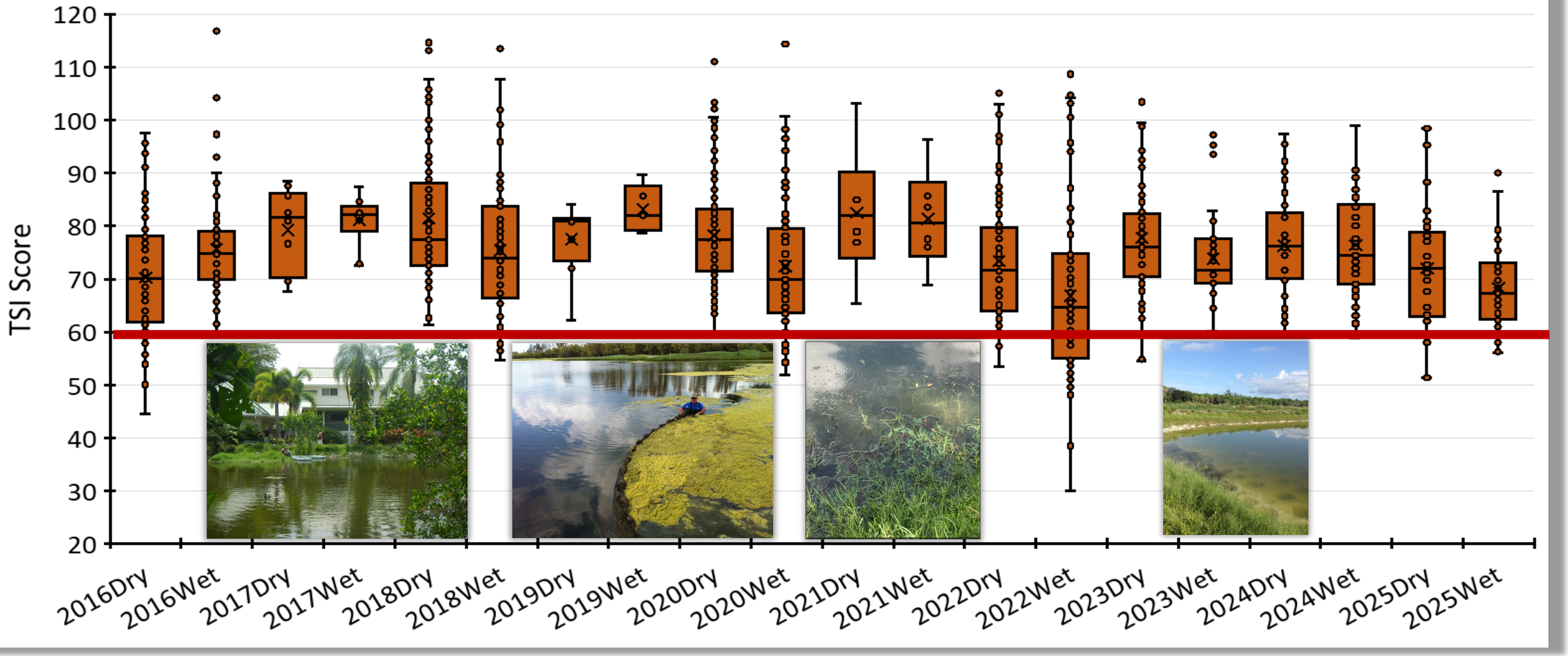


# Sanibel Slough Salinity Time Series





# Trophic State Index



| Prority Rank | Station | Description | WQ Grade | WQ Trend |
|---|---|---|---|---|
| 1 | SCL05 | CityReclaimDschrge | F | NC |
| 2 | SCL74 | He | | |
| 3 | SCL29 | | | |
| 4 | SCL35 | Seagull E | | |
| 5 | SanSlou | West | | |
| 6 | SCL32 | A | | |
| 7 | SCL80 | | | |
| 8 | SanSlou | East | | |
| 9 | SCL03 | Pr | | |
| 10 | SCL69 | | | |
| 11 | SCL13 | S | | |
| 12 | SCL60 | V | | |
| 13 | SCL45 | Pond - | | |
| 14 | SCL26 | | | |
| 15 | SCL31 | | | |
| 16 | SCL71 | | | |
| 17 | SCL62 | C | | |
| 18 | Devitt01 | Pond at SCCF Homestead | D | NC |
| 19 | SCL21 | OceansReachCondo | C | NC |
| 20 | SCL43 | PalmLake | C | NC |
| 21 | SCL64 | TradewindsNLake | C | Better |

| Prority Rank | Station | Description | 2025 WQ Grade | WQ Trend |
|---|---|---|---|---|
| 22 | SCL70 | BluCrabLake | C | Better |
| | | | D | Worse |
| | | | C | Better |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | C | NC |
| | | | B | Better |
| | | | B | Better |
| | | | B | Better |
| | | | B | Better |
| | | | C | NC |
| | | | B | Better |
| | | | C | NC |
| 40 | SCL46 | Brghtwter_IslandInn | C | NC |
| 41 | SCL55 | ERockWestEndCoquina | B | Better |
| 42 | SCL02 | BeachRdVillasPnd | C | NC |

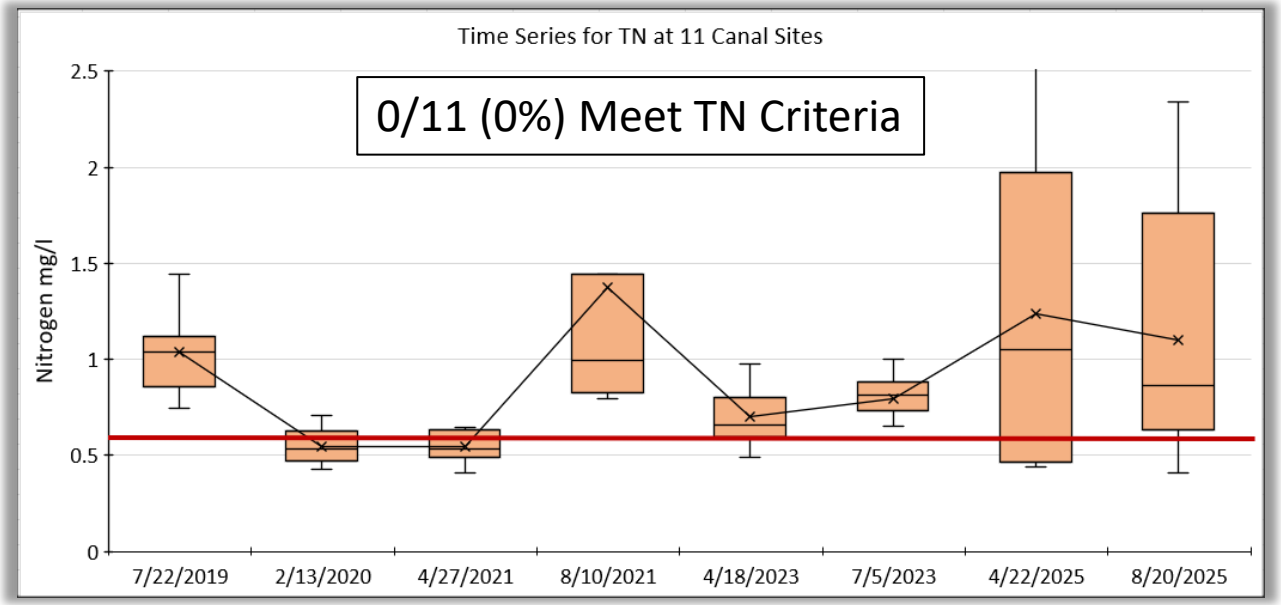
- **B Grade** — **6/42 (14%)(better)**
- **C** — **18/42 (43%)**
- **D or F** — **18/42 (43%) (better)**

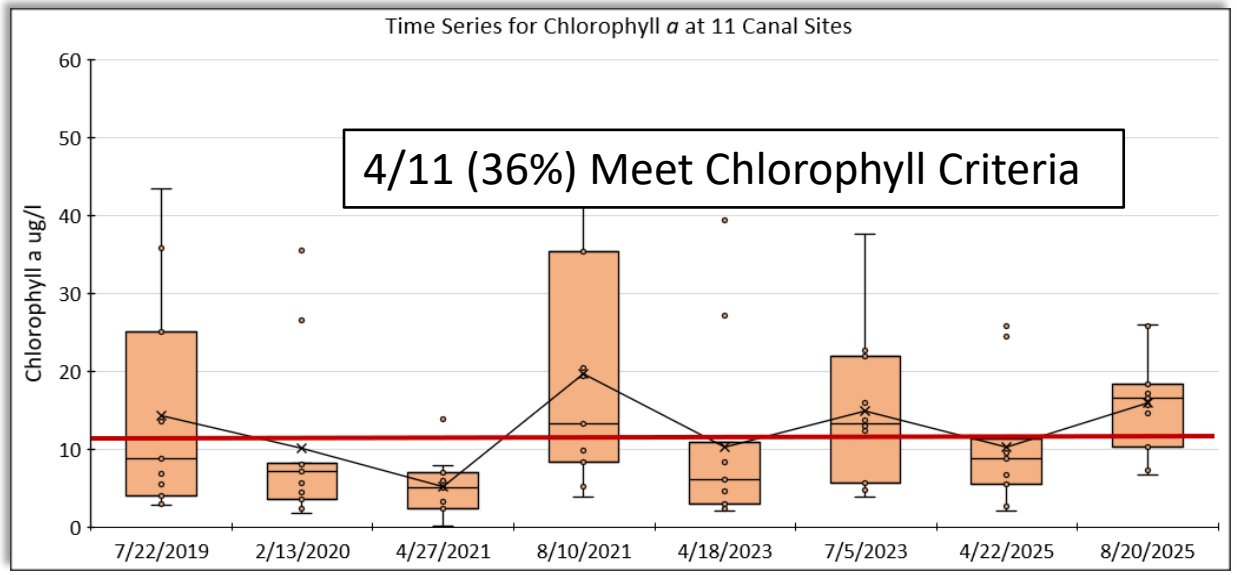
- **9/42** — **21% of lakes are trending better (up)**

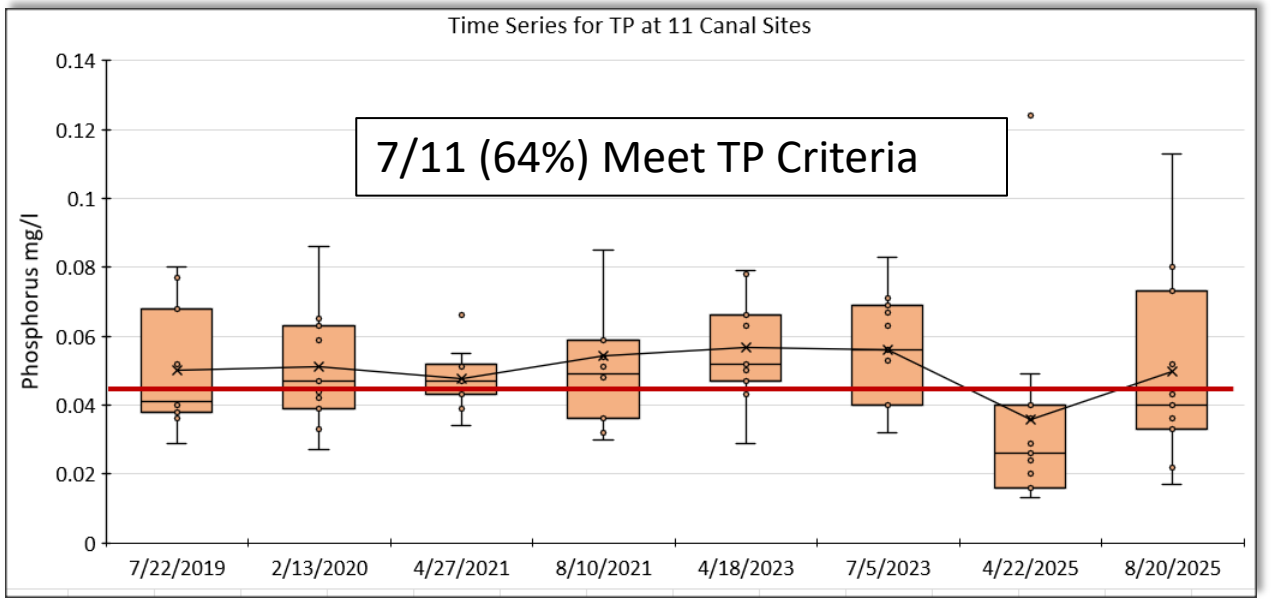
https://sanibelcleanwater.org/

# Sanibel Canals Summary

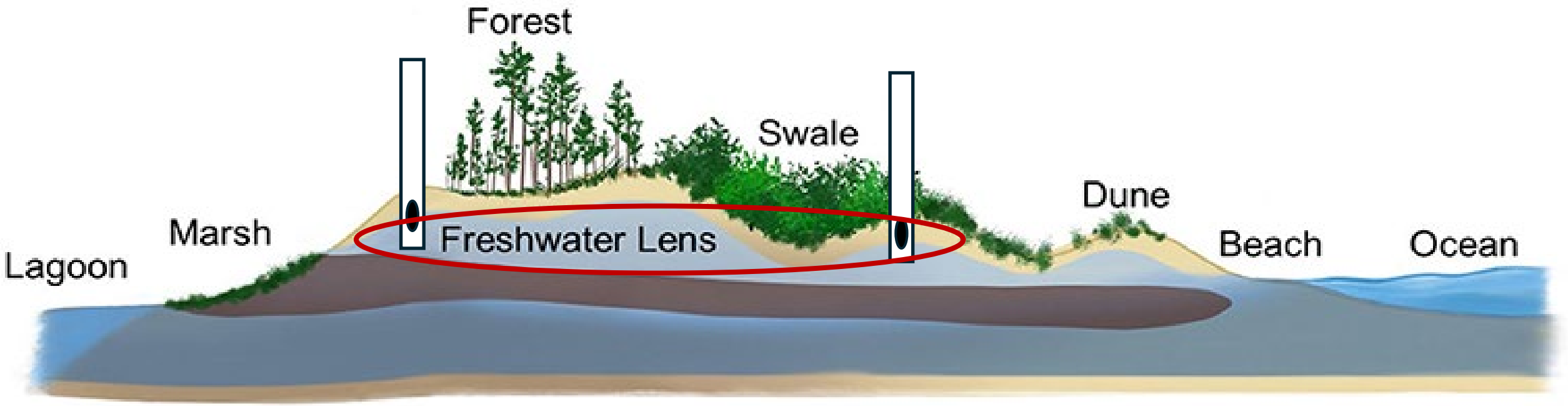


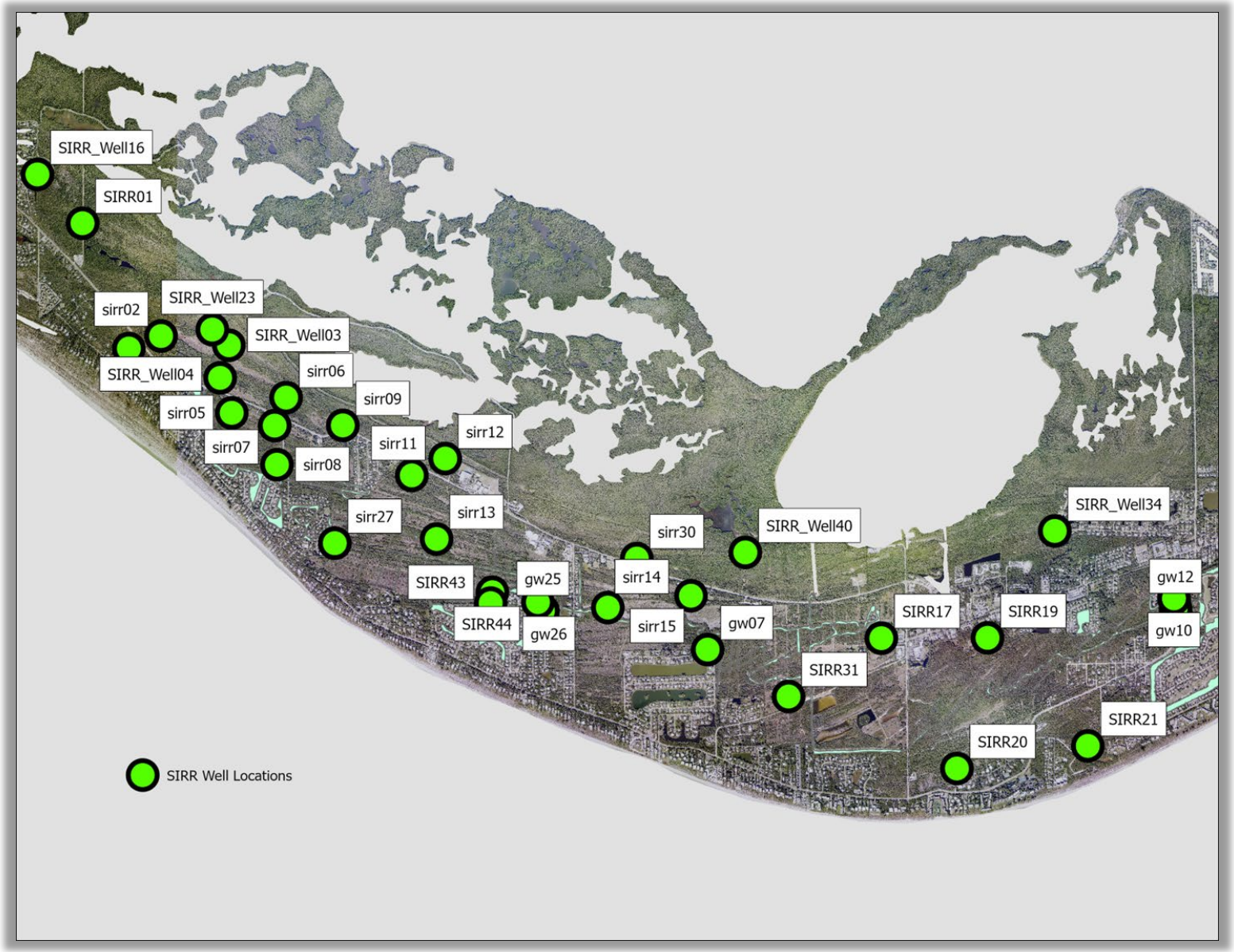



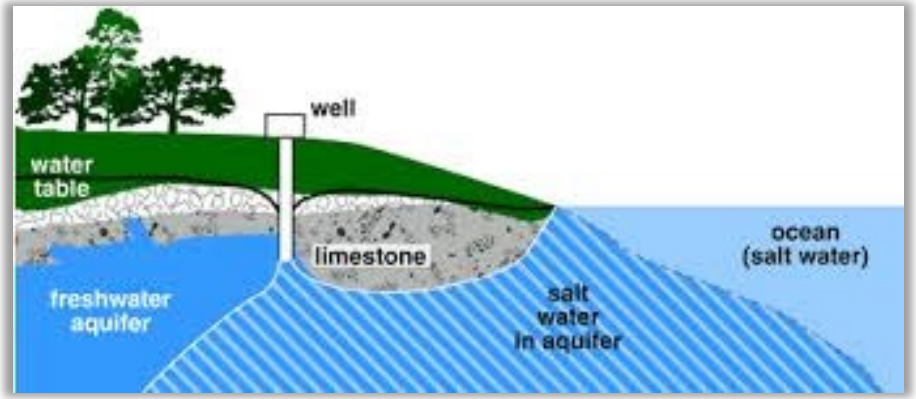
# Groundwater: Findings 2025



# Groundwater: Findings 2025

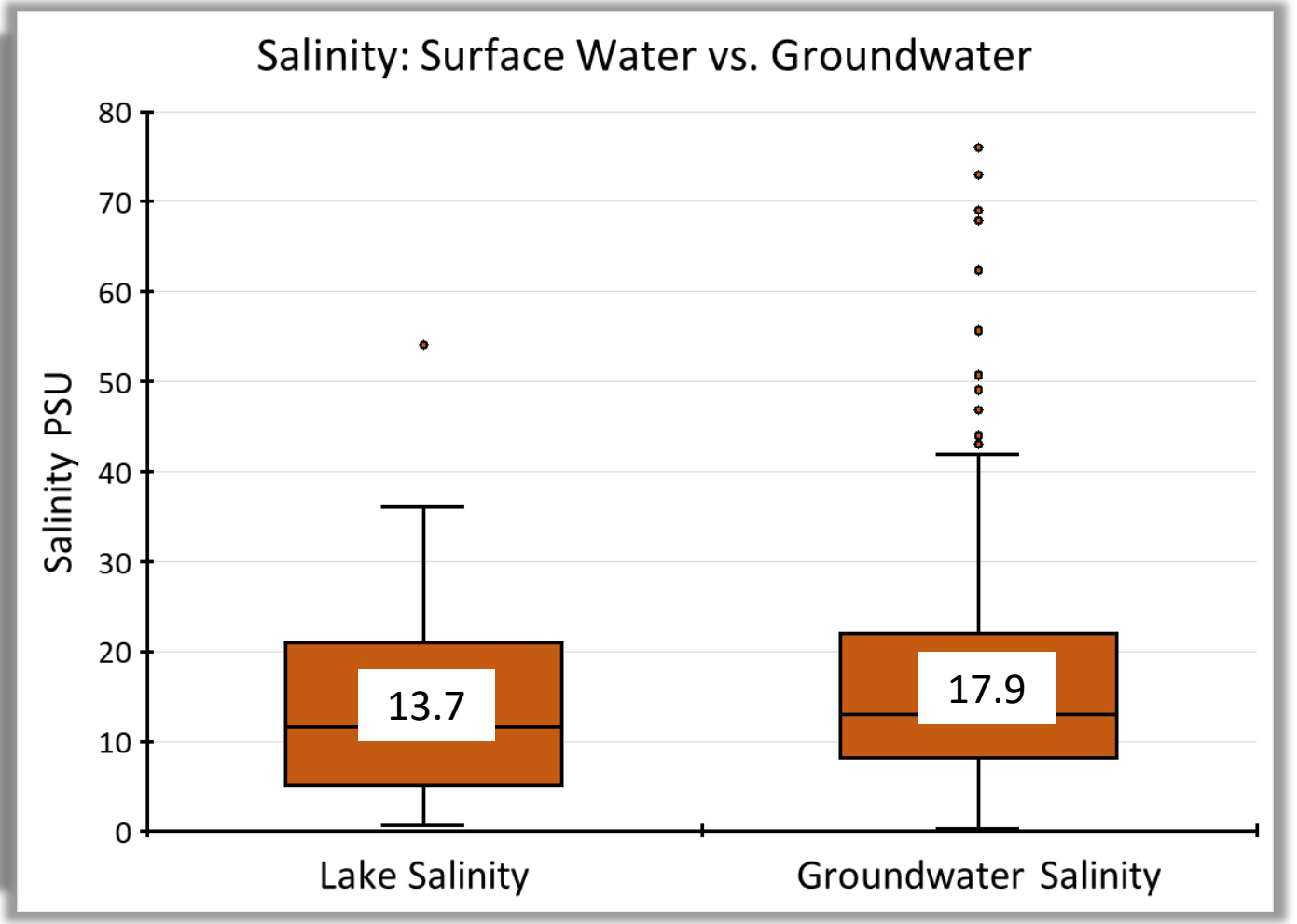


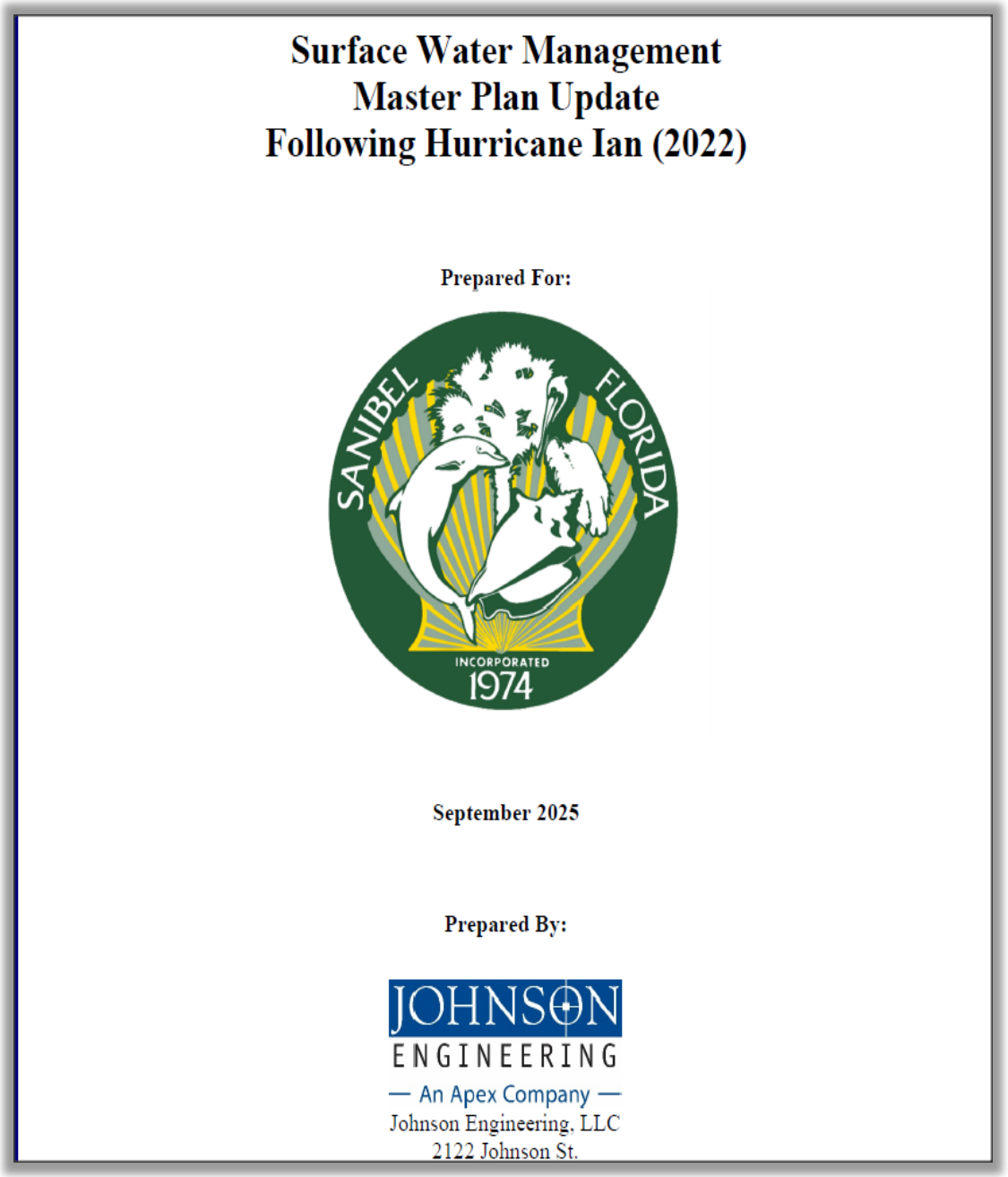


# Surface vs. Groundwater








# Sanibel Surface Water Management Plan
# Water Level Schedule

## W. Basin > 1.0 ft at end of May

## To remain +1 feet above MSL

## Prevent saltwater intrusion

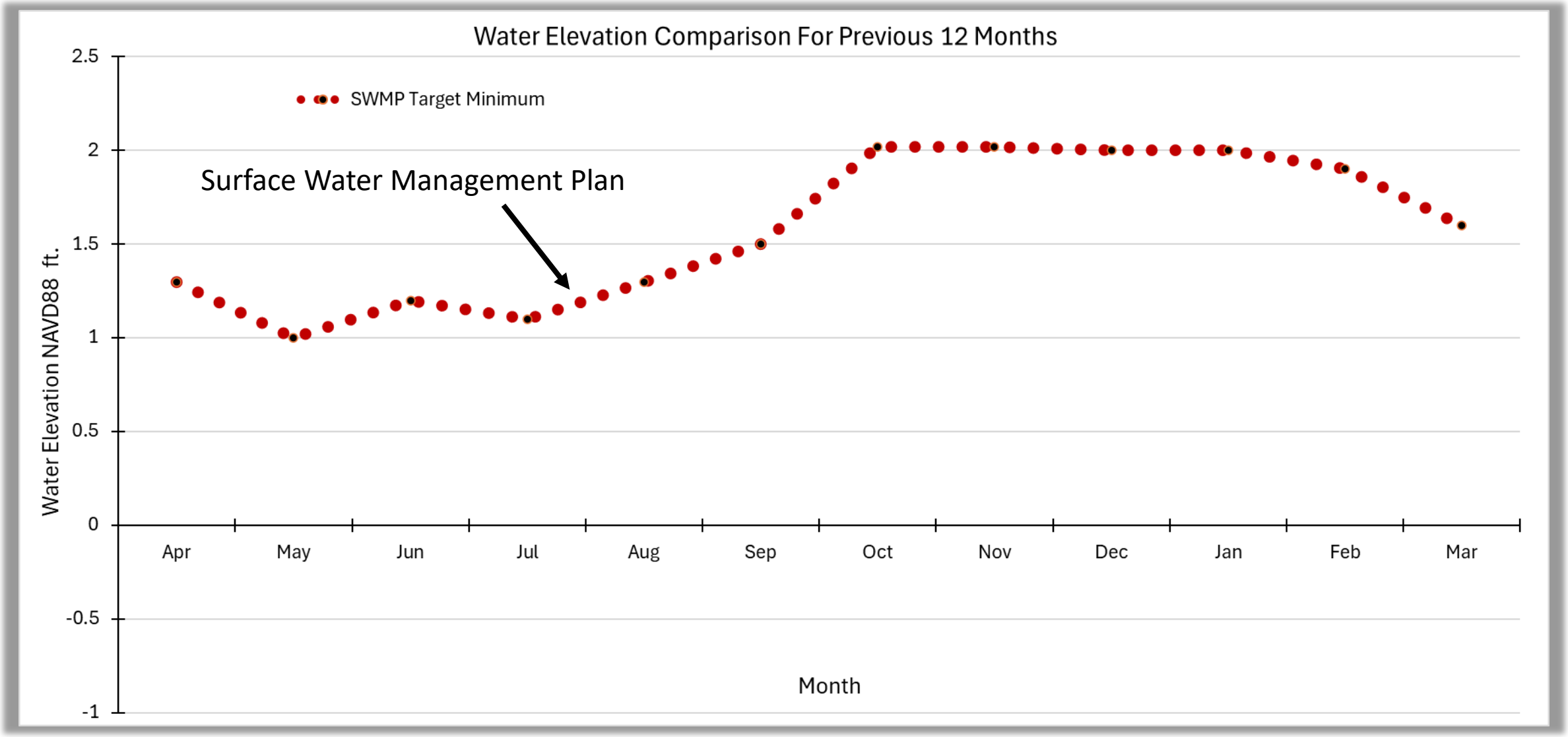
# Weir Policy Evaluation

The primary objective of the City's Weir Control Policy should be to continue retaining as much freshwater on the island as practical.

- There are not stormwater issues as a result of basins being full (2.0/1.6 NAVD)
- To account for dry season evapotranspiration losses, need 1 foot above Mean Sea Level (MSL) on May 1.
- Options for Operational Flexibility
  - Under high salinity conditions a lowering levels at the beginning of the wet season may be beneficial to flush salt water from the system.
  - Under certain conditions, there may be some flexibility in early/mid wet season to keep levels lower than full to help with capacity for high intensity rain events
  - Crucial to coordinate with the partners to ensure no adverse impacts to the freshwater lens.

**Table 5. Monthly average total rainfall, atmospheric outflows, surplus/deficit, and mean sea level on Sanibel.**

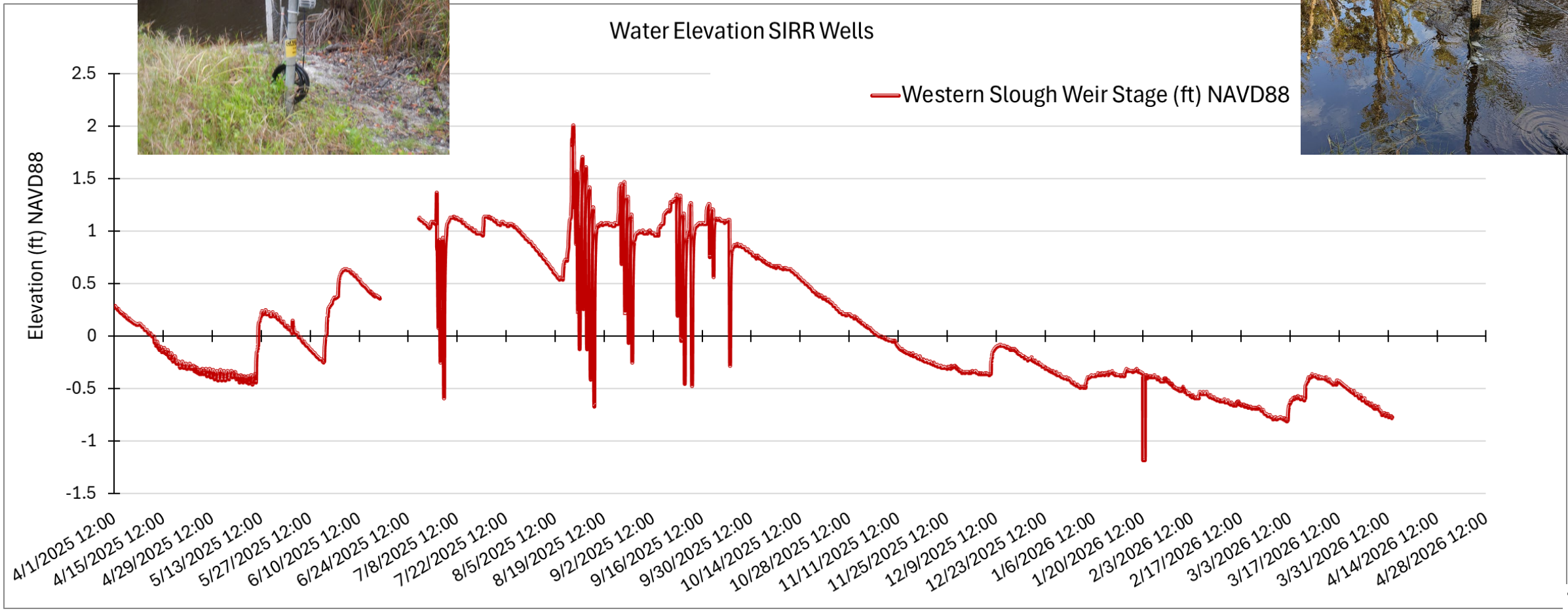
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg. Rainfall | 3.7 | 1.8 | 2.1 | 3.0 | 1.5 | 1.2 | 1.9 | 2.5 | 6.9 | 7.9 | 9.1 | 8.8 |
| Avg. Evap. & ET | 3.7 | 3.1 | 2.9 | 3.2 | 3.1 | 4.5 | 5.1 | 5.8 | 4.9 | 5.2 | 4.8 | 3.9 |
| Surplus (+) / Deficit (-) | 0.0 | -1.3 | -0.9 | -0.2 | -1.6 | -3.3 | -3.3 | -3.4 | 2.0 | 2.7 | 4.3 | 5.0 |
| Cumulative Deficit | 0.0 | -1.3 | -2.2 | -2.3 | -4.0 | -7.3 | -10.6 | -13.9 | -11.9 | -9.2 | -5.0 | 0.0 |
| Mean Sea Level | 0.4 | 0.2 | -0.1 | -0.3 | -0.3 | -0.2 | 0.0 | 0.0 | 0.2 | 0.1 | 0.3 | 0.5 |
| Min. Basin WL to Overcome MSL | 2.2 | 2.1 | 2.0 | 2.0 | 1.9 | 1.6 | 1.3 | 1.0 | N/A | N/A | N/A | N/A |

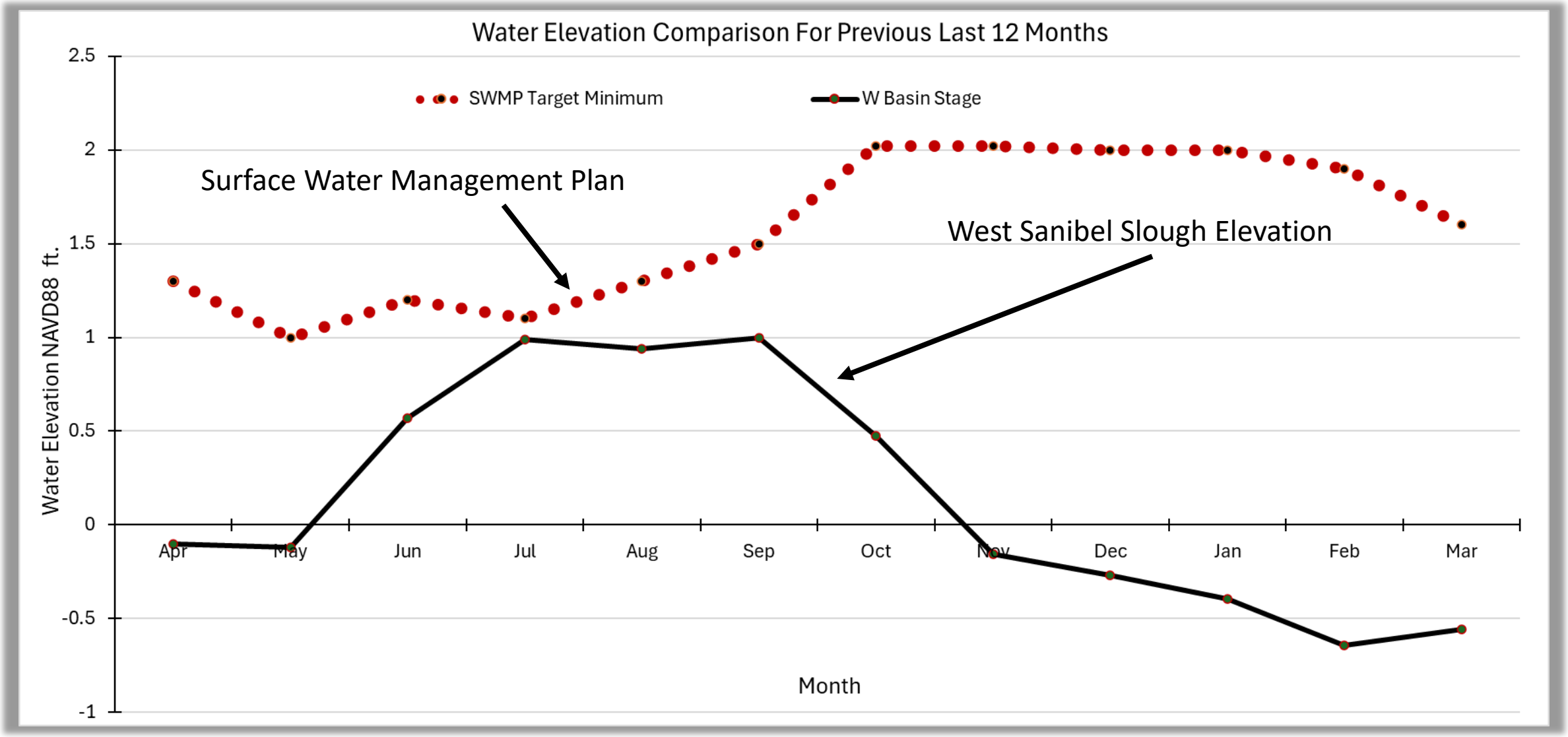

Water Elevation Comparison For Previous 12 Months
SWMP Target Minimum
Surface Water Management Plan
Water Elevation NAVD88 ft.
2.5
2
1.5
1
0.5
0
-0.5
-1
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Month

# Using Real Time Water Level Instrumentation
# Sanibel Slough (MSL)








Water Elevation Comparison For Previous Last 12 Months
SWMP Target Minimum
W Basin Stage
Surface Water Management Plan
West Sanibel Slough Elevation
Water Elevation NAVD88 ft.
2.5
2
1.5
1
0.5
0
-0.5
-1
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Month

# Sanibel Surface Water Management Plan

## Target Water Levels For West Basin

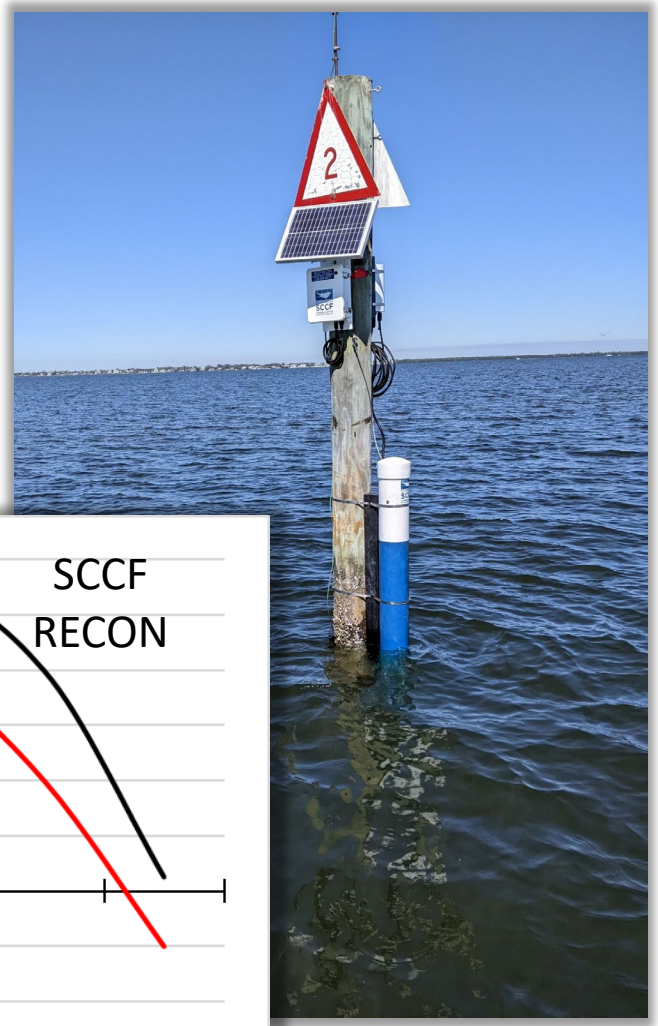
| Month | Target Water Level (ft) NAVD 88 |
|---|---|
| January | 2 |
| February | 1.9 |
| March | 1.6 |
| April | 1.3 |
| **May** | **1** |
| June | 1.2 |
| July | 1.1 |
| August | 1.3 |
| September | 1.5 |
| October | 2.02 |
| November | 2.02 |
| December | 2 |

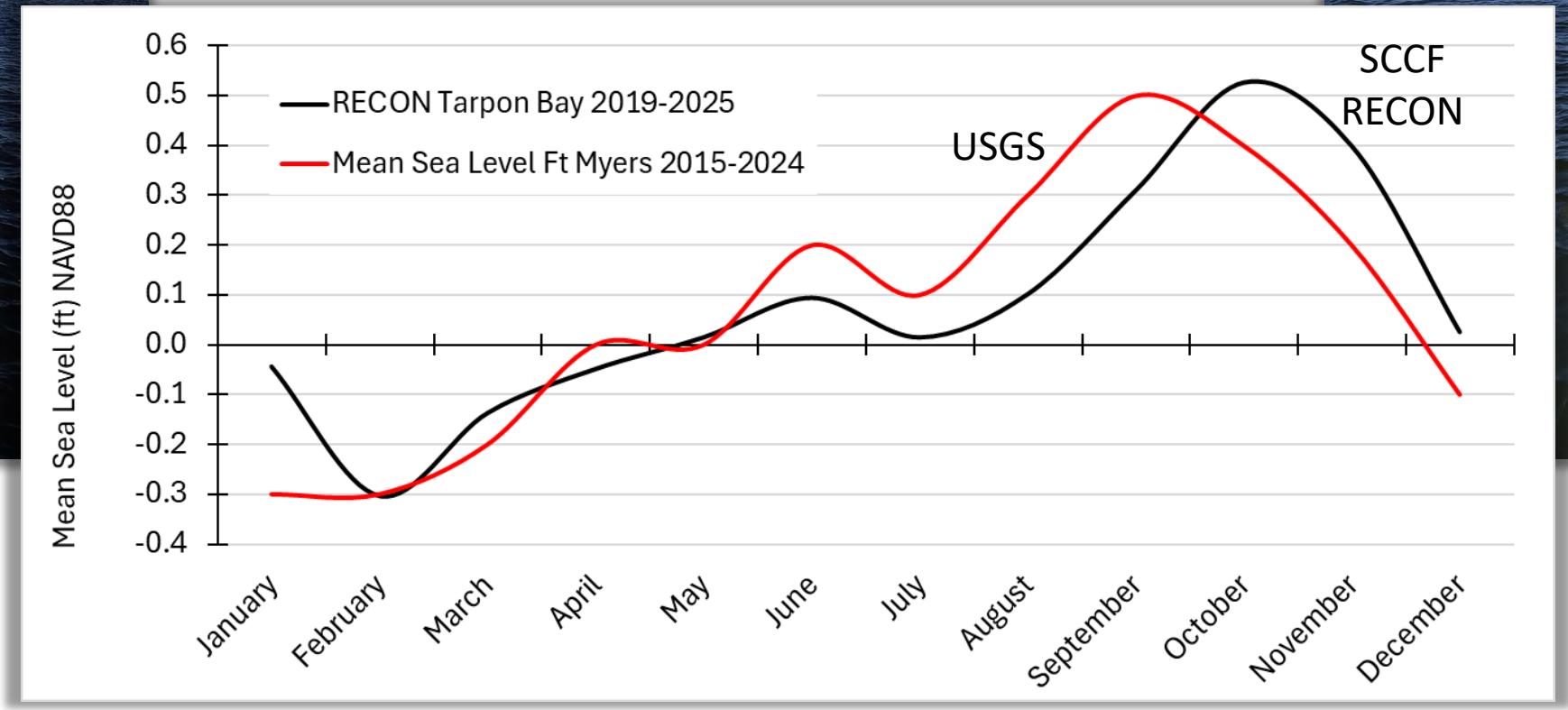
March 31, 2026 - W. Basin Water Level = - 0.77 feet

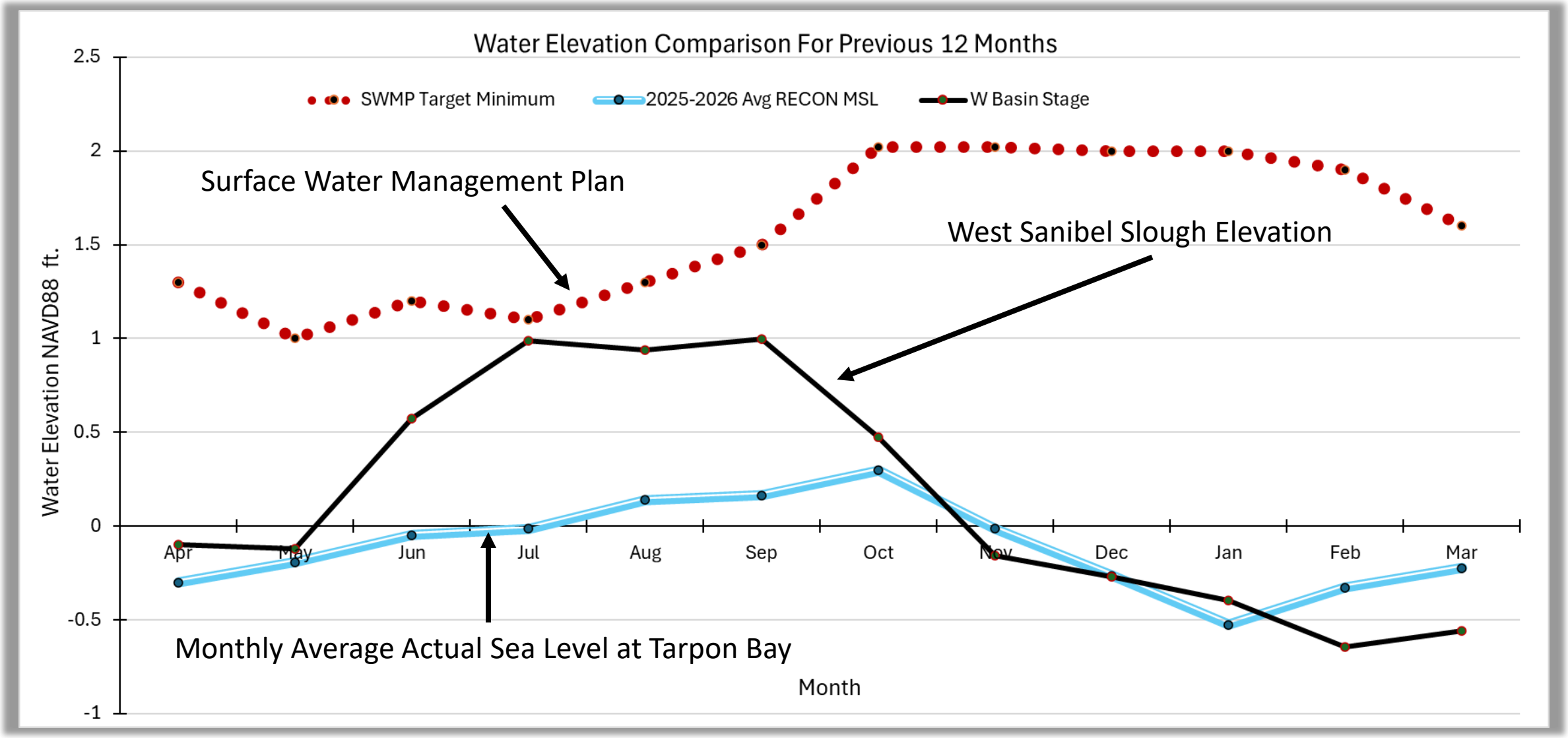
This is **2.3** feet below SWMP target for March



# Using Tarpon Bay RECON for Real Time Tide Level (MSL)



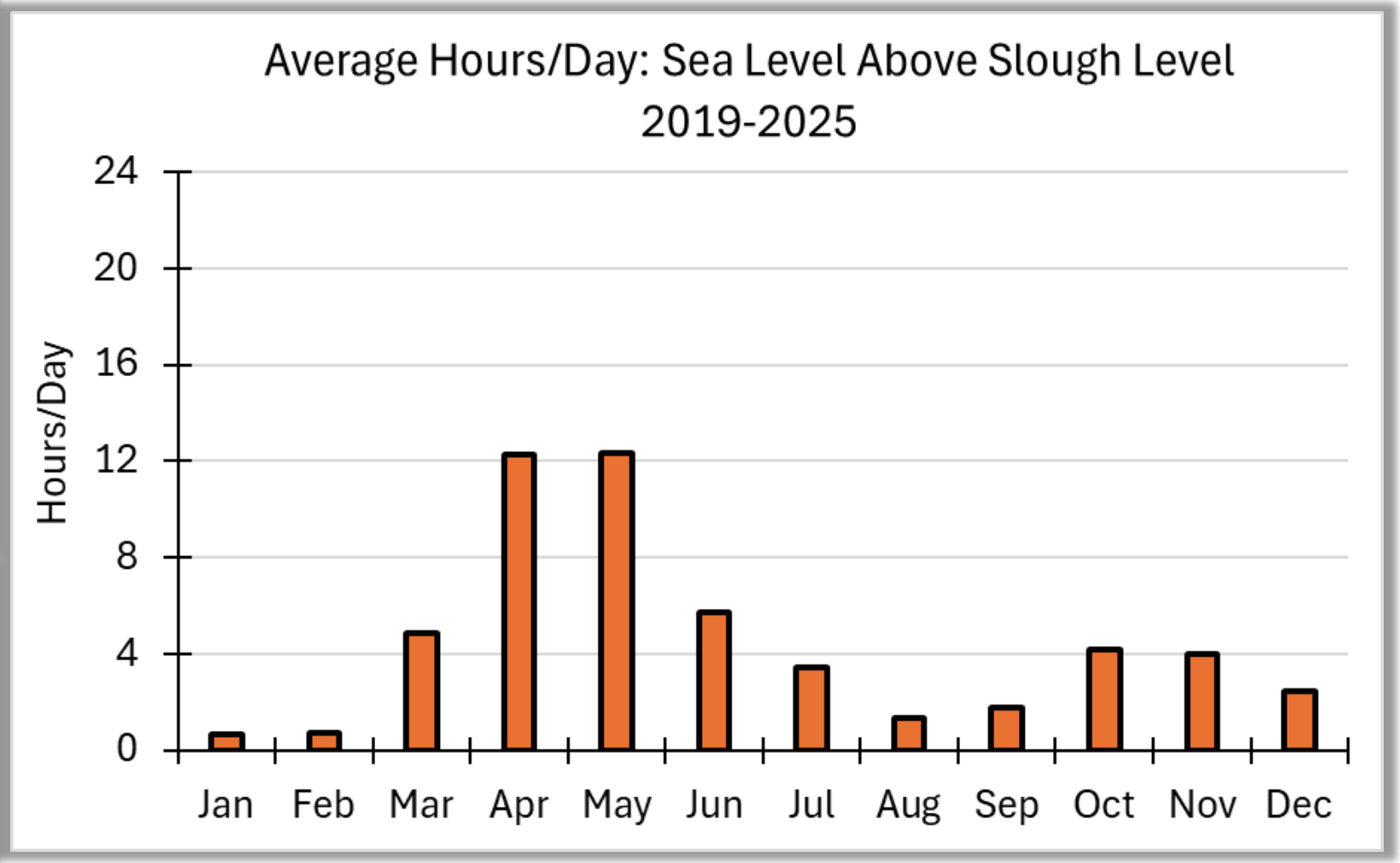



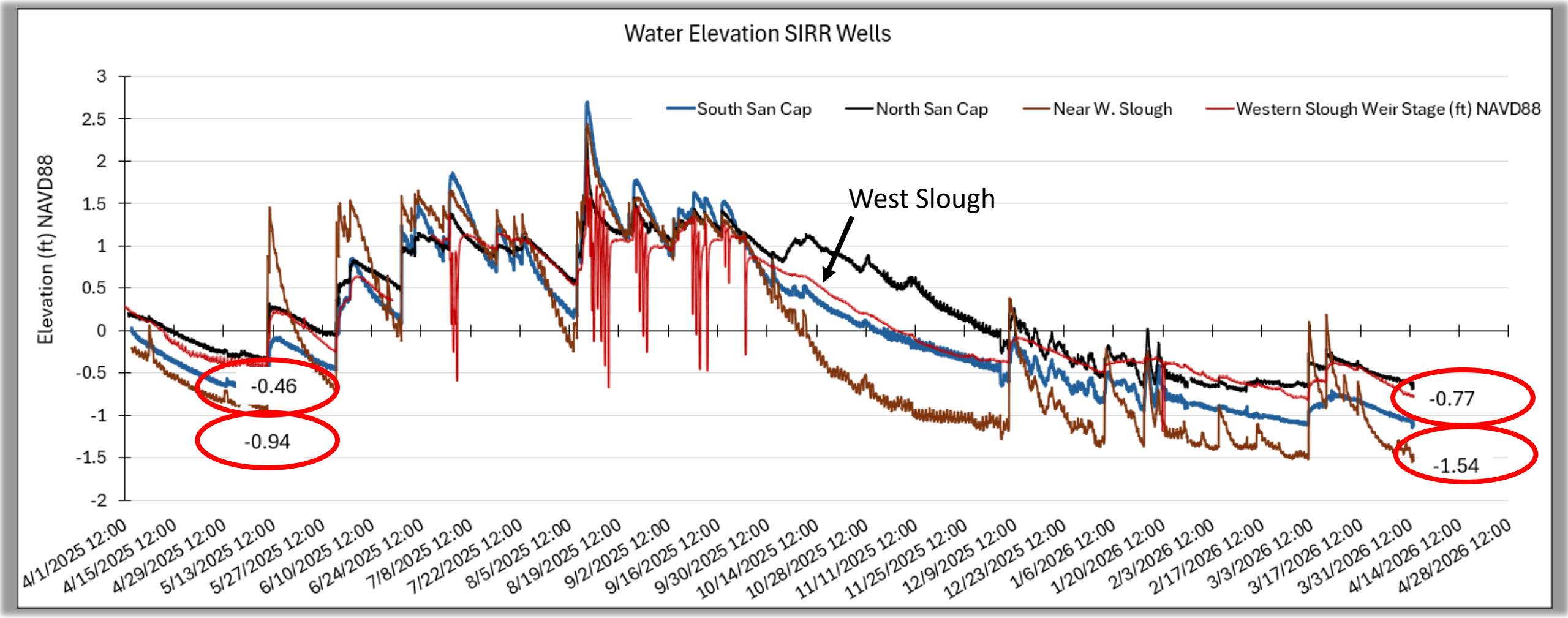

Water Elevation Comparison For Previous 12 Months
SWMP Target Minimum
2025-2026 Avg RECON MSL
W Basin Stage
Surface Water Management Plan
West Sanibel Slough Elevation
Monthly Average Actual Sea Level at Tarpon Bay
Water Elevation NAVD88 ft.
Month
2.5
2
1.5
1
0.5
0
-0.5
-1
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Mar

# Actual Sea Level Compared to West Sanibel Slough Water Level



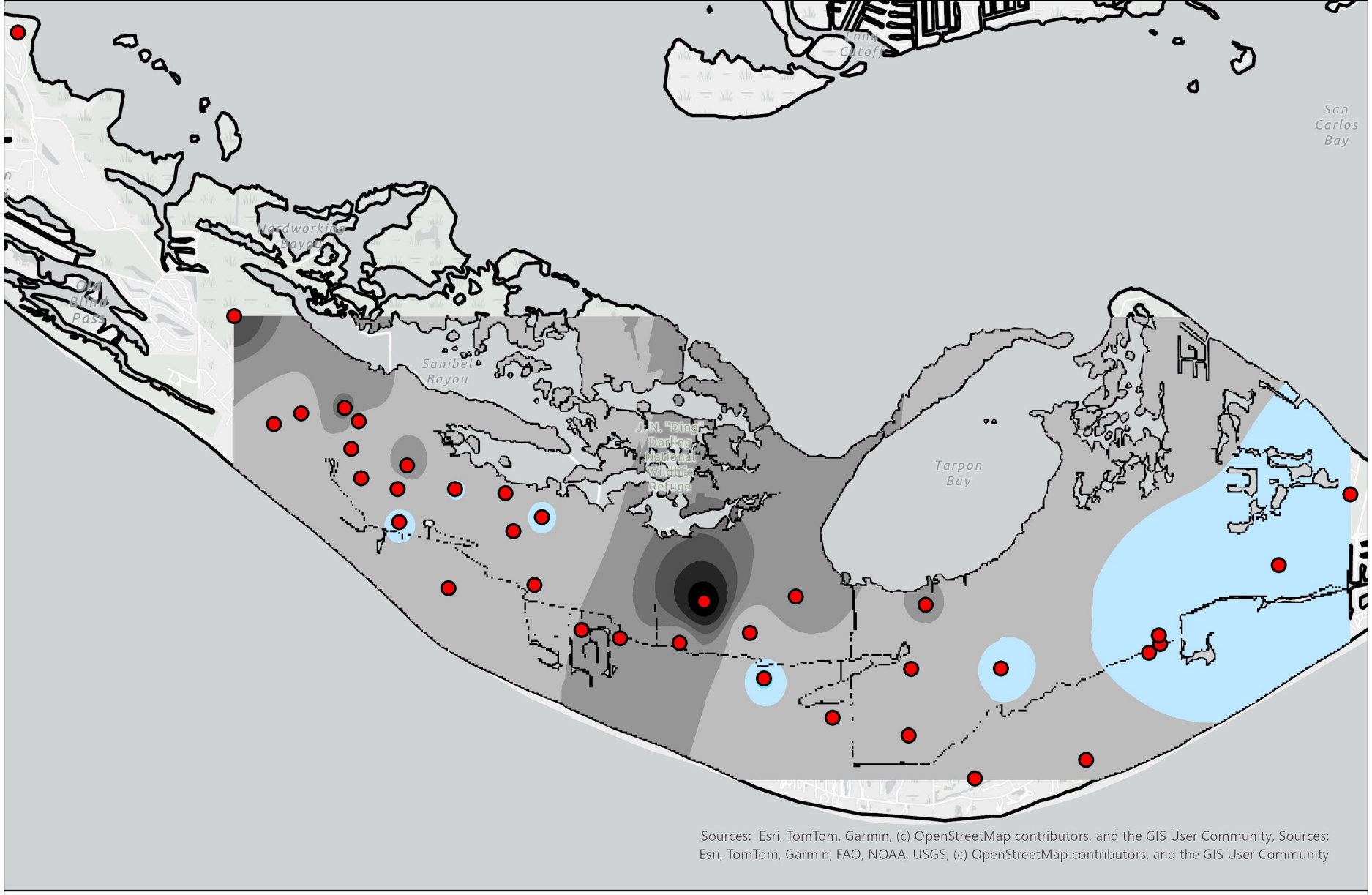


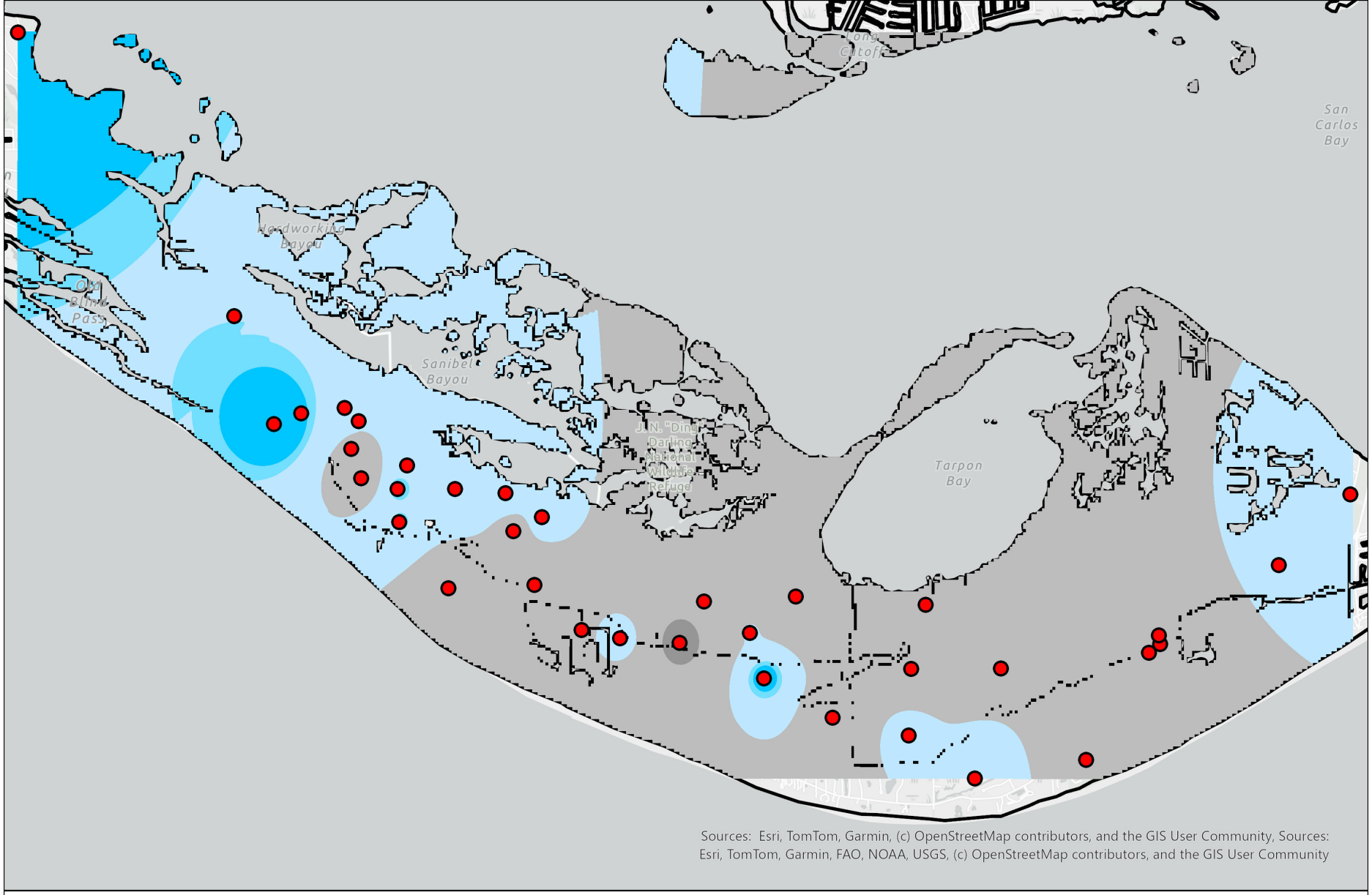


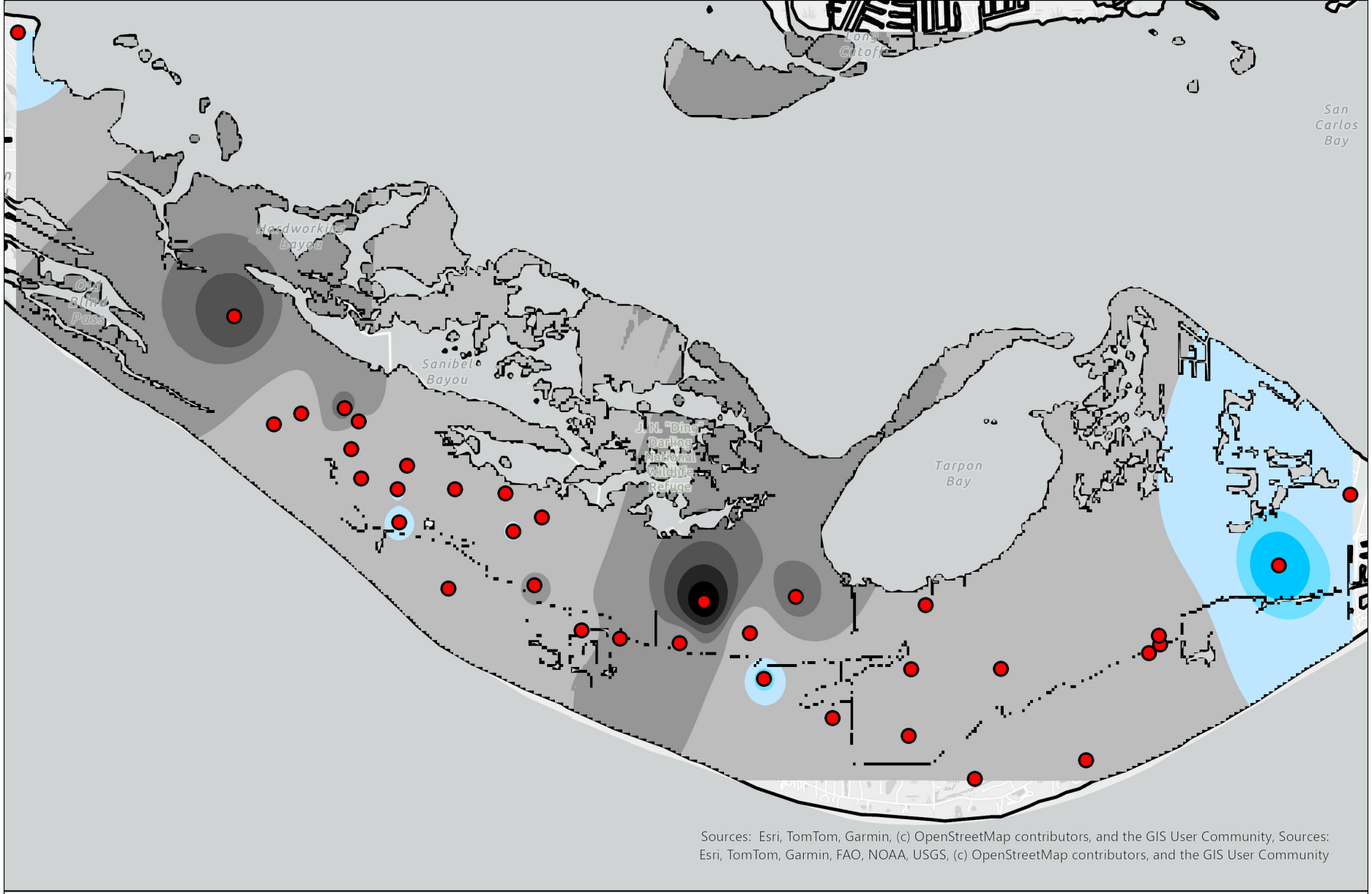



West Slough = 0.31 ft lower than May last year

Well South = 0.60 feet lower than last May

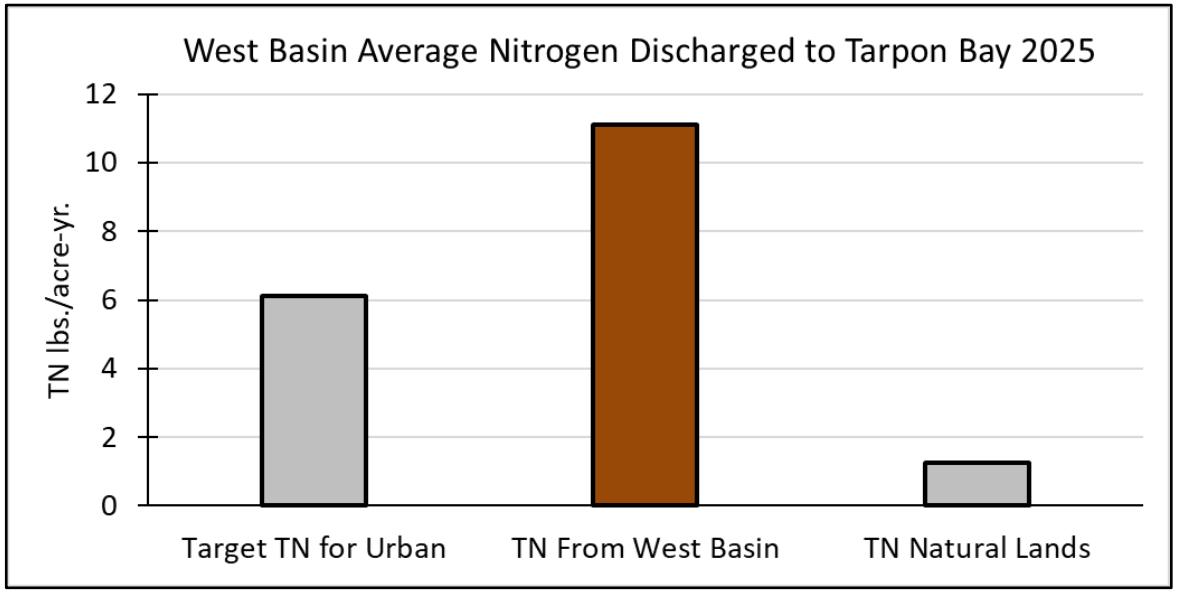

Long Cut
San Carlos Bay
Old Blind Pass
Sanibel Bayou
J.N. "Ding" Darling National Wildlife Refuge
Tarpon Bay
Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community
N
GW Salinity May 2025
5 - 5
6
7 - 10
11 - 21
22 - 25
26 - 30
31 - 36
37 - 45
46 - 57
58 - 70
Wells

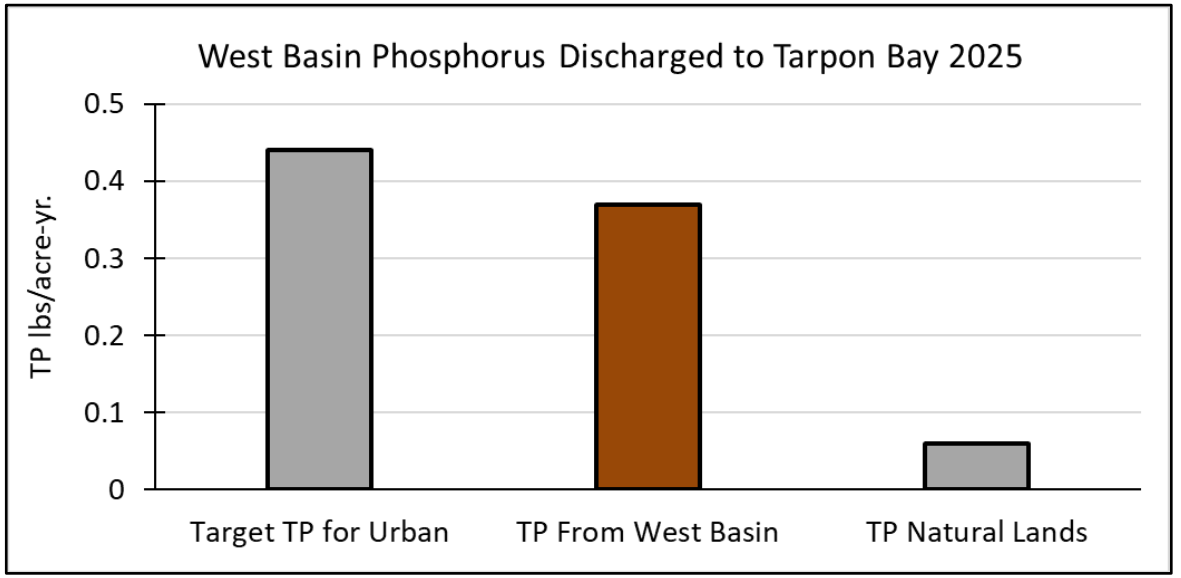

San Carlos Bay
Hardworking Bayou
Old Blind Pass
Sanibel Bayou
J.N. "Ding" Darling National Wildlife Refuge
Tarpon Bay
Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community
N
GW Salinity August 2025
5 - 5
6
7 - 10
11 - 21
22 - 25
26 - 30
31 - 36
37 - 45
46 - 57
58 - 70
Wells


San Carlos Bay
Hardworking Bayou
Old Burnt Pass
Sanibel Bayou
J. N. "Ding" Darling National Wildlife Refuge
Tarpon Bay
Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community
N
GW Salinity February 2026
5 - 5
6
7 - 10
11 - 21
22 - 25
26 - 30
31 - 36
37 - 45
46 - 57
58 - 70
Wells

## West Basin Nutrient Load To Tarpon Bay

| Year | West Basin Area Acres | TN Load lbs | TP Load lbs | TN lb/acre | TP lb/acre |
|---|---|---|---|---|---|
| 2019 | 1978 | 59 | 3 | 0.0 | 0.00 |
| 2020 | 1978 | 35664 | 924 | 18.0 | 0.47 |
| 2021 | 1978 | 7651 | 161 | 3.9 | 0.08 |
| 2022 | 1978 | 5437 | 187 | 2.7 | 0.09 |
| 2023 | 1978 | 1285 | 47 | 0.6 | 0.02 |
| 2024 | 1978 | 45511 | 1963 | 23.0 | 0.99 |
| 2025 | 1978 | 21923 | 727 | 11.1 | 0.37 |



# Summary

- Lakes water quality seems to be improving from post Ian lows. But still poor.
- Canal water quality about the same and very similar to estuary water quality.
- Average lake salinity came down post Milton. Still salty – but rainy season will help.
- Sanibel slough salinity low enough to support cichlids again.
- Groundwater levels are very low and salty – below mean sea level most of dry season. Saltwater intrusion potential.
- Sanibel slough and groundwater are closely related. When slough is below sea level, groundwater is also below sea level.







# Questions

https://sccf.org/

https://sanibelcleanwater.org/



# Sanibel Communities for Clean Water Project

# 2025 Lakes Water Quality and Groundwater Monitoring

October 2025

For The City of Sanibel Natural Resources Department

Submitted by: Mark Thompson, M.S., Research Associate

Eric Milbrandt, Ph.D., Director

900A Tarpon Bay Rd, Sanibel, FL 33957

## *Description of the Project*

Community-owned lakes and stormwater collection systems are the receiving waterbodies for much of Sanibel's stormwater runoff. These systems are designed to retain large volumes of stormwater runoff before discharging offsite. Through this process, stormwater is effectively dissipated through evapotranspiration or directed through the soil and into the groundwater system. Factors such as rainfall, tides, irrigation, insufficient vegetation, and poor system design can allow discharges to surrounding surface water. When discharges from these systems occur, stormwater is conveyed to the Sanibel Slough, a waterbody designated as impaired for nutrients by the Florida Department of Environmental Protection (FDEP) with an assigned Total Maximum Daily Load (TMDL), or to the estuarine and gulf waters surrounding Sanibel. The surficial groundwater aquifer on Sanibel is very shallow and effectively connected to most stormwater ponds through porous soils. In this way, groundwater quality and flow is affected by community stormwater systems and lakes. The discharge of groundwater from Sanibel into the estuary and Gulf is estimated to be of nearly equal or greater total annual volume as stormwater runoff. Knowledge of nutrient concentrations and potential loadings from community stormwater systems and lakes is essential for effective management of nutrient loading sources. Poor water quality can negatively impact our environment, wildlife, human health, property values, and overall quality of life; therefore, it is imperative that we educate citizens of Sanibel on the importance of improving water quality at the local scale.

*The first goal* of this study is to evaluate water quality trends and compare current conditions for 40 sites to water quality criteria. Wet and dry season water quality sampling results will be supplied to the city to be uploaded to the Sanibel Communities for Clean Water website. This website is accessible to the public to provide information on water quality conditions and changes in their community and provides a list of recommended Best Management Practices (BMPs) tailored to specific sites.

Storm surge from Hurricane Ian inundated Sanibel in September 2022. In 2024, Sanibel was completely inundated again two times with Hurricane Helene in September and Hurricane Milton in October. As a result, the freshwater systems on Sanibel have shifted from fresh to salty twice within a three-year period. *The second goal* of this study is to track water quality changes in the former freshwater lakes on Sanibel as they transition from post storm surge conditions. SCCF Marine Laboratory personnel have estimated it may take years for some of the lakes on Sanibel to transition back to freshwater systems with salinity below 3 PSU.

*The third goal* of this year's study was to evaluate the relationship between groundwater and community lakes. Monitoring wells provide data showing ground water characteristics compared to nearby surface water.

## *Methods*

Surface water samples were taken at 40 unique sites on Sanibel in dry and wet seasons (Table 1; Figure 1). Sites include public and privately owned stormwater systems, ponds, lakes, and reservoirs which have possible interaction with Sanibel's surface water or groundwater. Sampling events were conducted in the dry season (April 2025) and wet season (July 2025). To help evaluate changes after the recent surge events (goal 2), data previously collected in 2018, 2020, 2022, 2023, 2024 is combined with the new 2025 data. Samples were analyzed for total phosphate (TP), total nitrogen (TN), nitrate-nitrite (NOx), ammonia (NH3), and total Kjeldahl nitrogen (TKN) using NELAC certified methods by Benchmark Laboratories in Palmetto Florida. In addition to the nutrient sampling, dissolved oxygen (DO), turbidity, colored dissolved organic matter (CDOM), chlorophyll *a*, pH, salinity and temperature data were collected using a portable YSI EXO data sonde at each sampling site. Chlorophyll *a* analyses were performed using EPA approved methodology at the SCCF Marine Laboratory.

After uploading all data into the SCCF water quality database, it was aggregated within an excel spreadsheet and manipulated for input to Minitab13® software for statistical analyses. Descriptive statistics were produced for each site. Median parameter values were compared to water quality criteria using the nonparametric 1-sample Wilcoxson test. A significance level of 0.05 was used in all comparative analyses.

The Trophic State Index (TSI) is based on chlorophyll *a*, total nitrogen, and total phosphorus levels, and was calculated for each of these study lakes following the procedures outlined on pages 86 and 87 of the Florida's 1996 305(b) report. Each waterbody was assigned a water quality grade based upon this study period's TSI values; values above 80 = F, 70-80 = D, 60-70 = C, 50-60 = B, and under 50 = A (Excellent). The grades are based upon TSI values ranging from oligotrophic (good) to hypereutrophic (bad) waterbodies (Carlson and Simpson 1996). Trends in TSI were evaluated for each site for 2016 through August 2025 If the trend in TSI was significant and increasing, the site was listed as having declining water quality while a decreasing TSI trend was identified as improving water quality (Table 2).

Sample sites were ranked based upon combined mean inorganic phosphorus, inorganic nitrogen, chlorophyll *a* concentrations and TSI scores from both sampling events. The mean value of each of these four parameters was used to assign a rank score to each sample site with rank 1 indicating the poorest score for each parameter. The four rank scores were then added together to produce a total rank for each site. Total scores were listed from lowest to highest with lowest scoring site having overall poorest water quality condition.

Continuously recording water depth loggers (Onset Hobo) are installed in wells at 6 sites to provide insight into groundwater-lake interactions (Figure 1, Table 1).

1. Adjacent to the Murex Lakes area.
2. Adjacent to the Sea Oats area.

3. Adjacent to the Sanctuary Golf Course.
4. Adjacent to the Jordan Treatment Marsh.
5. Adjacent to the Dunes Golf Course.
6. Adjacent Periwinkle Way near Pond Apple Park.

Several times during dry and wet season the data loggers were read out and groundwater elevations were measured using a Trimble RTK GPS unit. The elevation data was downloaded and manipulated in an excel spreadsheet to assess groundwater flow directions at each of the sites. Salinity levels of the groundwater and nearby surface water were measured during each data collection event. In addition, we evaluated groundwater elevation data from 27 monitoring wells located west of Tarpon Bay Road in relation to water elevation within the Western Basin of Sanibel Slough. These wells were installed to compliment ongoing research into the Sanibel Island Rice Rat. Time series groundwater levels were compared to western basin water elevation and plotted along. These plots can be used to show relationships between release of water from the Tarpon Bay weir to effects on water levels on Sanibel's interior wetlands.

## *Results and Discussion*

### Current Water Quality and Trends

For the three years following the storm surge events of Ian, Helene and Milton the mean salinity of the monitored lakes was significantly greater than the salinity before Hurricane Ian (Kruskal Wallis, $p < 0.01$, Figure 2). In 2025, salinity ranged from a mean of 32.2 PSU at Annies Pond (SCL32) to 2.9 PSU at the Donax wastewater holding ponds (SCL05). Twenty (20) of the 40 waterbodies monitored have dropped to 5 PSU or less. A significant downward trend in salinity is apparent since April 2025 (Figure 3). Monitoring showed that salinity remained significantly greater in the deeper lakes compared to shallow lakes (Kruskal Wallis, $p < 0.01$, Figure 4). The large volume of high salinity water in deep lakes coupled with small watersheds results in a longer period before they become fresh again. The deep lakes may also interact more significantly with the deepest portion of the surficial aquifer which may have higher salinity.

A time series (Figure 5) of pH since 2016 shows the average pH of lakes sampled is well within acceptable water quality criteria (6.5-8.5). However, pH has been slightly lower since the storm surges. The current pH levels are not harmful to plants or animals, but they indicate that biochemical processes within the lakes are changed after storm surge events, i.e. the instantaneous change from freshwater to saltwater. Anaerobic decomposition of large amounts of new organic matter within the lakes can cause water column pH to be lowered.

Mean chlorophyll *a* (Chla) concentrations for the 2 monitoring events during 2025 ranged from 13.3 ug/l at Dunes Lake 5 (SCL07), to 119.5 ug/l at the Sanibel reclaimed water holding ponds (SCL05) (Table 2). The mean chlorophyll *a* concentration after Hurricane Ian was significantly greater for the monitored sites than previous to Ian (Kruskal-Wallis, $p<0.01$, Figure 6) however the values have been trending downward since Ian. The reason for the current downward trend is not apparent, but monitoring will confirm changes over the long term. As new phytoplankton communities became established in the saltier water after Ian, the increased amounts of carbon and nutrients from hurricane runoff cultivated an increase in the chlorophyll *a*. The Florida DEP chlorophyll *a* water quality criteria for lakes is 20 ug/l while it is 11 ug/l for estuaries (which these lakes more closely resemble due to salinity). Seventy-five percent (75% or 30/40) of lakes monitored for the 2025 report have mean chlorophyll *a* values above the lake water quality criteria. This is a decrease from the 90% of lakes which did not meet water quality criteria during the 2024 monitoring project.

The median total phosphorus (TP) values for the period after Hurricane Ian compared to before could not be found to differ significantly (Kruskal Wallis, $p = 0.376$, Figure 7). Mean TP in the sampled lakes ranged from 0.016 mg/l at Rabbit Road N. Bike Path Lake (SCL51l) to 0.691 mg/l at the Herons Landing Lake (SCL74) (Table 2). Mean TP values at 78% of the lakes were above the FDEP water quality criteria (0.05 mg/l, Figure 7). Thirty-two percent (32%)

were greater than the 90th percentile (0.092 mg/l) of Florida lakes (Hand 2008). This is similar to last year's findings.

The median total nitrogen (TN) values for the period after Hurricane Ian compared to before were found to be significantly lower after the hurricane (Kruskal Wallis, $p < 0.01$ Figure 8). The lower TN after hurricane Ian, Helene and Milton was likely due to dilution with Gulf and estuary waters which have significantly lower nitrogen concentrations than most lakes. The mean TN concentration in lakes ranged from 4.45 mg/l at Annies Pond (SCL32) to 0.66 mg/l at Gumbo Limbo eastern lake (SCL11) (Table 2). Sixty-five percent (65%) of the sites had TN values above the Florida criteria for lakes (1.27 mg/l, Table 2). About 41% of sites had mean TN above the 90$^{th}$ percentile of all lakes in Florida (1.72 mg/l). This is an improvement from the 2024 findings. During the 2025 project period, IN made up an average of 8% of the TN value. This is the same as 2024 and less than the 11% in 2023. Increased IN since the Hurricanes (Figure 9) may be associated with wastewater overflows during surge events, and decomposition of other organic material washed into lakes from the surrounding lands.

TSI scores are meant to be an integrated look at the magnitude of eutrophication in a lake. Phosphorus, nitrogen and chlorophyll *a* are factors used to calculate a TSI value, so it is a good initial estimation of a lake's overall eutrophic condition. FDEP considers scores over 60 to indicate poor water quality and scores greater than 60 trigger evaluation of waterbodies for impairment. Thirty-two out of 40 (80%) lakes sampled this year had TSI scores greater than 60. Scores ranged from 57.2 at the East Rocks western Lake (SCL55) to 92.65 at the Herons Landing Western Lake (SCL74) (Table 2). No significant difference could be found for TSI scores after Hurricane Ian than before (Kruskal Wallis, $p = 0.98$, Figure 10).

The median fluorescent dissolved organic matter (FDOM) values of sampled lakes were found to be significantly greater for the period after Hurricane Ian compared to before (Kruskal Wallis, $p < 0.01$ and, Figure 11). Usually, FDOM is inversely related to salinity, however the colored organic matter which makes up FDOM was flushed into area waterbodies by saltwater surge instead of the usual freshwater precipitation.

Turbidity after Ian was significantly greater than the period before Ian (Kruskal Wallis, $p = 0.01$) (Figure 12). Potential drivers of the increase in turbidity include loss of aquatic vegetation within the lakes, suspended sediment associated with surge and stormwater, debris and altered biological and chemical characteristics of the waterbodies. Months after a hurricane surge event most added suspended solid will settle out, and lake clarity will mainly depend upon the phytoplankton stock (chlorophyll a) more than changes in turbidity or FDOM.

Upon grading Sanibel waterbodies based upon the TSI score, 6 waterbodies (15%) received a water quality grade of B; 18 (45%) received a C, 12 (30%) received a D and 4 (10%) received a grade of F (Table 2). This is an improvement in overall water quality conditions since 2022 (pre-Ian) when 51% of the lakes surveyed were graded D or F. Additionally, trend analysis

on TSI scores since 2016 found 11 of the 40 (27%) waterbodies analyzed this year were improving during that period. The three surge events from 2022-2024 are likely to have had the greatest influence on this change, diluting polluted lakes with less polluted water from the Gulf.

Regardless of how an individual lake was ranked relative to other lakes on Sanibel, the water quality grade will give a better indication of its actual current health. If a lake has an F or D water quality grade – the water quality is very poor. A majority of Sanibel's formerly fresh waterbodies are eutrophic, and nutrient-enriched with high primary production leading to algal blooms. This statement was as true before the recent hurricanes as it is afterwards.

The water quality of lakes was ranked following procedures described in the methods section producing a prioritized list of lakes on Sanibel with water quality concerns (Table 2). Those with the highest rank are potentially most polluted and should be afforded the greatest resources in addressing their problems. The current ranked results are in a table with results from 2024, 2023, 2022, 2020, 2018 and 2016 (Table 2).

**Groundwater-Surface Water Relationships**

As determined in the 2024 Sanibel Communities for Clean Waters study (2024 study - Thompson 2024) groundwater flow direction (hydraulic gradient) in 6 study areas was generally toward nearby lakes (Figures 13-18). Evapotranspiration from a lake produces a virtual pump which carries water away from lake storage. However, areas which were adjacent to the Sanibel Slough could vary greatly in flow direction depending on the antecedent rain and water elevation of the Sanibel Slough. Water levels in the Slough can be held artificially high or low causing groundwater hydraulic gradients away or towards the slough instead of reliably towards a nearby surface water body.

Similarly, the reclaimed water ponds at Pond Apple Park are typically kept filled to an elevation significantly above the surrounding surficial aquifer. This creates a hydraulic gradient which causes water to flow continuously away from the ponds.

As found in the 2024 study, salinity in groundwater was generally lower than in adjacent surface water (Figures 19-20). Combined with the findings that groundwater normally flowed toward surface water, groundwater provides a salinity-reducing effect on adjacent surface waters. Though this lower salinity water flows into saltier lakes – the flowrates can be very low, and the overall dilution effect may be less than effects of surface water inflow or other factors.

**Additional Findings**

Interpolated maps of lake salinity in September 2024 (before Helene and Milton), October 2024 (after Helene and Milton) and in August 2025 show salt concentrations were lower before the storm surges of late summer 2024 but have now been reduced due to wet season rains (Figure 21). Shallow ponds monitored by SCCF Habitat Management Department show

significant decrease in average salinity in those waterbodies (Figure 22). An interpolated map of lake chlorophyll *a* across Sanibel shows lower chlorophyll *a* values across Sanibel in the wet season of 2025 compared to the wet season of 2024 (Figure 23).

Groundwater monitoring wells installed within the West Basin watershed of the Sanibel Slough were used to evaluate the relationship between West Basin stage and groundwater elevation.

During the period in which these wells were providing data (April 2024 to present), the water elevation at the West Basin weir (stage) was generally greater than the 8 groundwater stations nearest the slough (Figure 24). This suggests the water in the West Basin provided groundwater flow from the slough and to surrounding land types such as wetlands. The Sanibel Slough is a channelized canal cut deeper than the average groundwater level on Sanibel. The control weirs on the Sanibel Slough allow the water level to be raised or lowered below the groundwater elevation. If the elevation within the slough is lowered, the interior wetlands become dry, much like the environmental disaster which occurred in the Everglades after canals were dug to drain those wetlands. Figure 25 shows a period in August 2025 when the Western Basin stage was aggressively lowered after large rainfall events. Releases of water from the western slough at the Tarpon Bay Weir resulted in a lowering of the water levels in the interior wetland areas of Sanibel. This is shown by the progression of GIS-generated figures from August 3rd through August 31st, 2025 (Figure 26).

## *Conclusions*

Hurricanes Ian, Helene and Milton had significant water quality impacts on the community lakes and groundwater of Sanibel. On September 28, 2022, the freshwater lakes, wetlands and ponds of Sanibel were instantaneously converted to saline waterbodies. Again in 2024, three surge events (Tropical Storm Debby, Hurricane Helene, and Hurricane Milton) inundated Sanibel. Freshwater ecosystems were destroyed, and transient saline-water ecosystems have now developed. Some lakes and ponds are once again showing a significant decrease in salinity due to the precipitation during 2025. It may be many years before the deeper lakes of Sanibel can support freshwater flora and fauna again. However freshwater wetlands and the Sanibel Slough are well on their way to becoming fresh again as of August 2025. In the lakes which receive inputs of reclaimed wastewater through irrigation, salinity has recovered more quickly. Deep lakes with small watersheds will continue to have estuarine level salinities for the foreseeable future.

Lakes were ranked from poorest (ranked 1st priority) overall water quality to those with the least impairment (ranked 40). The lakes with poorest water quality can be targeted for lake management plan development and other pertinent BMPs once the source of poor water quality is identified. In general, lakes on Sanibel are eutrophic to hyper-eutrophic with relatively high nitrogen and phosphorus concentrations and abundant phytoplankton. The storm surges from

recent hurricanes may have changed the salinity characteristics of the lakes, but the persistent phytoplankton blooms and low dissolved oxygen problems during cloudy days continue. Low dissolved oxygen conditions which occasionally develop in Sanibel lakes due to their eutrophic state, will be more likely to cause the death of estuarine fish which are currently in many Sanibel waterbodies.

In general, groundwater on Sanibel currently has lower salinity but higher nutrient concentrations than adjacent surface water. Groundwater normally flows towards lakes as a result of evapotranspiration, and this can help lower lake salinity but can also be detrimental because it will increase nutrient concentrations (and eutrophication) in the lakes. Evapotranspiration rates of vegetation were estimated from monitoring well drawdown using accepted methods. Evapotranspiration from healthy trees can equal rainfall during the wet season and exceed rainfall during dry season (USGS, 2025https://www.usgs.gov/centers/caribbean-florida-water-science-center-%28cfwsc%29/science/science-topics/actual). An analysis by Johnson Engineering (2024) found that Sanibel's vegetation index (NDVI) decreased significantly after hurricane Ian, suggesting its vegetation coverage is significantly reduced. A recovery in NDVI was observed in 2023 but did not reach pre-Ian values before once again decreasing following the storms in 2024. Reduced vegetation coverage would reduce evapotranspiration and thus reduce the rate of stormwater removal from the island. This can result in more standing water for longer periods of time in areas which have reduced vegetation.

Attached file: ComLakesDat_2025.xlsx

## *Figures and Tables*

Table 1. Location of lake and groundwater sampling sites for this project. Table of groundwater monitoring wells and the surface water adjacent to them.

| SiteID | Site | Type | Lat | Long |
|---|---|---|---|---|
| Devitt01 | Pond at SCCF Homestead | Lake | 26.44440 | -82.04939 |
| JM02 | Jordan Marsh Effluent | Lake | 26.43862 | -82.05810 |
| SCL02 | BeachRdVillasPnd | Lake | 26.44554 | -82.04058 |
| SCL03 | PeriwnklePrkDuckPnd | Lake | 26.44338 | -82.04332 |
| SCL05 | CityReclaimDschrge | Lake | 26.44571 | -82.04570 |
| SCL07 | DunesLake5 | Lake | 26.45300 | -82.04227 |
| SCL08 | DunesLake4 | Lake | 26.45515 | -82.05254 |
| SCL11 | GumboLimboEast | Lake | 26.44465 | -82.05816 |
| SCL13 | SanGolfReclmPnd | Lake | 26.43910 | -82.05151 |
| SCL18 | SanibelLakeEst 1806_IbisLn_or_1995_Roseate | Lake | 26.4360386 | -82.06534666 |
| SCL21 | OceansReachCondo | Lake | 26.42559423 | -82.0675629 |
| SCL23 | PeriwinklePlaceSW | Lake | 26.43734917 | -82.06837736 |
| SCL25 | PeriwinklePinesSW | Lake | 26.43915036 | -82.07039688 |
| SCL26 | CasaYbel | Lake | 26.42493 | -82.07111 |
| SCL29 | SanibelCottages | Lake | 26.42337 | -82.07602 |
| SCL30 | Pointe Santos | Lake | 26.42268 | -82.07734 |
| SCL31 | BaileysPond | Lake | 26.43361 | -82.07880 |
| SCL32 | AniPondBailyTract | Lake | 26.42813349 | -82.08198178 |
| SCL35 | SeagullEstates - Daniel Lane _ western small lake | Lake | 26.42519685 | -82.08647547 |
| SCL37 | SmithLkBaileyTrct | Lake | 26.43112 | -82.08708 |
| SCL41 | HurricaneLane at Dock | Lake | 26.4265256 | -82.09170041 |
| SCL43 | PalmLake | Lake | 26.42626 | -82.09312 |
| SCL45 | NPoincianaPond Poinciana off Island Inn | Lake | 26.43066475 | -82.0943386 |
| SCL46 | Brghtwter_IslandInn | Lake | 26.4289865 | -82.0962015 |
| SCL47 | NlakeMurex | Lake | 26.433161 | -82.096812 |
| SCL48 | SLakeMurex | Lake | 26.43137 | -82.09683 |
| SCL50 | StIsabelCathChrch | Lake | 26.44117 | -82.10718 |
| SCL51 | NBikePathlake | Lake | 26.43916321 | -82.10848682 |
| SCL53 | SeaOatsDrSmlLake | Lake | 26.43259396 | -82.10993543 |
| SCL55 | ERockWestEndCoquina | Lake | 26.43773 | -82.11592 |
| SCL56 | WRockEastEndCoquina | Lake | 26.43802 | -82.11892 |
| SCL57 | GulfPines Near Tennis Courts | Lake | 26.44434064 | -82.12827171 |
| SCL60 | WhiteIbisGulfPines | Lake | 26.44600475 | -82.13462191 |
| SCL62 | ChateauSurMerLake | Lake | 26.45264 | -82.13939 |
| SCL64 | TradewindsNLake | Lake | 26.45389 | -82.14111 |
| SCL69 | SanctuaryLake4 | Lake | 26.47680143 | -82.1666622 |
| SCL70 | BluCrabLake | Lake | 26.47856434 | -82.17064221 |
| SCL71 | SanctuaryLake7 | Lake | 26.49135 | -82.17098 |
| SCL74 | Herons Landing Lake | Lake | 26.47001 | -82.15974 |
| SCL80 | East Hollys Pond | Lake | 26.469667 | -82.159048 |

| Site ID | Site Type | Description | Lat | Long |
|---|---|---|---|---|
| GW01 | Monitoring Well | South of Reclaim PondsPond Apple | 26.445252 | -82.045822 |
| GW02 | Monitoring Well | West of Reclaim PondsPond Apple | 26.446874 | -82.046014 |
| GW03 | Monitoring Well | North of Reclaim Ponds w BarometricPond Apple | 26.447986 | -82.045064 |
| GW04 | Monitoring Well | East of Reclaim PondsPond Apple | 26.446953 | -82.043791 |
| GW05 | Monitoring Well | Farther East of Reclaim PondsPond Apple | 26.447039 | -82.042662 |
| GW06 | Monitoring Well | NE Corner of Murex LakesLake Murex | 26.434401 | -82.096562 |
| GW07 | Monitoring Well | NE Corner of Murex LakesLake Murex | 26.434725 | -82.09679 |
| GW08 | Monitoring Well | SW Corner of Murex LakesLake Murex | 26.430139 | -82.103857 |
| GW09 | Monitoring Well | SW Corner of Murex LakesLake Murex | 26.429453 | -82.104676 |
| GW10 | Monitoring Well | SW Corner Jordan MarshJordan Marsh | 26.438558 | -82.057874 |
| GW11 | Monitoring Well | Mid JMarsh SouthsideJordan Marsh | 26.439291 | -82.056822 |
| GW12 | Monitoring Well | SW Jmarsh Just N of Sanibel SloughJordan Marsh | 26.43779 | -82.057742 |
| GW13 | Monitoring Well | Mid Sanibel Slough and JMarsh East Jordan Marsh | 26.438805 | -82.056074 |
| GW14 | Monitoring Well | Pond Apple Park just off Bailey RdDunes/PondApple | 26.448805 | -82.040337 |
| GW15 | Monitoring Well | South of Lake 7 in TreesSanctuary | 26.489616 | -82.170759 |
| GW16 | Monitoring Well | West of Lake 7 in MangrovesSanctuary | 26.490618 | -82.173315 |
| GW17 | Monitoring Well | The ShackPond Apple | 26.444776 | -82.046063 |
| GW18 | Monitoring Well | Bailey Rd East of Dunes Lake 5Dunes | 26.451082 | -82.039014 |
| GW19 | Monitoring Well | Bay Rd North of Lake 5Dunes | 26.455438 | -82.041668 |
| GW20 | Monitoring Well | NE Lake 5 near Tennis CourtsDunes | 26.453699 | -82.040941 |
| GW21 | Monitoring Well | S of Lake 5 behind house on SandcastleDunes | 26.451326 | -82.041229 |
| GW22 | Monitoring Well | East of Lake 7 off Wulfert RdSanctuary | 26.490834 | -82.169861 |
| GW23 | Monitoring Well | NE Lake 7 off Wulfert RdSanctuary | 26.491958 | -82.170398 |
| GW24 | Monitoring Well | Southern Well Between Sea Oats and Sanibel SloughSea Oats | 26.437196 | -82.110271 |
| GW25 | Monitoring Well | Middle Well Between Sea Oats and Sanibel SloughSea Oats | 26.43762 | -82.110539 |
| GW26 | Monitoring Well | Northern Well Between Sea Oats and Sanibel SloughSea Oats | 26.438274 | -82.110956 |

| Groundwater Site | Additional GW Site | Surface Water Site | Surface Water Description |
|---|---|---|---|
| GW01 | GW17 | SCL05 | Pondapple |
| GW06 | GW07 | SCL47 | Murex |
| GW10 | | JM02 | JM |
| GW12 | | WQ06 | EBasin |
| GW20 | GW18 | SCL07 | Dunes |
| GW23 | | SCL71 | Sanctuary |
| GW25 | | SCL54 | SeaOats |
| GW26 | | WQ04 | WBasin |

Figure 1. Sampling locations for this study. Lakes were sampled at 40 representative sites (red points) and 6 long-term groundwater monitoring wells (blue points).

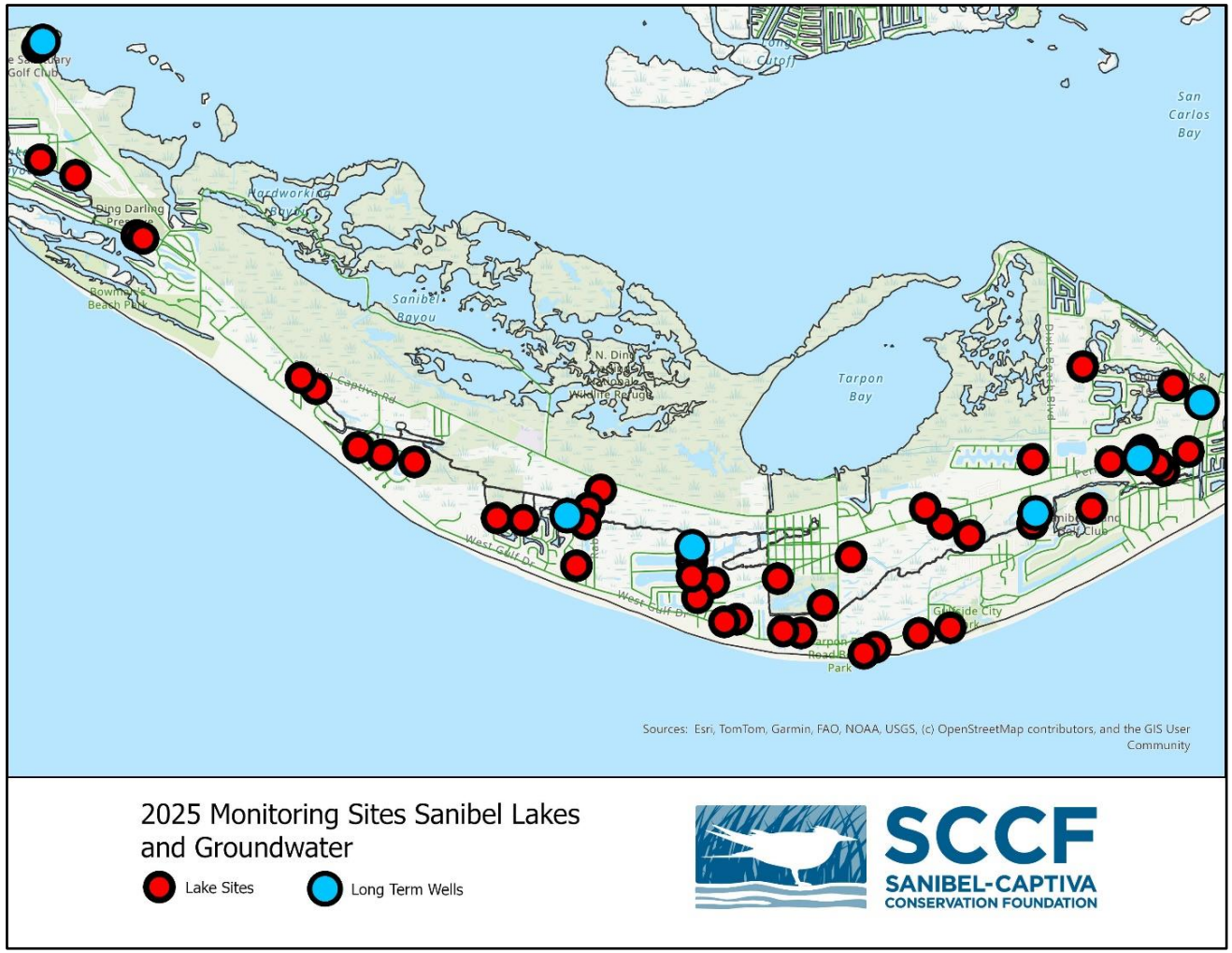


Table 2. Ranking of sample sites from poorest to better water quality showing mean water quality data for 2025. All parameter values shown are averages of wet and dry season results.

| Prority Rank | Station | Description | WQ Grade | WQ Trend | IN mg/l | TN mg/l | OP mg/l | TP mg/l | Chla ug/l | TSI | NH3 mg/l | NOx mg/l | TKN mg/l | Salinity PSU | FDOM QSE | DO % | DO mg/l | Turbidity NTU | pH | Water Temp C | IN Rank | TP Rank | Chla Rank | TSI Rank | Total Score | 2024 Grade | 2023 Grade | 2020 Grade | 2018 Grade | 2016 Grade |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SCL05 | CityReclaimDschrge | F | NC | 0.849 | 2.34 | 0.387 | 0.374 | 119.5 | 84.1 | 0.510 | 0.339 | 2.00 | 2.9 | 159 | 173 | 12.3 | 10.2 | 8.92 | 25.0 | 2 | 3 | 1 | 2 | 8 | F | F | F | F | F |
| 2 | SCL74 | Herons Landing Lake | F | Better | 0.556 | 2.64 | 0.753 | 0.691 | 93.5 | 92.7 | 0.522 | 0.035 | 2.60 | 23.6 | 268 | 101 | 6.6 | 12.1 | 7.89 | 31.5 | 3 | 1 | 4 | 1 | 9 | F | F | F | F | NR |
| 3 | SCL29 | SanibelCottages | F | NC | 0.084 | 1.58 | 0.007 | 0.356 | 73.8 | 83.9 | 0.063 | 0.021 | 1.56 | 9.6 | 198 | 48 | 3.6 | 55.3 | 8.12 | 27.7 | 18 | 4 | 6 | 3 | 31 | | | | | |
| 4 | SCL35 | Seagull Est Daniel Ln Western Lake | D | NC | 0.181 | 2.87 | 0.045 | 0.095 | 50.8 | 76.1 | 0.171 | 0.011 | 2.86 | 15.5 | 313 | 121 | 8.4 | 7.2 | 8.30 | 30.2 | 9 | 13 | 11 | 9 | 42 | D | | F | F | F |
| 5 | SanSlough | West Basin Sanibel Slough | D | NC | 0.480 | 2.45 | 0.010 | 0.09 | 51.6 | 73.3 | 0.394 | 0.1 | 2.36 | 20.5 | | 27 | 2.0 | 9.0 | 7.9 | 26.4 | 5 | 15 | 10 | 13 | 43 | D | F | D | D | C |
| 6 | SCL32 | AniPondBailyTract | D | NC | 1.010 | 4.45 | 0.078 | 0.098 | 34.3 | 74.5 | 0.989 | 0.021 | 4.43 | 32.2 | 415 | 56 | 3.7 | 22.9 | 8.34 | 28.4 | 1 | 12 | 21 | 10 | 44 | F | | D | F | D |
| 7 | SCL80 | East Hollys Pond | D | Better | 0.155 | 3.36 | 0.065 | 0.092 | 43.5 | 77.6 | 0.132 | 0.024 | 3.33 | 17.2 | 228 | 73 | 4.6 | 27.2 | 7.69 | 34.3 | 12 | 14 | 13 | 6 | 45 | F | | F | F | NR |
| 8 | SanSlough | East Basin Sanibel Slough | D | NC | 0.325 | 1.883 | 0.060 | 0.135 | 36 | 73.6 | 0.301 | 0 | 1.86 | 14.7 | | 19 | 1.4 | 12.0 | 7.7 | 26.6 | 6 | 10 | 19 | 12 | 47 | D | F | D | D | D |
| 9 | SCL03 | PrwnklePrkDuckPond | F | NC | 0.053 | 2.15 | 0.008 | 0.158 | 108.6 | 82.0 | 0.036 | 0.017 | 2.14 | 12.0 | 272 | 113 | 8.1 | 21.5 | 8.3 | 28.9 | 36 | 9 | 3 | 4 | 52 | D | | F | F | D |
| 10 | SCL69 | SanctuaryLake4 | D | NC | 0.066 | 1.42 | 0.089 | 0.229 | 41.0 | 77.2 | 0.051 | 0.015 | 1.40 | 10.7 | 244 | 69 | 5.0 | 8.4 | 7.88 | 28.8 | 25 | 7 | 14 | 7 | 53 | D | | F | F | F |
| 11 | SCL13 | SanGolfReclmPnd | D | NC | 0.056 | 0.98 | 0.801 | 0.673 | 37.3 | 78.0 | 0.044 | 0.012 | 0.97 | 3.5 | 123 | 223 | 16.4 | 9.2 | 9.19 | 29.9 | 32 | 2 | 17 | 5 | 56 | F | F | F | F | F |
| 12 | SCL60 | WhiteIbisGulfPines | D | NC | 0.090 | 2.50 | 0.012 | 0.061 | 56.3 | 74.3 | 0.070 | 0.020 | 2.48 | 13.1 | 353 | 36 | 2.5 | 11.3 | 7.82 | 30.2 | 17 | 25 | 8 | 11 | 61 | F | | D | D | C |
| 13 | SCL45 | Pond - Poinciana off Island Inn | D | NC | 0.118 | 1.70 | 0.013 | 0.054 | 118.4 | 72.7 | 0.105 | 0.013 | 1.69 | 9.7 | 279 | 136 | 10.3 | 19.1 | 8.70 | -8.2 | 15 | 30 | 2 | 14 | 61 | D | | C | C | C |
| 14 | SCL26 | CasaYbel | D | NC | 0.072 | 1.22 | 0.002 | 0.126 | 49.9 | 72.4 | 0.056 | 0.016 | 1.20 | 6.3 | 191 | 39 | 2.8 | 13.2 | 8.03 | 28.6 | 22 | 11 | 12 | 16 | 61 | F | C | D | D | D |
| 15 | SCL31 | BaileysPond | C | NC | 0.125 | 1.52 | 0.059 | 0.065 | 80.9 | 70.4 | 0.104 | 0.021 | 1.50 | 13.3 | 292 | 48 | 3.4 | 27.7 | 7.46 | 29.0 | 13 | 24 | 5 | 20 | 62 | D | D | C | C | C |
| 16 | SCL71 | SanctuaryLake7 | D | NC | 0.058 | 1.55 | 0.083 | 0.238 | 34.7 | 76.8 | 0.044 | 0.014 | 1.54 | 8.3 | 256 | 105 | 7.6 | 4.9 | 8.27 | 30.2 | 31 | 5 | 20 | 8 | 64 | F | D | F | F | F |
| 17 | SCL62 | ChateauSurMerLake | D | NC | 0.073 | 2.20 | 0.009 | 0.061 | 39.9 | 72.6 | 0.059 | 0.014 | 2.19 | 11.2 | 290 | 117 | 8.1 | 12.0 | 8.04 | 31.3 | 21 | 26 | 15 | 15 | 77 | D | D | D | D | C |
| 18 | Devitt01 | Pond at SCCF Homestead | D | NC | 0.070 | 1.20 | * | 0.23 | 15.3 | 72.4 | 0.06 | 0.015 | 1.18 | 4.3 | 303 | 89 | 6.2 | 7.6 | 8.39 | 32.9 | 23 | 6 | 39 | 17 | 85 | F | F | D | D | C |
| 19 | SCL21 | OceansReachCondo | C | NC | 0.167 | 1.53 | 0.002 | 0.077 | 23.3 | 67.9 | 0.153 | 0.014 | 1.51 | 20.4 | 209 | 38 | 2.6 | 25.0 | 8.03 | 29.1 | 10 | 19 | 32 | 27 | 88 | D | | B | C | C |
| 20 | SCL43 | PalmLake | C | NC | 0.163 | 1.16 | 0.027 | 0.068 | 29.2 | 66.7 | 0.146 | 0.017 | 1.15 | 25.0 | 130 | 86 | 5.6 | 8.8 | 8.10 | 30.8 | 11 | 23 | 25 | 30 | 89 | D | D | C | C | C |

Table 2 (cont.). Ranking sample sites from poorest to better water quality showing mean water quality data for 2025. All parameter values shown are averages of wet and dry season results.

| Prority Rank | Station | Description | WQ Grade | WQ Trend | IN mg/l | TN mg/l | OP mg/l | TP mg/l | Chla ug/l | TSI | NH3 mg/l | NOx mg/l | TKN mg/l | Salinity PSU | FDOM QSE | DO % | DO mg/l | Turbidity NTU | pH | Water Temp C | IN Rank | TP Rank | Chla Rank | TSI Rank | Total Score | 2024 Grade | 2023 Grade | 2020 Grade | 2018 Grade | 2016 Grade |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | SCL64 | TradewindsNLake | C | Better | 0.059 | 1.24 | 0.008 | 0.071 | 39.3 | 69.0 | 0.044 | 0.015 | 1.23 | 6.4 | 233 | 86 | 6.2 | 8.9 | 7.91 | 30.3 | 30 | 20 | 16 | 25 | 91 | C | C | D | D | D |
| 22 | SCL70 | BluCrabLake | C | Better | 0.121 | 1.45 | 0.007 | 0.085 | 23.4 | 67.0 | 0.104 | 0.017 | 1.43 | 27.6 | 266 | 44 | 2.8 | 4.1 | 7.74 | 32.7 | 14 | 17 | 31 | 29 | 91 | D | | D | F | F |
| 23 | SCL48 | SLakeMurex | D | Worse | 0.055 | 1.66 | 0.022 | 0.082 | 34.1 | 71.4 | 0.040 | 0.016 | 1.64 | 18.9 | 121 | 95 | 6.7 | 41.9 | 8.39 | 27.6 | 33 | 18 | 23 | 18 | 92 | D | D | D | C | C |
| 24 | JM02 | Jordan Marsh Effluent | C | Better | 0.097 | 1.89 | * | 0.05 | 33.2 | 69.8 | 0.08 | 0.019 | 1.87 | 3.9 | 279 | 103 | 7.1 | 7.4 | 8.37 | 34.2 | 16 | 31 | 24 | 22 | 93 | C | D | | | |
| 25 | SCL18 | SanibelLakeEst Ibis Ln. | C | NC | 0.250 | 1.46 | 0.044 | 0.060 | 26.9 | 66.0 | 0.217 | 0.033 | 1.43 | 11.9 | 321 | 37 | 2.6 | 1.8 | 7.66 | 31.3 | 7 | 27 | 28 | 32 | 94 | C | | C | C | C |
| 26 | SCL41 | HurricaneLane at Dock | C | NC | 0.061 | 1.81 | 0.052 | 0.069 | 29.1 | 70.2 | 0.042 | 0.020 | 1.79 | 18.6 | 192 | 76 | 5.1 | 21.4 | 8.19 | 30.8 | 28 | 22 | 26 | 21 | 97 | D | | C | C | C |
| 27 | SCL25 | PeriwinklePinesSW | C | NC | 0.054 | 1.13 | 0.035 | 0.046 | 66.2 | 68.8 | 0.038 | 0.017 | 1.12 | 7.4 | 245 | 93 | 6.4 | 5.8 | 8.23 | 32.1 | 34 | 33 | 7 | 26 | 100 | C | | C | D | C |
| 28 | SCL08 | DunesLake4 | C | NC | 0.065 | 0.91 | 0.009 | 0.087 | 27.3 | 66.3 | 0.053 | 0.012 | 0.90 | 16.6 | 187 | 87 | 6.0 | 7.5 | 7.82 | 29.8 | 26 | 16 | 27 | 31 | 100 | F | F | D | F | D |
| 29 | SCL47 | NlakeMurex | C | NC | 0.054 | 2.38 | 0.046 | 0.036 | 56.3 | 69.7 | 0.031 | 0.023 | 2.36 | 21.0 | 93 | 109 | 7.7 | 10.1 | 9.02 | 28.6 | 35 | 37 | 9 | 23 | 104 | C | | D | D | D |
| 30 | SCL23 | PeriwinklePlaceSW | C | NC | 0.050 | 0.98 | 0.002 | 0.070 | 37.1 | 67.3 | 0.037 | 0.013 | 0.97 | 4.8 | 220 | 74 | 5.4 | 19.2 | 8.17 | 30.4 | 37 | 21 | 18 | 28 | 104 | D | | C | C | B |
| 31 | SCL07 | DunesLake5 | C | NC | 0.048 | 1.16 | 0.236 | 0.215 | 13.3 | 70.7 | 0.034 | 0.014 | 1.14 | 12.1 | 207 | 74 | 5.3 | 8.7 | 8.11 | 30.3 | 38 | 8 | 41 | 19 | 106 | F | D | F | D | D |
| 32 | SCL56 | WRockEastEndCoquina | C | NC | 0.076 | 3.92 | 0.010 | 0.043 | 22.2 | 69.0 | 0.061 | 0.016 | 3.91 | 16.6 | 170 | 84 | 5.8 | 6.8 | 7.96 | 30.0 | 20 | 34 | 33 | 24 | 111 | D | D | C | D | C |
| 33 | SCL30 | Pointe Santos | B | Better | 0.062 | 0.71 | 0.006 | 0.056 | 20.0 | 60.8 | 0.045 | 0.018 | 0.69 | 8.2 | 137 | 89 | 6.6 | 11.4 | 8.53 | 29.1 | 27 | 28 | 34 | 38 | 127 | D | D | C | D | C |
| 34 | SCL51 | NBikePathlake | B | Better | 0.227 | 1.94 | 0.002 | 0.016 | 16.2 | 58.1 | 0.203 | 0.024 | 1.92 | 18.7 | 206 | 86 | 5.8 | 5.3 | 7.84 | 31.5 | 8 | 42 | 37 | 40 | 127 | C | | F | D | D |
| 35 | SCL37 | SmithLkBaileyTrct | B | Better | 0.532 | 1.86 | * | 0.027 | 4.8 | 56.3 | 0.518 | 0.014 | 1.85 | 16.8 | 406 | 50 | 3.2 | 2.0 | 7.60 | 34.3 | 4 | 40 | 42 | 42 | 128 | C | C | C | D | C |
| 36 | SCL11 | GumboLimboEast | B | Better | 0.048 | 0.66 | 0.003 | 0.051 | 34.3 | 60.8 | 0.035 | 0.013 | 0.65 | 10.0 | 216 | 41 | 3.0 | 4.9 | 7.58 | 29.5 | 39 | 32 | 22 | 37 | 130 | C | C | D | D | D |
| 37 | SCL57 | GulfPines Near Tennis Courts | C | NC | 0.083 | 2.00 | 0.005 | 0.031 | 13.6 | 61.9 | 0.068 | 0.015 | 1.98 | 18.8 | 318 | 75 | 5.1 | 5.5 | 7.90 | 30.6 | 19 | 39 | 40 | 34 | 132 | F | | D | D | C |
| 38 | SCL50 | StIsabelCathChrch | B | Better | 0.061 | 0.90 | 0.004 | 0.034 | 24.7 | 59.1 | 0.048 | 0.013 | 0.89 | 14.8 | 223 | 67 | 8.2 | 16.2 | 8.13 | -8.0 | 29 | 38 | 30 | 39 | 136 | D | F | F | F | D |
| 39 | SCL53 | SeaOatsDrSmlLake | C | NC | 0.046 | 1.26 | 0.026 | 0.056 | 18.7 | 64.4 | 0.033 | 0.013 | 1.25 | 3.6 | 221 | 76 | 5.6 | 9.1 | 7.85 | 30.1 | 41 | 29 | 35 | 33 | 138 | C | | C | C | C |
| 40 | SCL46 | Brghtwter_IslandInn | C | NC | 0.041 | 0.90 | 0.011 | 0.040 | 25.4 | 61.8 | 0.030 | 0.012 | 0.88 | 14.7 | 200 | 78 | 5.6 | 11.9 | 8.13 | 28.9 | 42 | 35 | 29 | 35 | 141 | | | | | |
| 41 | SCL55 | ERockWestEndCoquina | B | Better | 0.067 | 1.22 | 0.003 | 0.021 | 15.7 | 57.2 | 0.056 | 0.011 | 1.21 | 13.1 | 197 | 67 | 4.7 | 2.8 | 7.80 | 30.1 | 24 | 41 | 38 | 41 | 144 | C | D | C | D | C |
| 42 | SCL02 | BeachRdVillasPnd | C | NC | 0.047 | 1.14 | 0.009 | 0.039 | 17.6 | 61.15 | 0.031 | 0.016 | 1.12 | 9.5 | 211 | 73 | 5.2 | 8.9 | 8.1 | 29.4 | 40 | 36 | 36 | 36 | 148 | D | D | B | C | B |

Figure 2. Boxplot of mean salinity values for lakes sampled for the Sanibel Communities for Clean Water project during the period 2016 through 2025. In September 2022, Hurricane Ian immediately changed freshwater systems to marine systems and storm surges from TS Debbie, and Hurricanes Helene and Milton in 2024 increased salinity again. Mean values are decreasing but still significantly greater than conditions before September 2022.

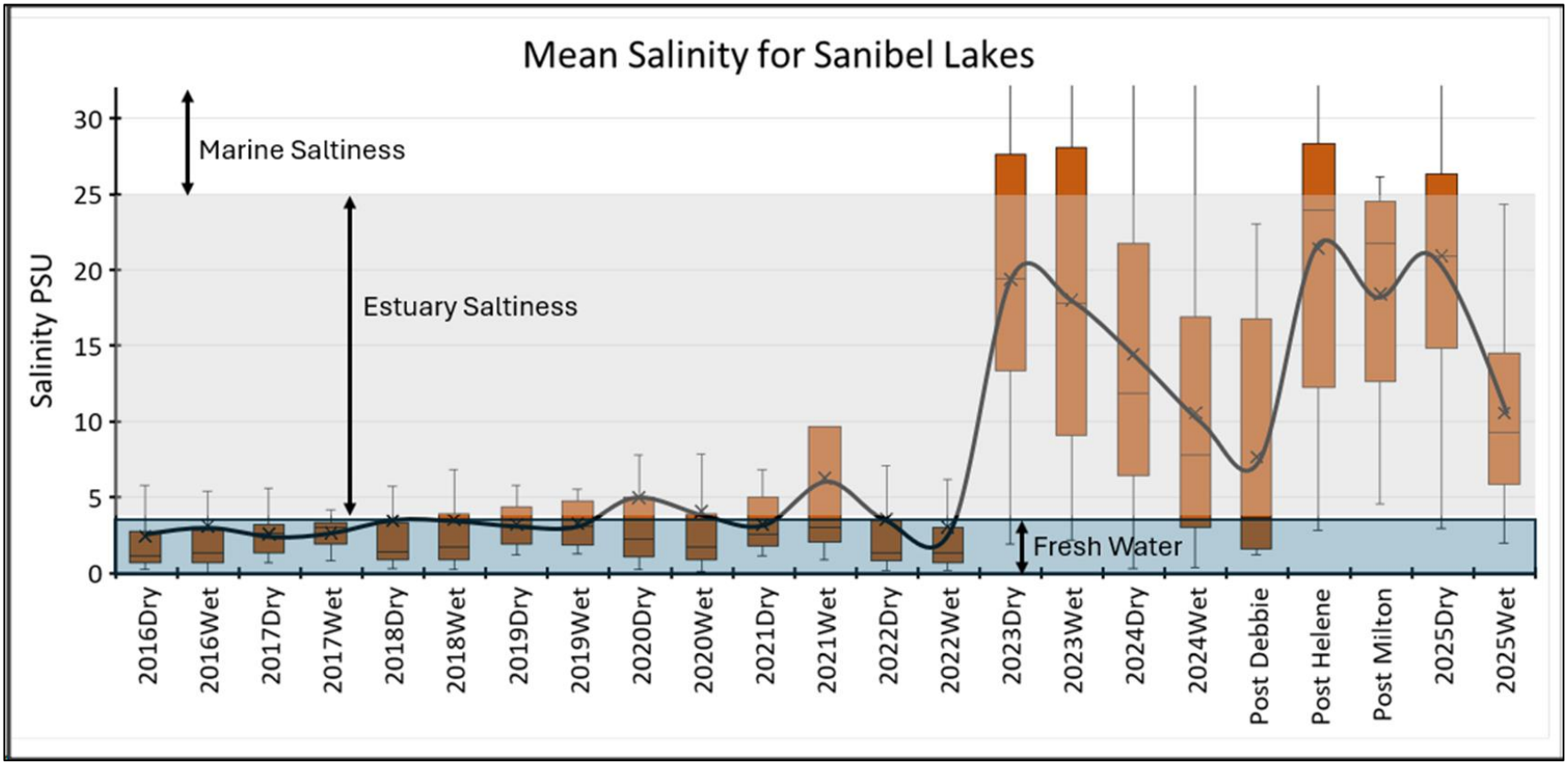


Figure 3. Time series for mean salinity values for waterbodies sampled for the Sanibel Communities for Clean Water project during the period 2016 through August 2025 showing significant downward trend since April 2023.

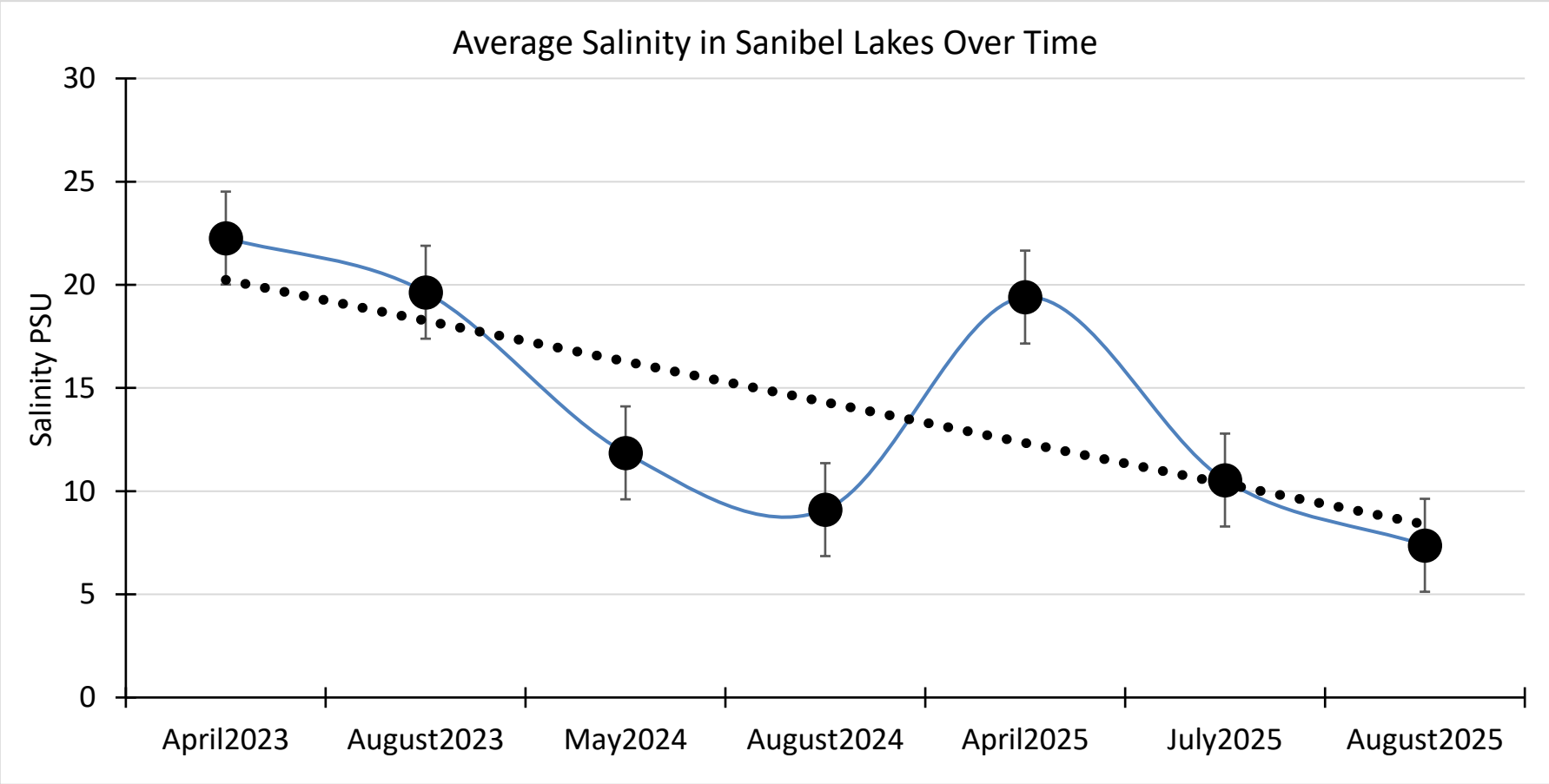


Figure 4. Salinity of shallow lakes vs. deep lakes which were monitored for this report. Classification based upon middle depth greater than 8 feet is deep and less than 4 feet is shallow.

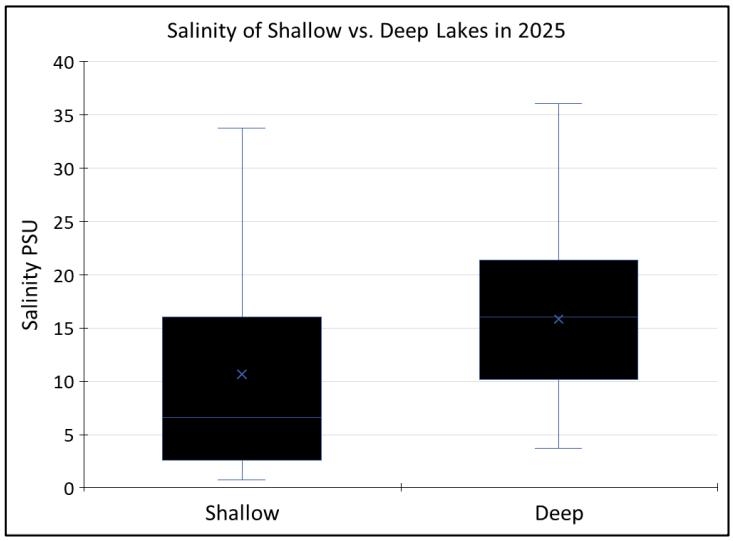


Figure 5. Time series of average pH for monitored lakes.

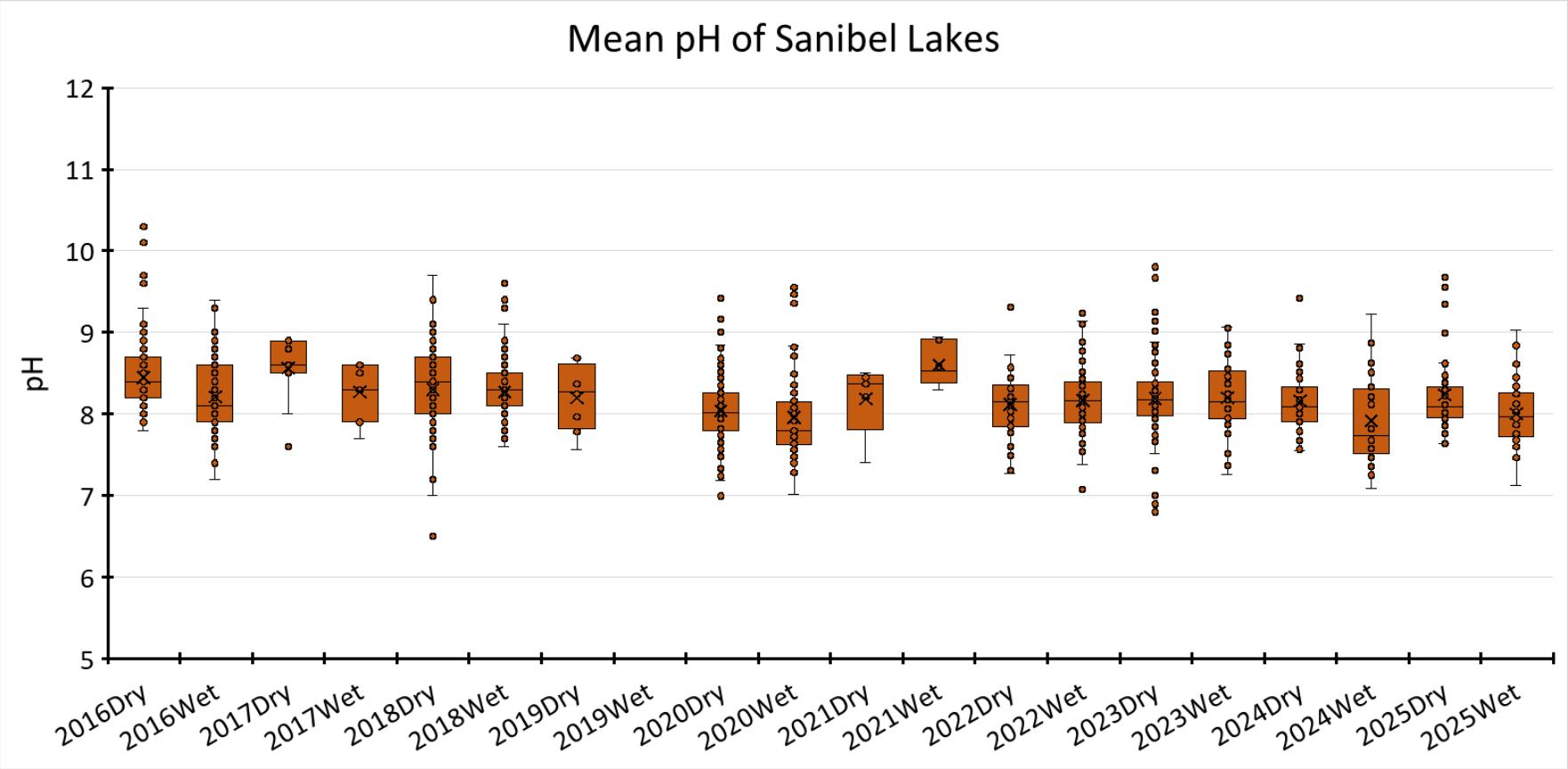


Figure 6. Boxplot of mean chlorophyll *a* concentration per season for the lakes sampled during the Sanibel Communities for Clean Water project.

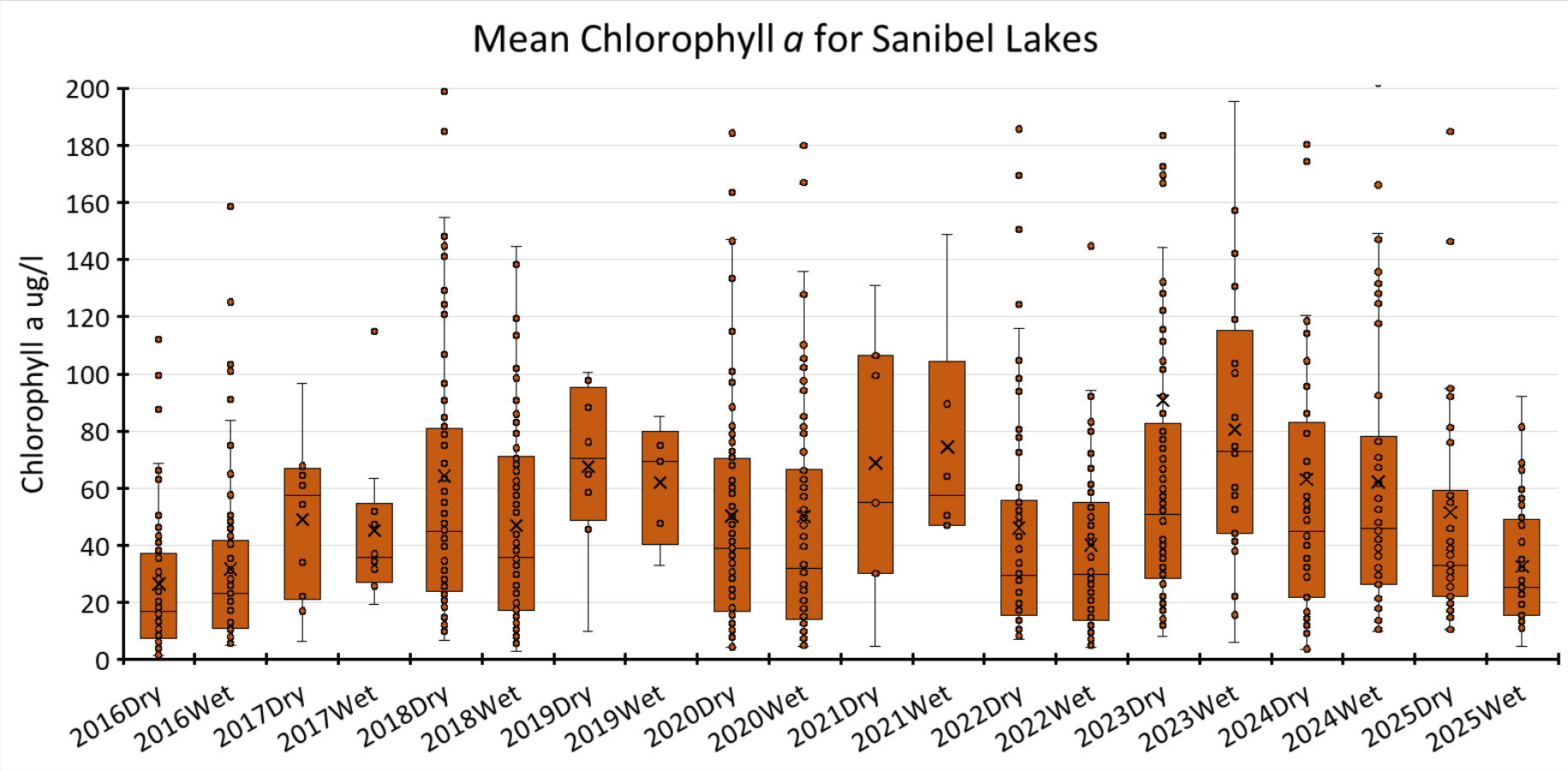


Figure 7. Boxplot of mean total phosphorus concentration per season for the lakes sampled during the Sanibel Communities for Clean Water project. The red line is the Florida state lake water quality criteria maximum for phosphorus.

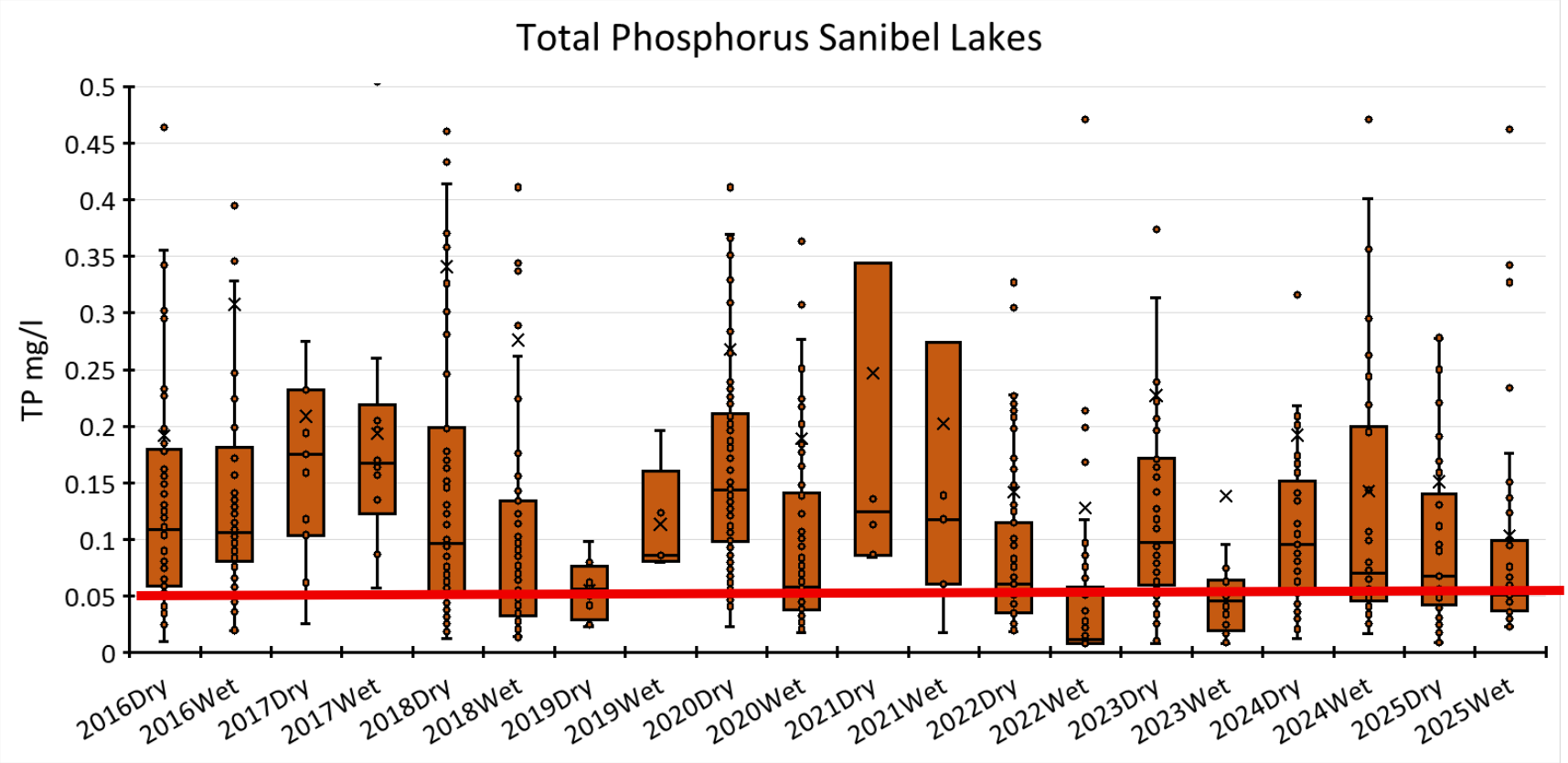


Figure 8. Boxplot of mean total nitrogen concentration per season for the lakes sampled during the Sanibel Communities for Clean Water project. The red line is the Florida state lake water quality criteria maximum for nitrogen.

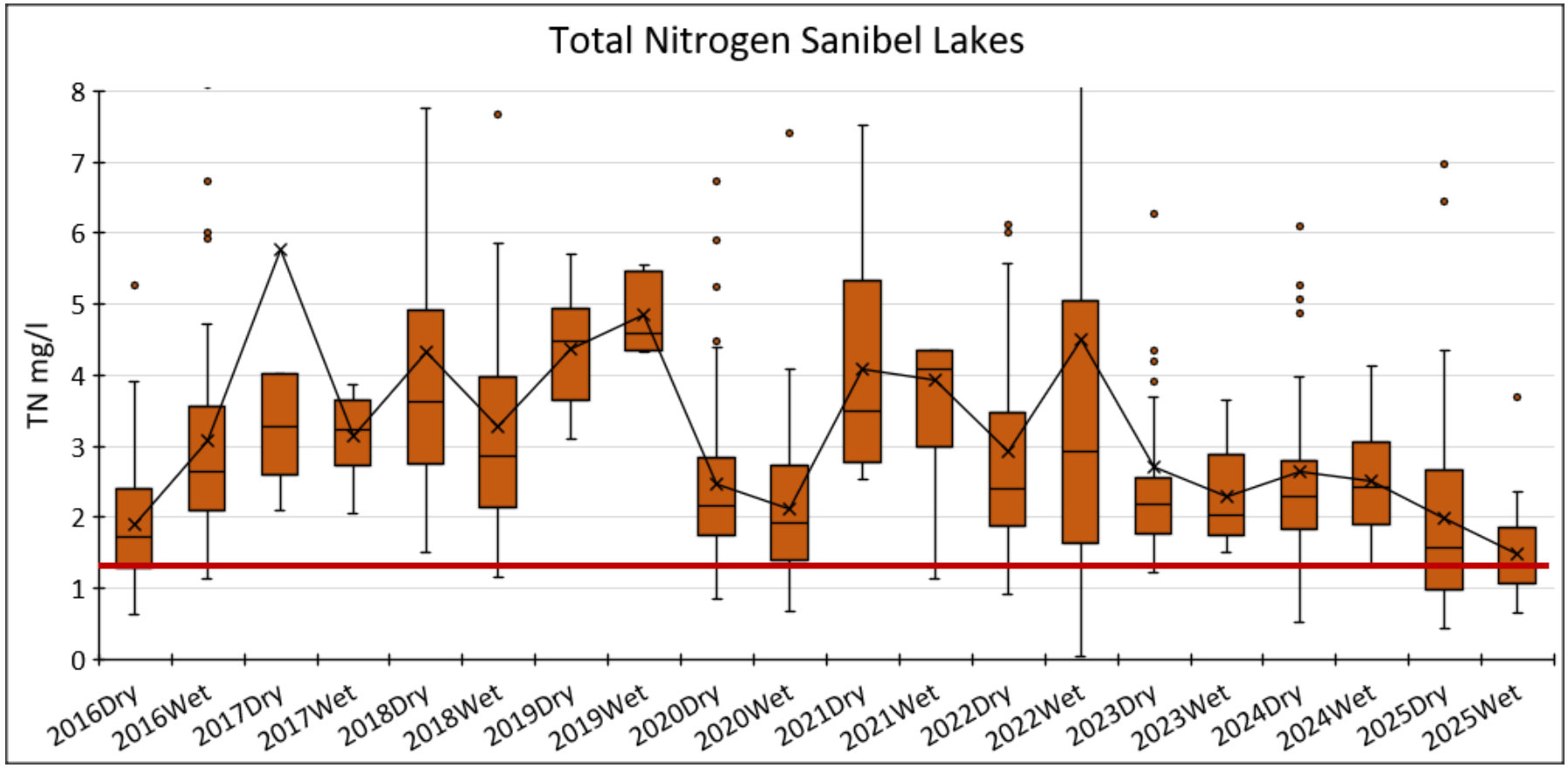


Figure 9. Boxplot of mean inorganic nitrogen concentration per season for the lakes sampled during the Sanibel Communities for Clean Water project.

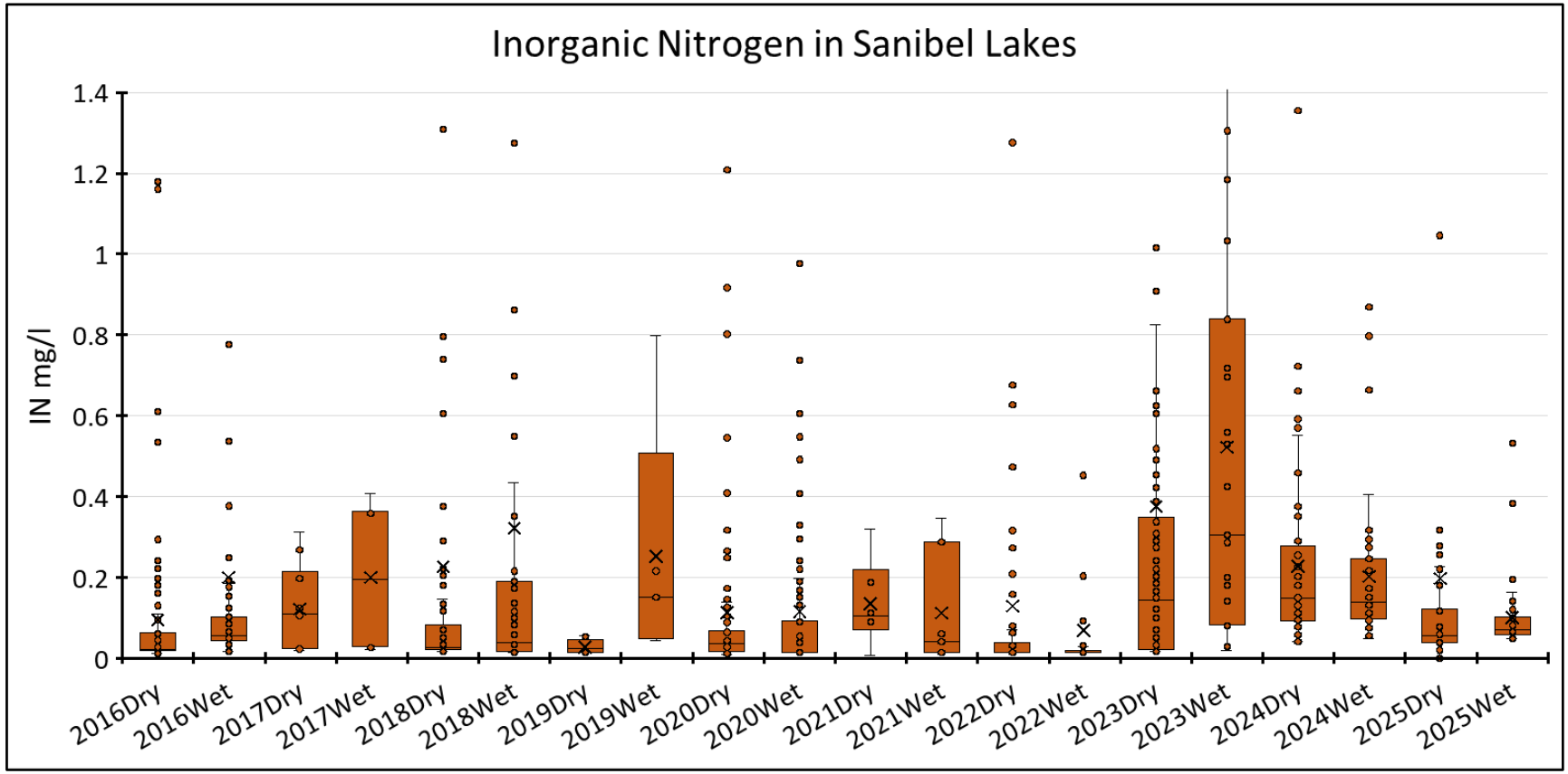


Figure 10. Boxplot of mean trophic state index (TSI) per season for the lakes sampled during the Sanibel Communities for Clean Water project.

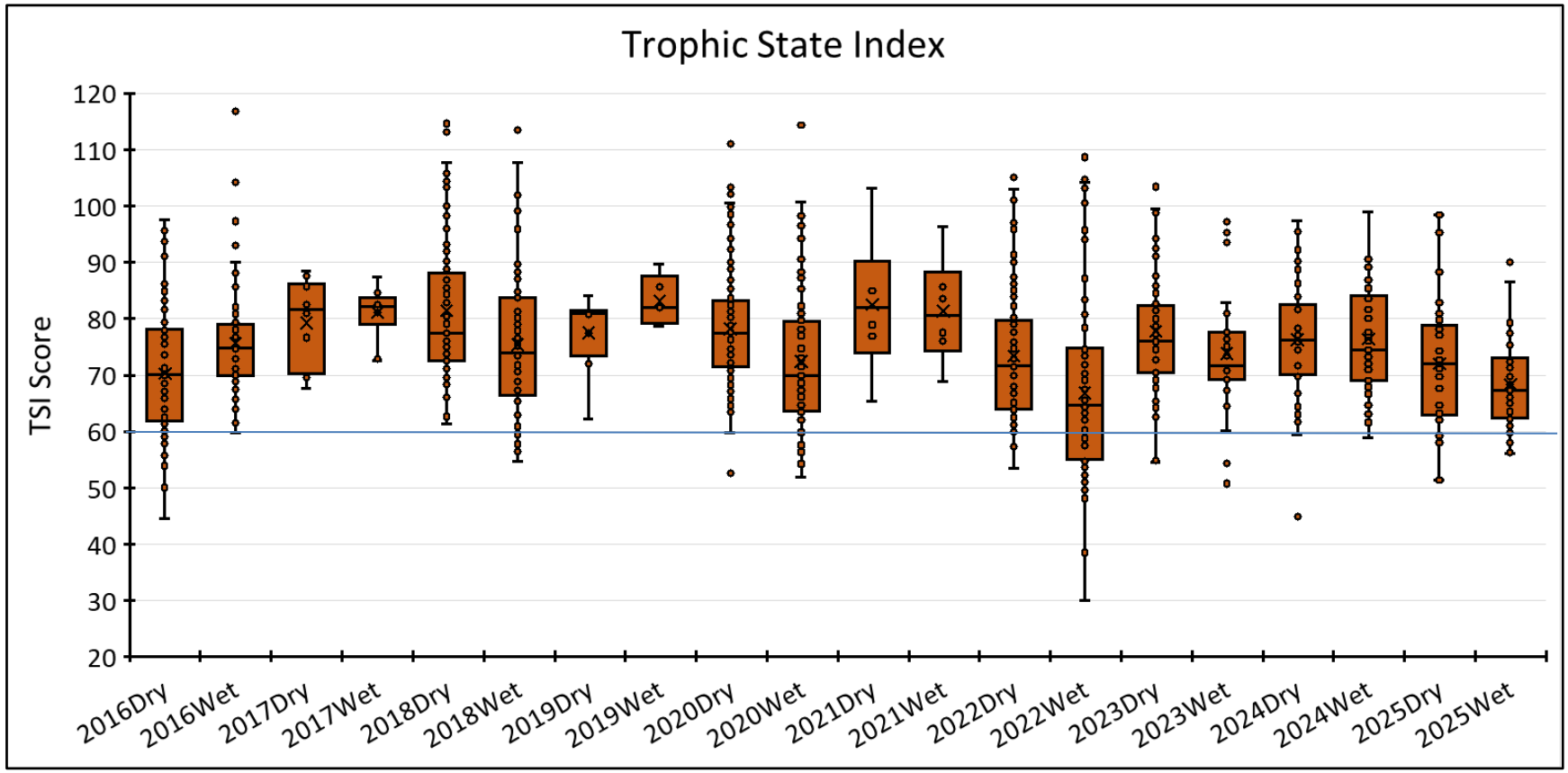


Figure 11. Boxplot of mean fluorometric dissolved organic matter (FDOM) per season for the lakes sampled during the Sanibel Communities for Clean Water project.

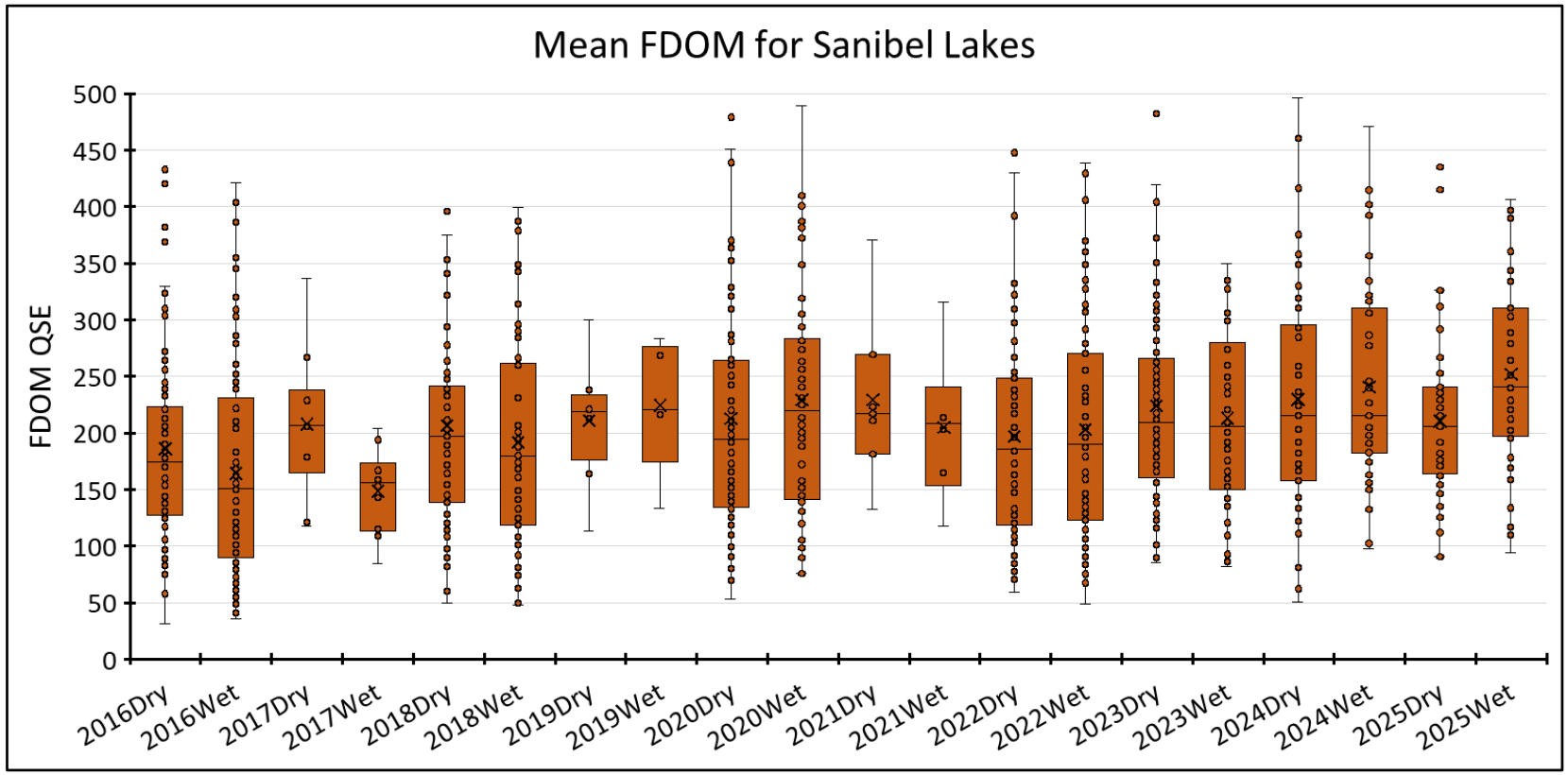


Figure 12. Time series boxplot of Turbidity for the lakes in this study for all periods sampled during the Sanibel Communities for Clean Water project

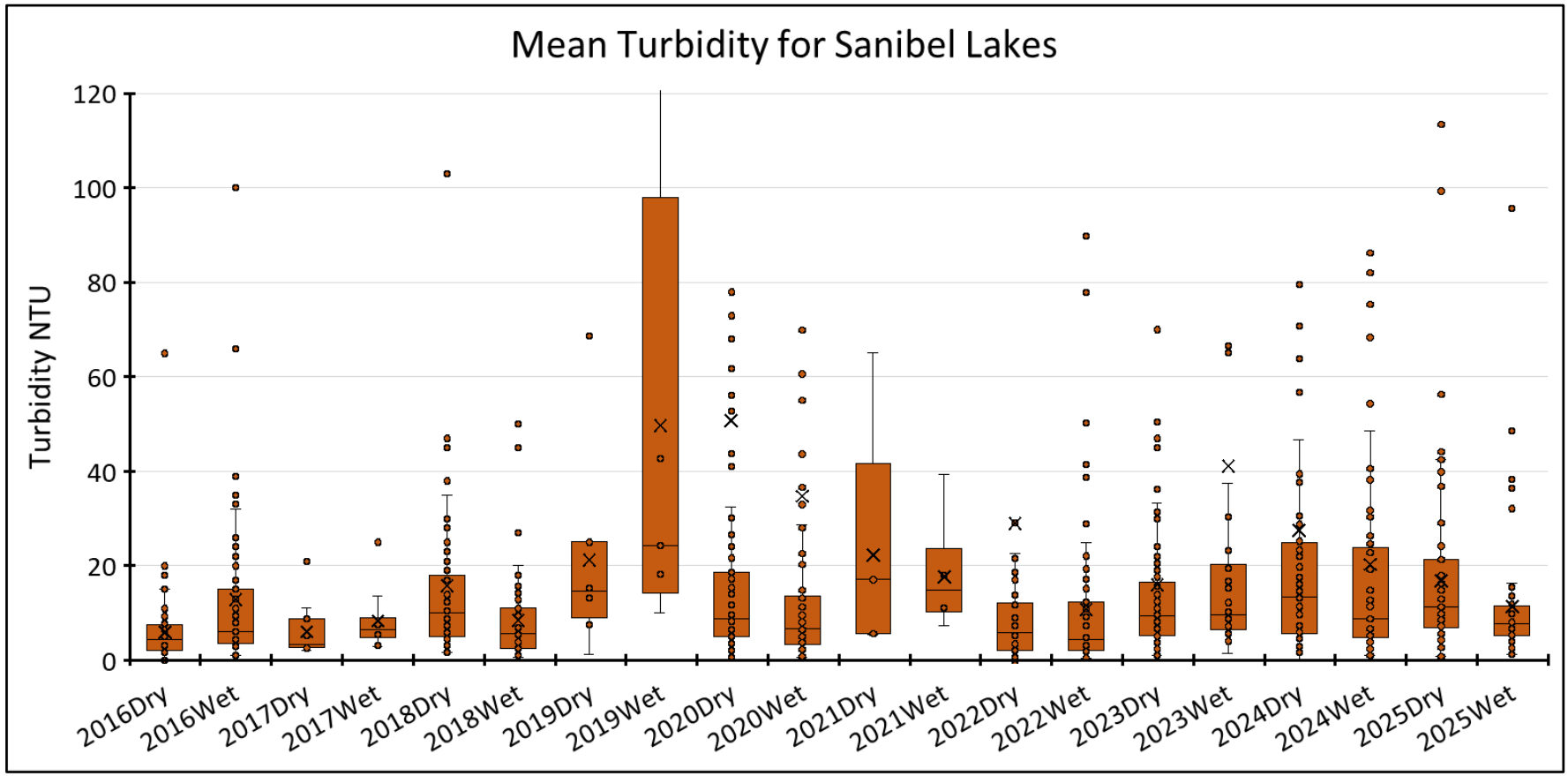


Figure 13. Flow direction in the vicinity of The Dunes Lake 5 for dry season, wet season and immediately after a rainfall event.

Dry Season




Wet Season

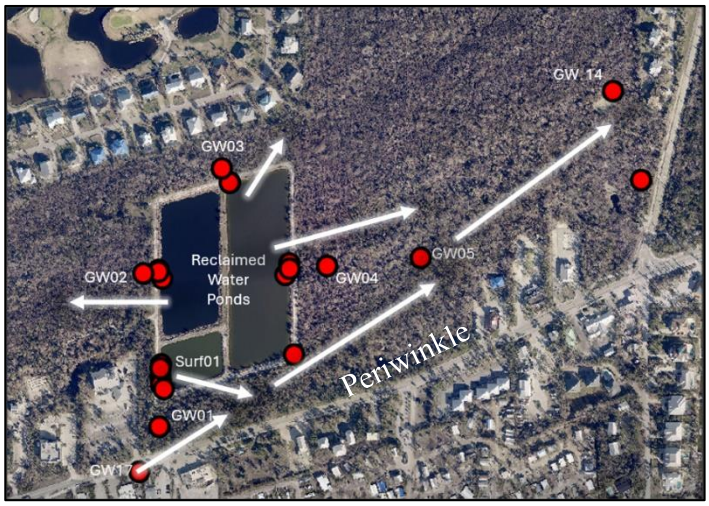



After rainfall event

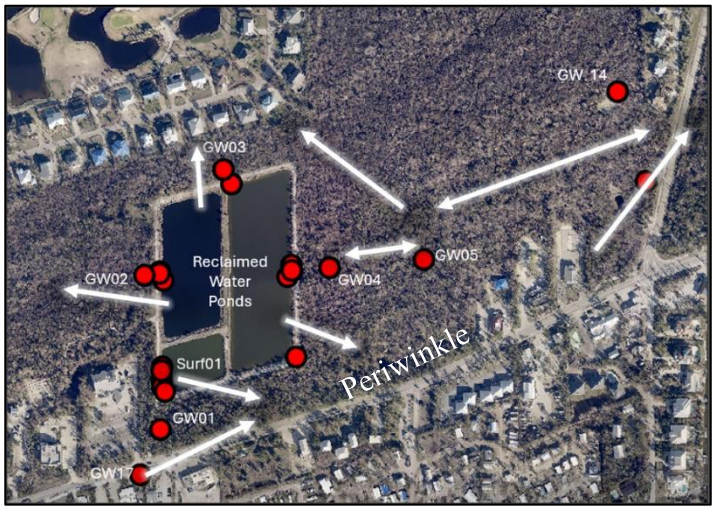


Figure 14. Flow direction in the vicinity of the Pond Apple Park reclaimed water ponds for dry season, wet season and immediately after a rainfall event.

Dry Season




Wet Season




After rainfall event

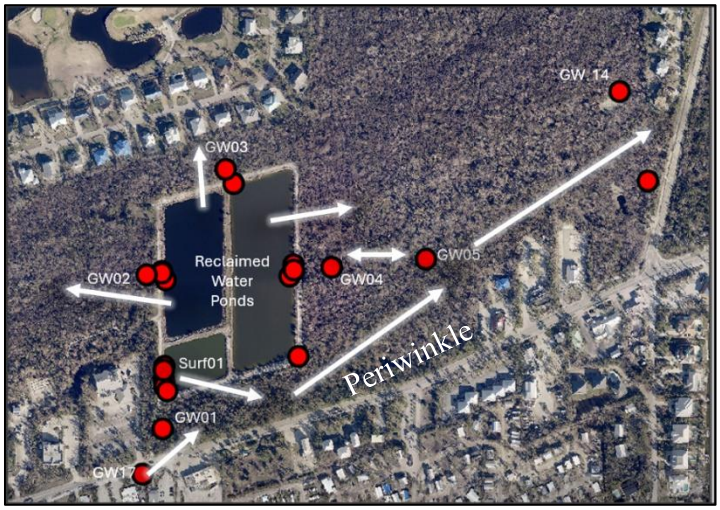
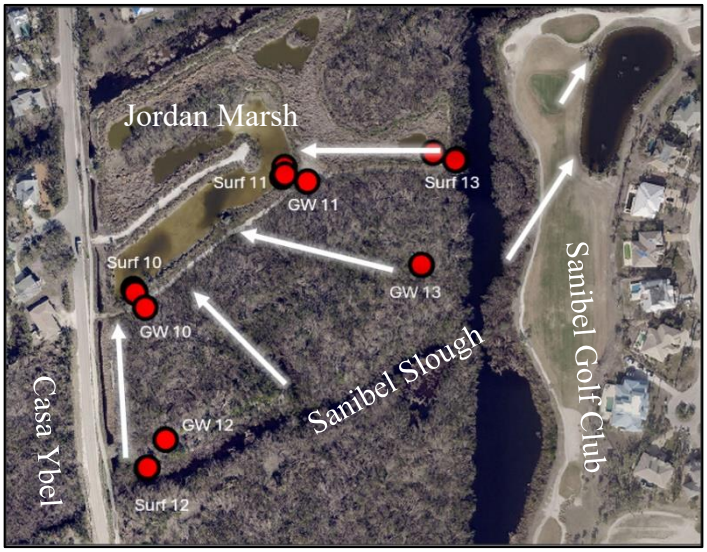
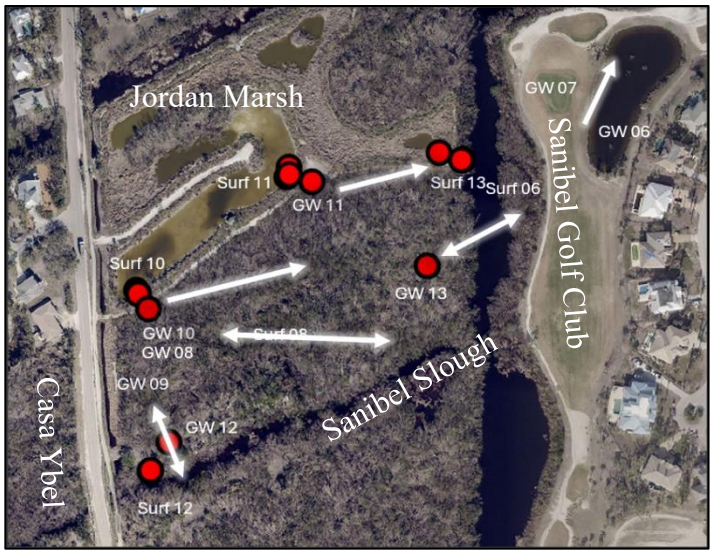


Figure 15. Flow direction in the vicinity of the Jordan Marsh during dry season, wet season and immediately after a rainfall event.

Dry Season




Wet Season




After rainfall event

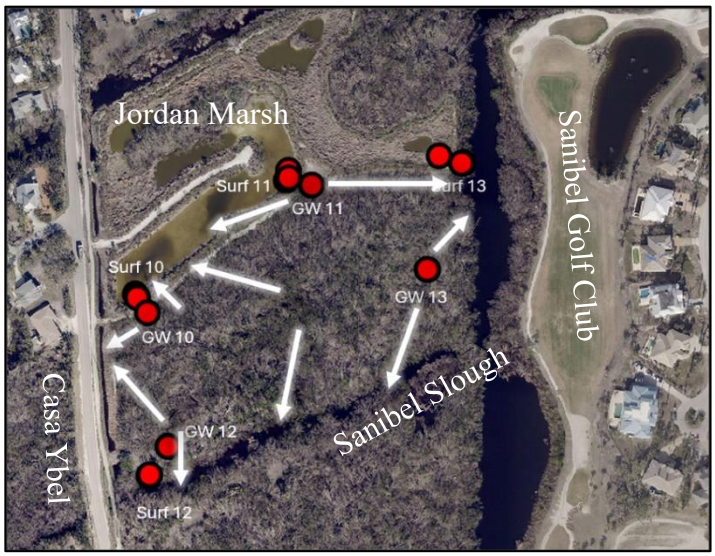
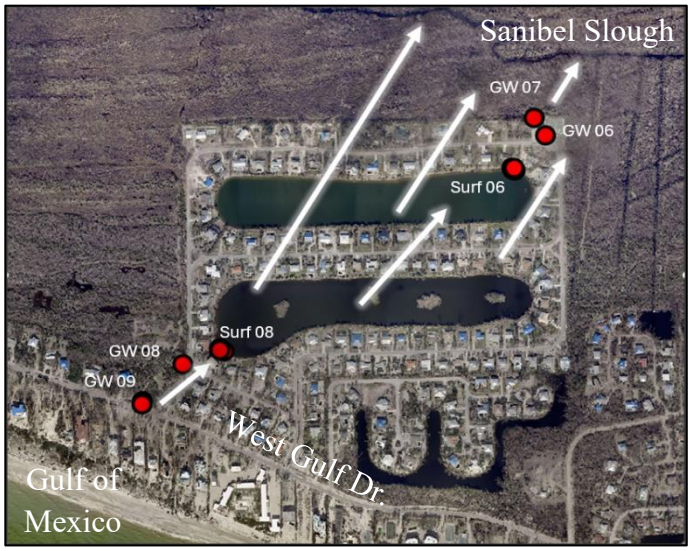
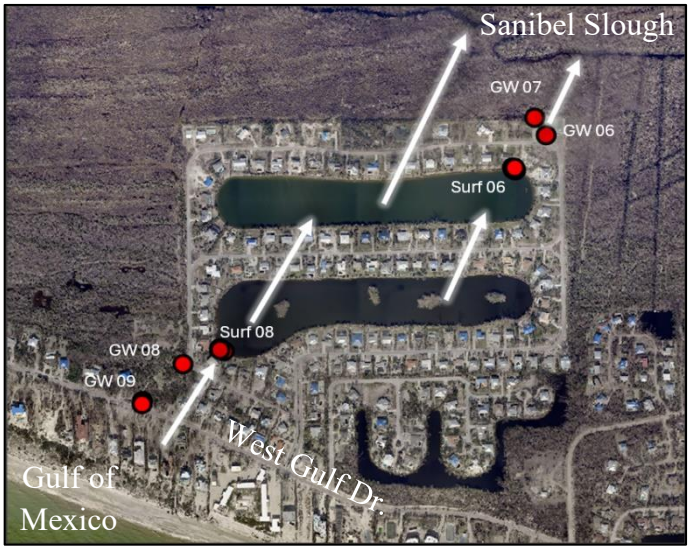


Figure 16. Flow direction in the vicinity of Murex Lakes for dry season, wet season and immediately after a rainfall event.

Dry Season




Wet Season




After rainfall event

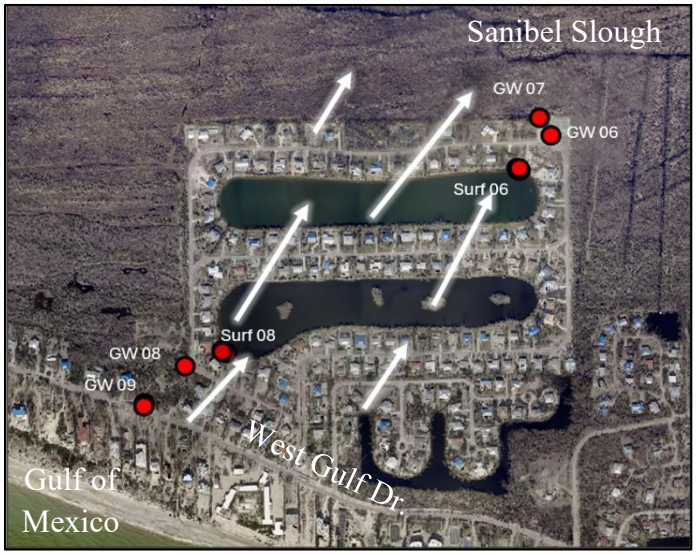


Figure 17. Flow direction in the vicinity of Sea Oats for dry season, wet season and immediately after a rainfall event.

Dry Season




Wet Season

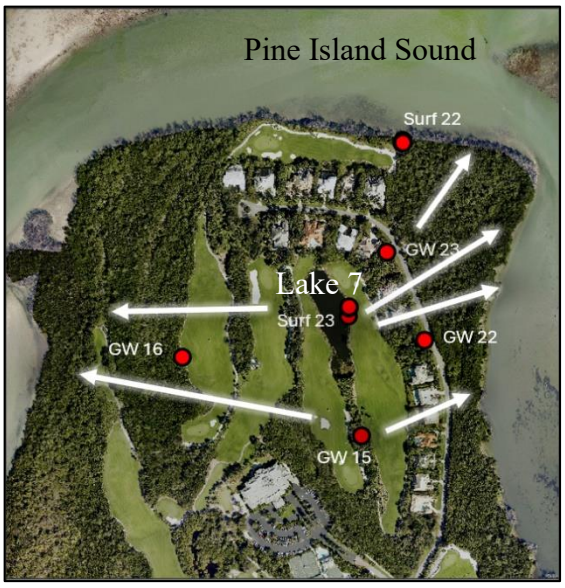



After rainfall event



Figure 18. Flow direction in the vicinity of The Sanctuary Lake 7 for dry season, wet season and immediately after a rainfall event.

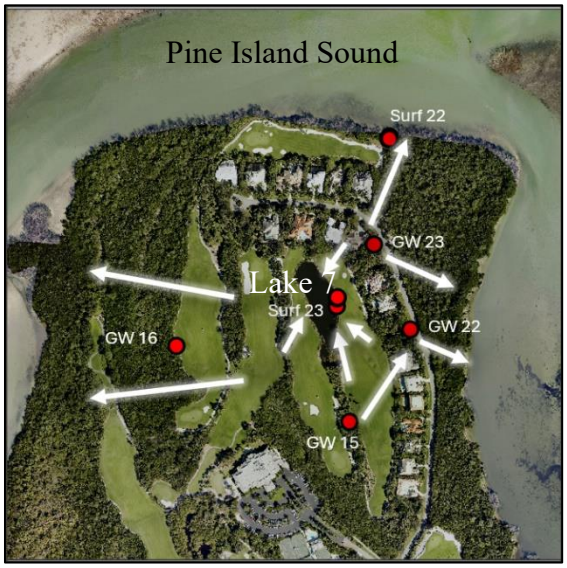
Dry Season




Wet Season




After rainfall event



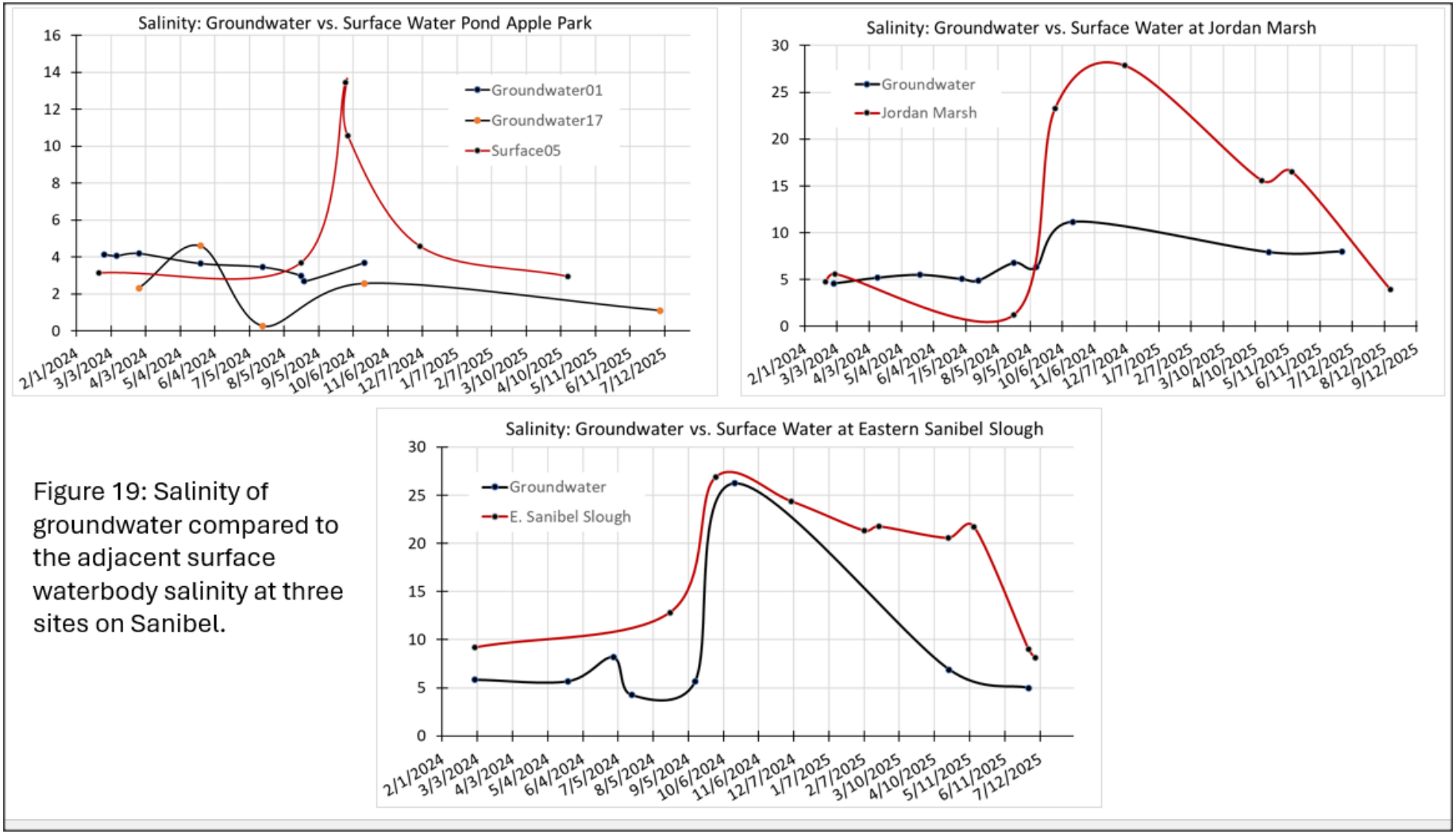
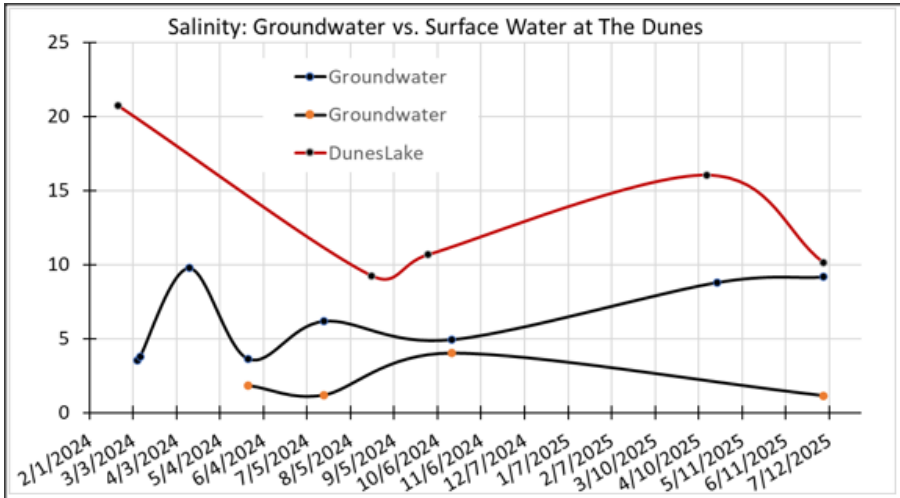
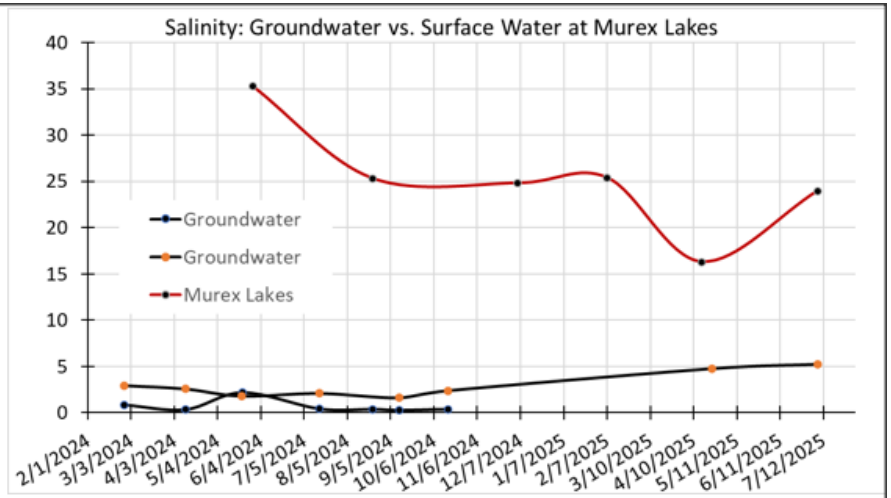



Figure 19: Salinity of groundwater compared to the adjacent surface waterbody salinity at three sites on Sanibel.



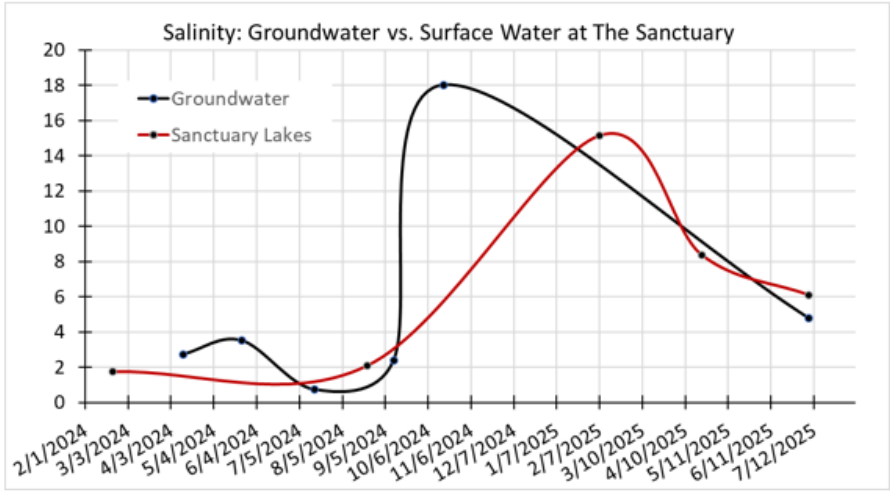
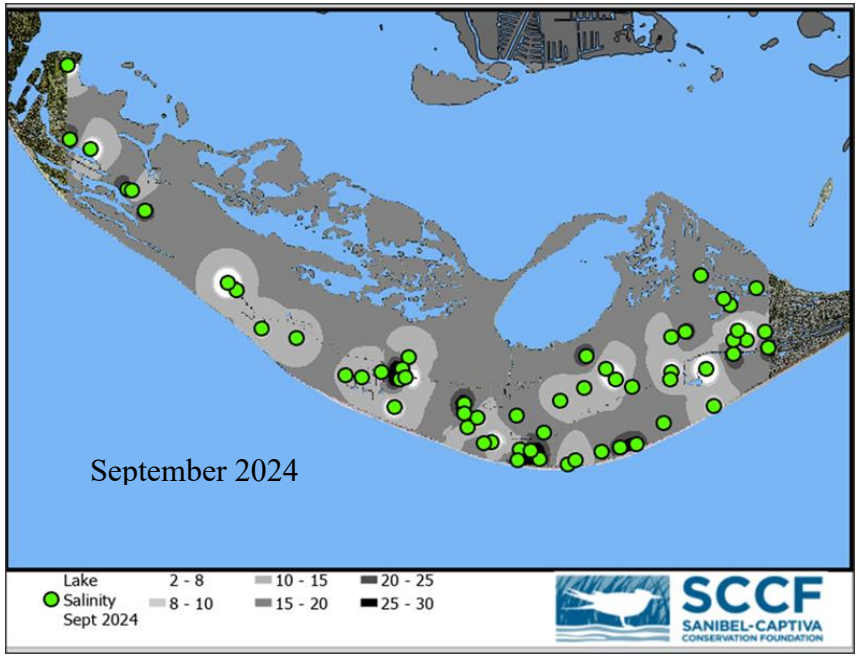
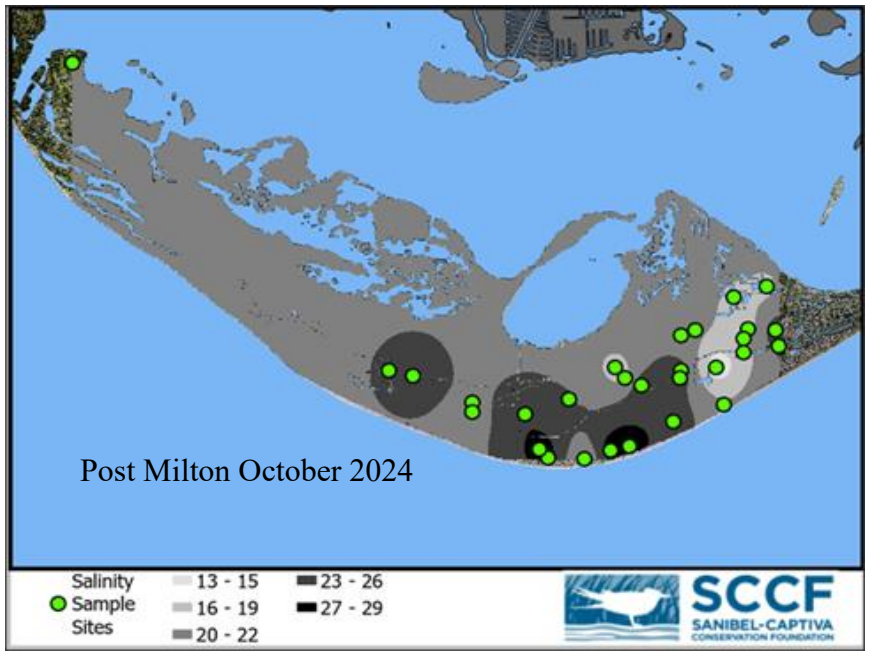




Figure 20: Salinity of groundwater compared to the adjacent surface waterbody salinity at three sites on Sanibel.

Figure 21. GIS interpolation of lake salinity across Sanibel at three different times in the past year.



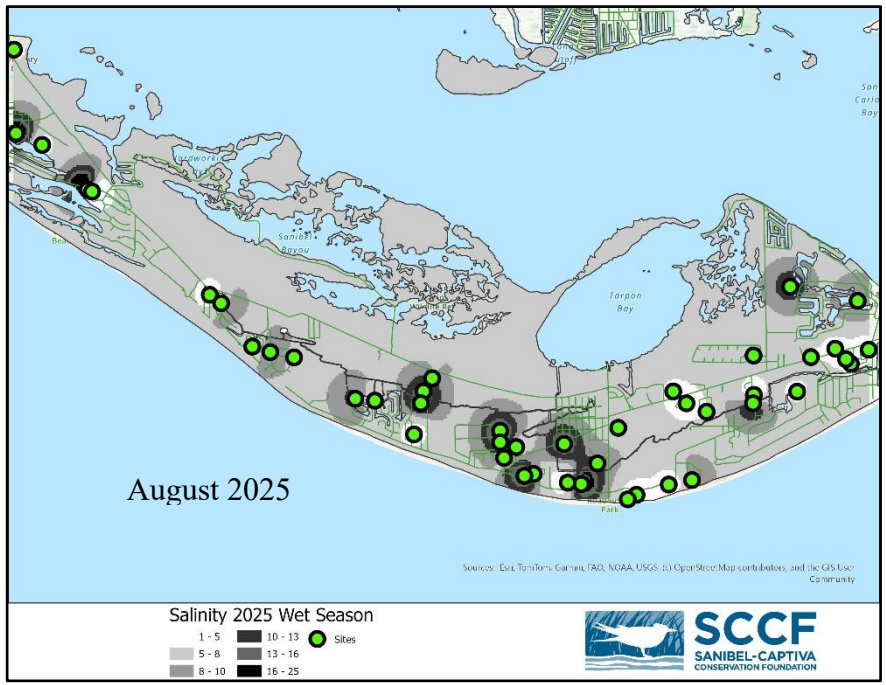



Figure 22. Average salinity of 13 shallow ponds on Sanibel monitored since September 2024. Salinity values of these rain-dependent waterbodies has dropped to near freshwater levels in the wet season of 2025.

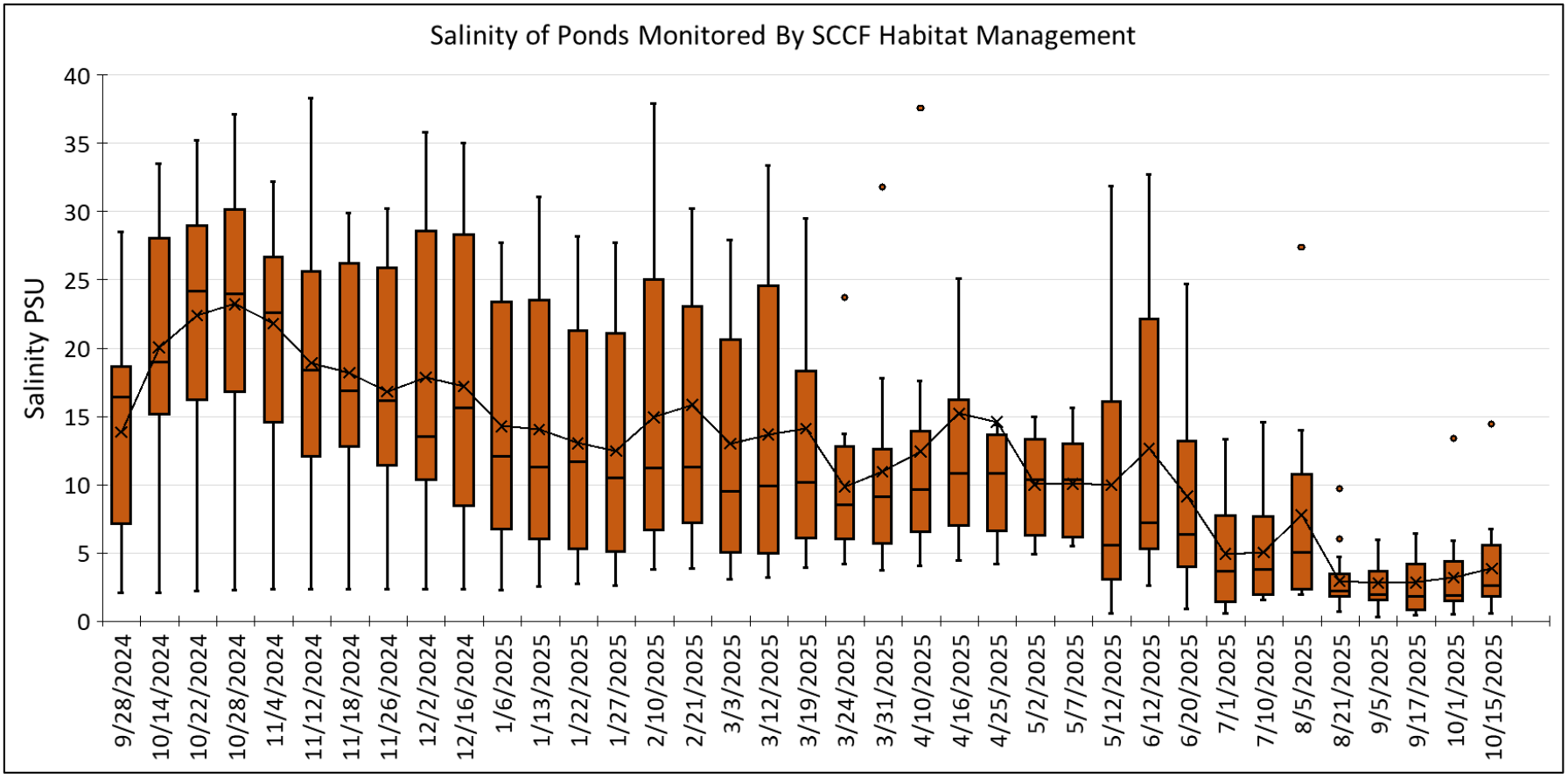
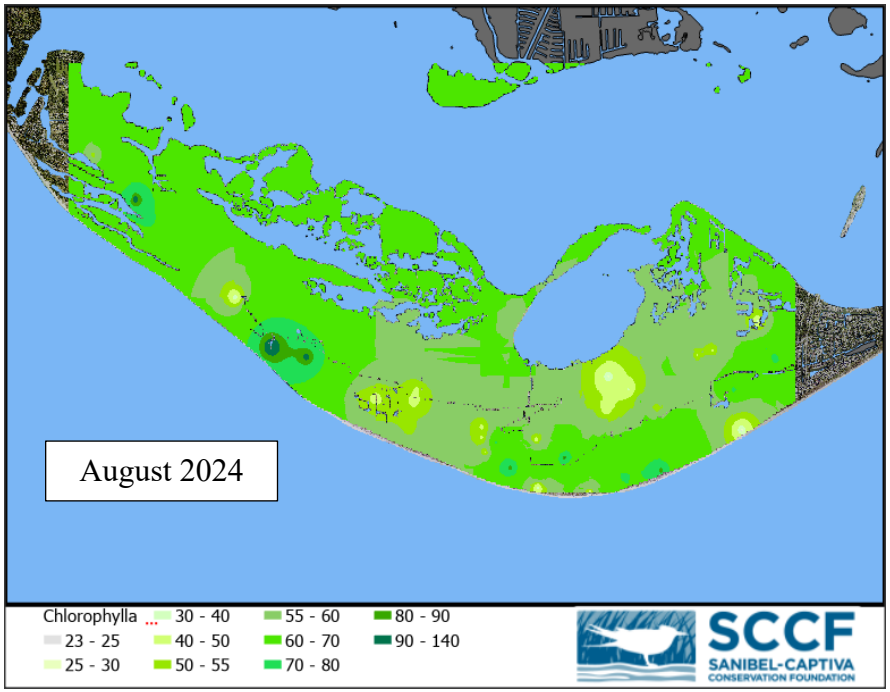
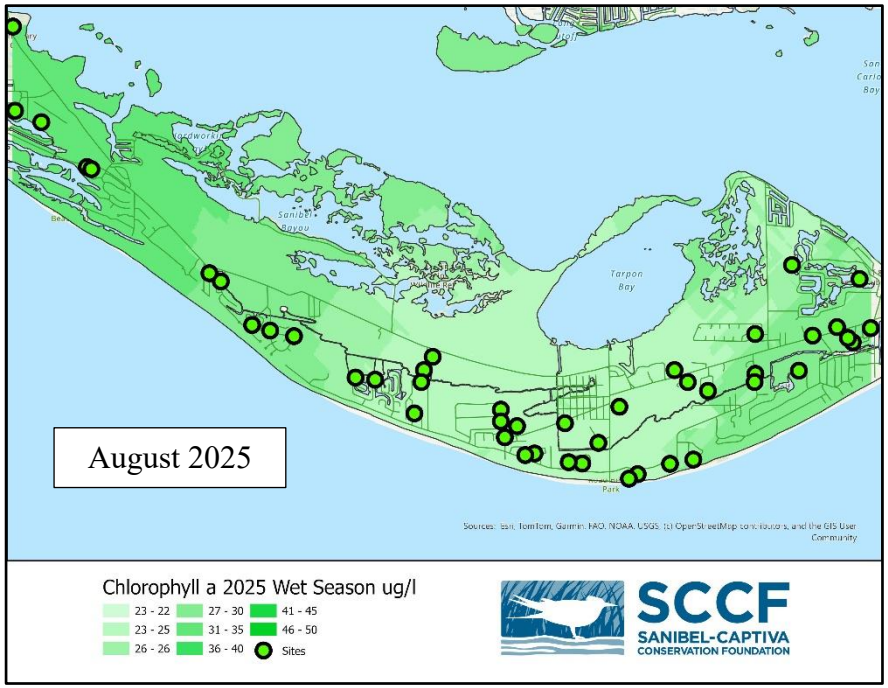


Figure 23. GIS interpolation of chlorophyll *a* across lakes and ponds on Sanibel Island in August 2024 and August 2025. Chlorophyll a values were lower in general in the wet season of 2025 compared to 2024.



# City of Sanibel Clean Canals Program

# Year Five Monitoring Report

September 2025

Submitted by:

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### *Description of the Project*

Prior to the incorporation of the City of Sanibel, canals were dug to provide water access and fill for residential developments. These man-made canals on Sanibel Island often experience dense algae blooms, low oxygen concentrations and fish kills. The low flow and minimal flushing in canals increases water residence times and can promote the formation of phytoplankton blooms. Recent algae blooms in southwest Florida are a health concern as well as an aesthetic problem for residential areas located on canals. Factors such as rainfall, tides, stormwater and irrigation runoff, Sanibel Slough discharges and freshwater releases from the Caloosahatchee River system can be factors producing poor water quality within these canals. Groundwater quality and flow may also affect the conditions found in canals. A more thorough knowledge of the spatial and temporal variability in canal water quality can benefit management decisions aimed at improving water quality.

The Sanibel Communities for Clean Water initiative was created to provide water quality data and recommendations to homeowners surrounding ponds and lakes on the island's interior. That program has now been extended to include homeowners located on canals. This report summarizes the results of wet and dry season sampling at 11 sites (Figure 1a and 1b) within Sanibel's canal systems for the 2025 calendar year with reference to previous results analyzed in 2019, 2021 and 2023. This year's effort was scaled back from 36 canal sites due to being combined with the Sanibel community lakes monitoring effort. Resources originally planned to be allocated to this project are also being used to sample and evaluate a subset of Sanibel lakes. These projects will provide information related to recovery from impacts of hurricanes Ian (2022), Helene (2024) and Milton (2024) on local waterbodies.

The data obtained from sampling Sanibel Canals is entered into the Florida DEP WIN database which is used to evaluate waterbodies for impairment. The two waterbody segments in which the canals reside (2065H1-San Carlos Bay and 2092G-Sanibel Bayous, Figure 2) were listed as impaired due to exceedance of nitrogen criteria for the first time in 2020 after the data collected during this project was evaluated by Florida DEP. The State will now plan to develop a framework for improving water quality in these waterbodies by establishing a Total Maximum Daily Load (TMDL) quantity for nitrogen in each of these segments. The data collected by this project will continue to be shared with DEP to better track any changes in water quality conditions over time.

### *Methods*

Surface water samples were taken at 11 individual sites chosen by the City of Sanibel Department of Natural Resources staff (Table1, Figure 1a and 1b). Samples were collected from each site once during wet season and once during dry season. Dry season samples were collected in April 2025. Wet season sampling was done in August 2025, during the annual fertilizer ban period. Samples were analyzed by Benchmark Laboratories for orthophosphate (OP), total

phosphate (TP), nitrate-nitrite (NOx), ammonia (NH3), and total nitrogen (TN). A calibrated YSI data sonde was deployed at each site to measure DO, turbidity, CDOM, chlorophyll *a*, pH, salinity, and temperature in the field. Results were entered into the SCCF Water Quality Database and will be uploaded into the DEP central water quality data storage system (WIN) to allow evaluation under the impaired waters rule.

Data was plotted and mapped, and inferences were made between sample years, sites, and areas of Sanibel. The 11 sampling sites were ranked from most impaired to least impaired in terms of water quality based upon results of chlorophyll a, total phosphorus, inorganic nitrogen, and turbidity. The values for each parameter were ranked from 1 to 11 with 1 being the most impaired water quality and 11 having the least impaired water quality. After ranking for each parameter, the ranked values were added, and the sum of ranks was then ordered for overall site rank (lowest sum rank = most impaired water quality rank). This exercise allows an overall comparison between sites on Sanibel but doesn't give context to each site's fundamental water quality. To remedy this, a grade was also given to each site based upon mean water quality parameter values for each site. The mean TN, TP, and chlorophyll *a* values at each site were compared to state criteria and percentile distribution of values from throughout the state (Hand FLDEP, 2008) to come up with a score for each of these three parameters based upon values in Table 2. A score of 4 is the least impaired water quality while a score of 0 is the most impaired. At each site, scores for TN, TP and Chla were added up and then divided by 3 to come up with an average overall water quality score. A grade was then assigned to the site based upon the score: 4 = A, 3 = B, 2 = C, 1 = D, 0 = F. The grade reflects the site's overall success in meeting water quality criteria for all three parameters.

The results of all water quality monitoring are provided in an excel workbook containing raw data, and comparison analyses. This spreadsheet can be the source of data for the Communities for Clean Water interactive website.

***Results***

Of the 11 sites sampled in 2025, 10 sites (90%) had mean chlorophyll *a* concentrations above the Florida DEP criteria for Pine Island Sound of 6.5 ug/l, 11 sites (100%) had mean TN concentrations greater than the 0.57 mg/l criteria and 3 (27%) had mean phosphorus concentrations greater than the 0.06 mg/l criteria (Table2, Figures 3,4,5). The ranges and mean values for dissolved oxygen, turbidity, water temperature, salinity and ammonia are shown in Figures 6 through 10 and Table 2.

Dissolved oxygen concentration in a waterbody follows a diurnal cycle with greatest oxygen concentrations usually occurring late during the sunniest part of the day while lowest concentrations occur early in the morning. Our sampling effort provides only a snapshot of one point in this daily cycle at any sampling location. This reality should be considered when considering any evaluation of DO data which occurs at one time during the day. A statistical

comparison of mean DO (mg/l) between sites found significantly lower DO (Kruskal Wallis, $p<0.01$) at site SCC05 which is the furthest site upstream at a dead end in the eastern canal system (Figure 6 and Table2). This would be a poorly flushed area, and lower DO would be expected there. No other significant differences in DO were found. A weak but significant increasing trend in dissolved oxygen was found over all 11 sites from 2019 through this most recent monitoring year (Spearman's, $p = 0.03$, $c = 0.214$).

No significant difference (Spearman's, $p = 0.065$, $c = 0.204$) could be found in turbidity between sites in 2025 (Figure 7, Table 2) and no significant trend in the pooled data from these 11 sites from 2019 through 2025. Similarly, no significant difference between sites in 2025 and no trend could be found in salinity since 2019. Mean salinity within the canals fell between the mean salinity of the Gulf of Mexico and that of the lower Caloosahatchee River at shell point (Figure 9).

Statistical comparison of inorganic nitrogen between sites found no detectable differences, although site 31 off Dinkin's Bayou had a higher mean IN than the other sites (Figure 10). A significant increasing trend was found for IN between 2019 and the 2025 sampling period for the 11 sites pooled together.

Water quality grades for each site are shown in Table 2 and in Figures 11a and 11b. In general water quality grades in 2025 for these 11 sites were about the same as their grades for 2023. As in 2023, the least impaired water quality sites were located nearest to the mouth of a canal system where they received the best tidal flushing. Similarly, the most impaired water quality sites were located farthest from the mouth of canal systems in the more interior sections of canals (Figure 11).

***Conclusions***

Based upon comparison to Florida DEP water quality criteria, most of Sanibel's canals have serious water quality issues and may not support a natural, diverse flora and fauna. Total nitrogen concentrations exceed water quality criteria at all sites monitored in 2025, 2023 and 2021 and all but 1 site in 2019. The main source of nitrogen from Sanibel has been previously determined to be natural land; however, fertilizer and reclaimed water used for landscape irrigation are also major contributors (Thompson et al, 2018). The stormwater runoff loading is a combination of local sources and regional freshwater discharges from the Caloosahatchee River watershed (USGS 2015).

The Florida DEP has determined that the waters of Pine Island Sound, San Carlos Bay and the Bayous of eastern Sanibel are all "impaired" due to exceedance of nitrogen criteria. These impaired waterbodies include all the canals which were sampled during this study. The data from the 2019, 2021 and 2023 sampling events were entered into the Florida WIN database and used during impaired waters evaluations by DEP. The data from the 2025 sampling events

will also be entered into the WIN database by SCCF marine laboratory for use in evaluating these waterbodies in the future.

The poorest water quality was found in sections of canals farthest away from the mouth of the canal systems. Poor flushing (water exchange) and circulation is known to be associated with higher chlorophyll *a* and nutrient concentrations, and these results support that association. Water quality "grades" were poor overall but water quality at the monitored sites did not seem to change drastically after hurricane Ian, Helene or Milton.

In general, Sanibel's canals are typical of estuarine canals throughout Florida. Water quality conditions are greatly influenced by the amount of flushing a canal receives and land use in the watershed, On Sanibel, the proximity to golf course runoff and groundwater flow have been shown to have significant impacts on water quality as well as regional freshwater flows from the Caloosahatchee watersheds.

Attachment: Excel spreadsheet: Sanibel_Clean_Canals_2025

Table 1. Sites monitored for this study in 2025.

| Station | Description | Approximate Address | Region | Latitude | Longitude |
|---|---|---|---|---|---|
| SCC02 | East End Sanibel Canal | Midway down sextant drive at boatramp entrance | East | 26.451618 | -82.033434 |
| SCC05 | East End Canal under bike path bridge | Beside 425 East Gulf Drive at curve - bike path brdige | East | 26.448592 | -82.025105 |
| SCC09 | East End Canal south side of Periwinkle | Behind tennis court Mackenzie Island | East | 26.446391 | -82.028791 |
| SCC10 | East End Canal south side of Periwinkle | Behind 1057 Yachtsman Dr. | East | 26.447613 | -82.031009 |
| SCC11 | East End Canal south side of Periwinkle | 740 Windlass off Anchor Dr. | East | 26.447952 | -82.033444 |
| SCC20 | East End Canal south side of Periwinkle | Behind 812 Sand Dollar Dr off Lundgren | East | 26.442111 | -82.036950 |
| SCC21 | East End Canal south side of Periwinkle | Behind 890 Beach Rd. | East | 26.443023 | -82.039200 |
| SCC22 | Northern Canal off Bay Drive | Behind 1246 Bay Drive | D_North | 26.460229 | -82.046119 |
| SCC27 | Northern Canal off Dixie Beach Rd | Behind 1689 Sabal Palm off Royal Poinciana | D_North | 26.462456 | -82.055476 |
| SCC31 | Canal off Dinkins Bayou west end | Behind house 5830 San Cap Rd | Bayous | 26.474490 | -82.168722 |
| SCC35 | Canal off Dinkins Bayou west end | Open Lot on East Side (2469) Coconut Drive | Bayous | 26.480705 | -82.178596 |

Table 2. Summary of water quality conditions in 11 canal sites tested during this project year. Sites are listed from worst (rank1) to best water quality (rank11). A water quality grade is also shown to better characterize the overall water quality of each site regardless of its rank among Sanibel canals. Poor water quality dominates the project area.

| Site | 2025 Grade | 2023 Grade | 2021 Grade | 2019 Grade | TP Grade | Chla Grade | TN Grade | Overall Grade Score | Mean TP mg/l | Mean Chla ug/l | Mean TN mg/l | Mean Turb NTU | Mean IN mg/l | IN Rank | TP Rank | Chla Rank | Turb Rank | Sum Rank | 2025 Rank | 2023 Rank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCC35 | D- | D- | D+ | D- | 1 | 0 | 1 | 0.67 | 0.077 | 17.4 | 1.130 | 10.8 | 0.147 | 2 | 2 | 3 | 6 | 13 | 1 | 1 |
| SCC31 | D+ | D- | D+ | D- | 4 | 0 | 0 | 1.33 | 0.036 | 14.0 | 1.442 | 23.3 | 0.285 | 1 | 6 | 5 | 2 | 14 | 2 | 3 |
| SCC10 | D+ | C- | C- | B | 4 | 0 | 0 | 1.33 | 0.084 | 20.2 | 1.782 | 6.2 | 0.124 | 3 | 1 | 1 | 9 | 14 | 2 | 9 |
| SCC21 | D | D- | F+ | C- | 3 | 0 | 0 | 1.00 | 0.051 | 17.8 | 1.383 | 18.8 | 0.082 | 8 | 4 | 2 | 3 | 17 | 4 | 2 |
| SCC11 | D | D+ | C- | C- | 2 | 0 | 1 | 1.00 | 0.033 | 17.3 | 0.922 | 13.1 | 0.117 | 4 | 7 | 4 | 5 | 20 | 5 | 6 |
| SCC05 | D- | D- | D+ | D- | 1 | 0 | 1 | 0.67 | 0.065 | 13.0 | 0.855 | 15.0 | 0.072 | 10 | 3 | 6 | 4 | 23 | 6 | 3 |
| SCC09 | D | D+ | D+ | C- | 2 | 0 | 1 | 1.00 | 0.038 | 12.5 | 0.658 | 5.2 | 0.088 | 7 | 5 | 7 | 10 | 29 | 7 | 5 |
| SCC02 | C- | B | B- | B | 3 | 1 | 1 | 1.67 | 0.025 | 9.7 | 1.260 | 8.1 | 0.102 | 6 | 9 | 9 | 8 | 32 | 8 | 11 |
| SCC22 | C+ | C+ | C+ | C+ | 4 | 3 | 0 | 2.33 | 0.019 | 4.4 | 1.414 | 50.0 | 0.066 | 11 | 10 | 11 | 1 | 33 | 9 | 10 |
| SCC27 | C+ | C- | C+ | B- | 4 | 2 | 1 | 2.33 | 0.015 | 7.0 | 0.739 | 10.5 | 0.107 | 5 | 11 | 10 | 7 | 33 | 9 | 8 |
| SCC20 | D+ | D+ | D- | C- | 3 | 1 | 0 | 1.33 | 0.030 | 10.6 | 1.281 | 3.9 | 0.081 | 9 | 8 | 8 | 11 | 36 | 11 | 6 |

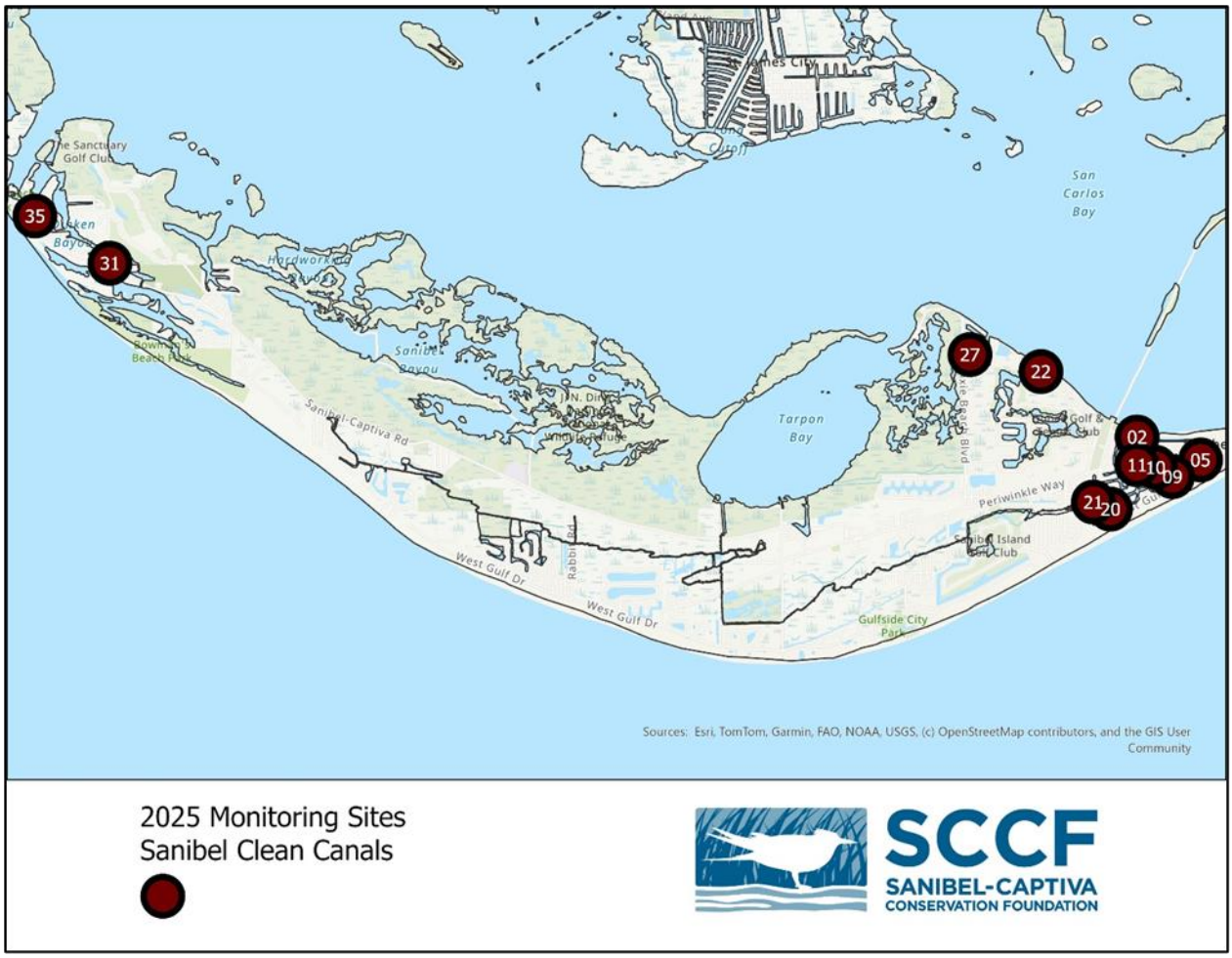



Figure 1a. Location of the 11 sampling sites for collection of water quality data from Sanibel's canals in 2025.

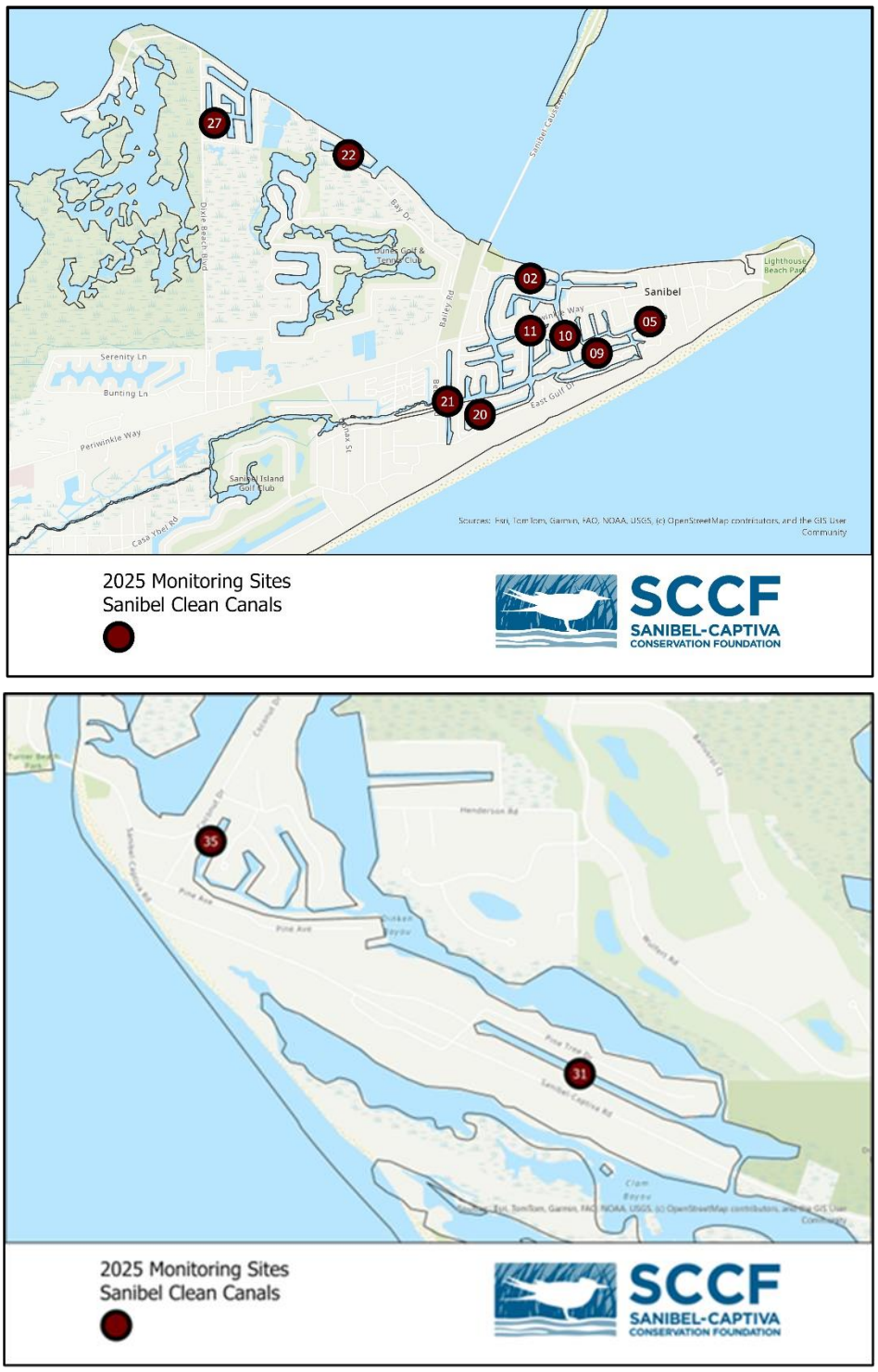



Figure 1b. Location of sampling sites for collection of water quality data from Sanibel's canals separated into eastern (top) and western sites.

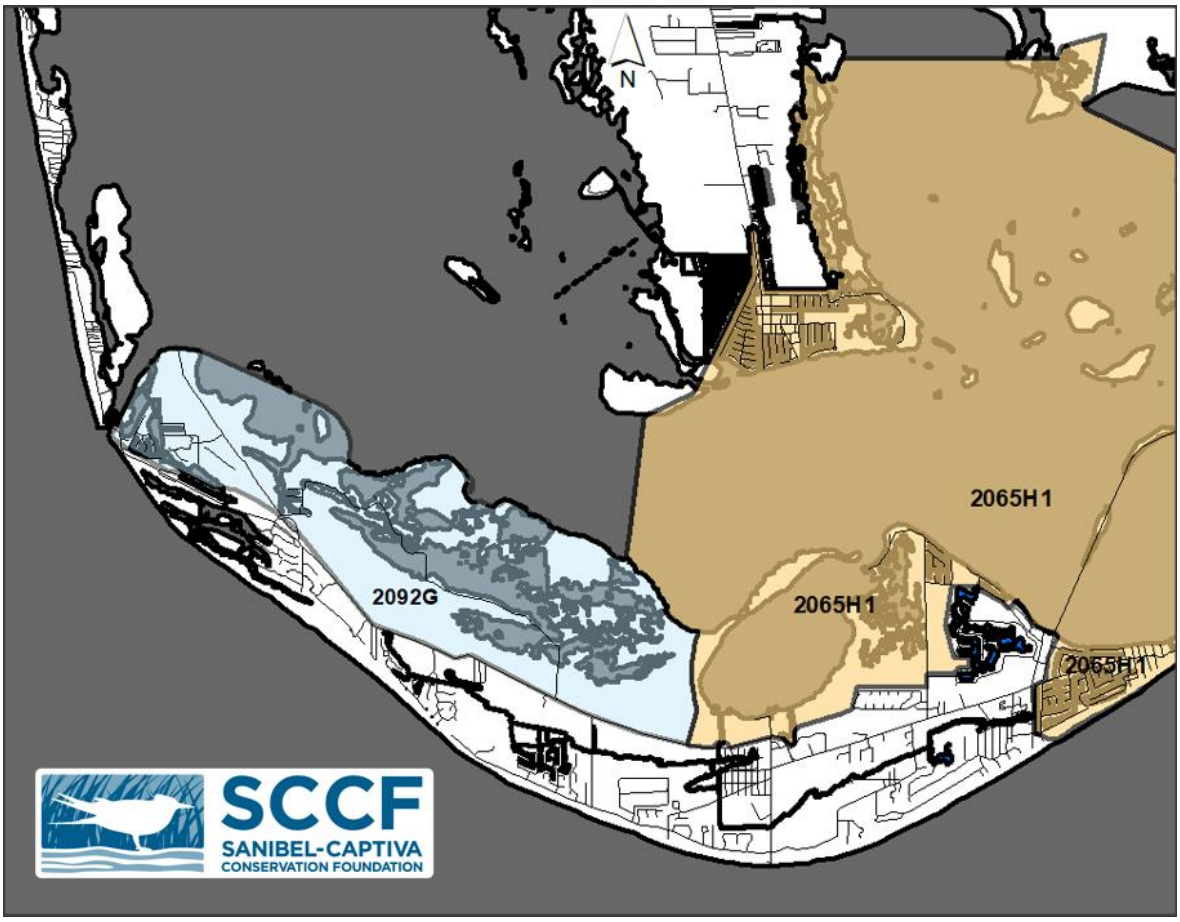



Figure 2. The Florida DEP waterbody identification numbers (WBIDs) for the canals on Sanibel. Sanibel canals fall within two WBIDs as shown on map.

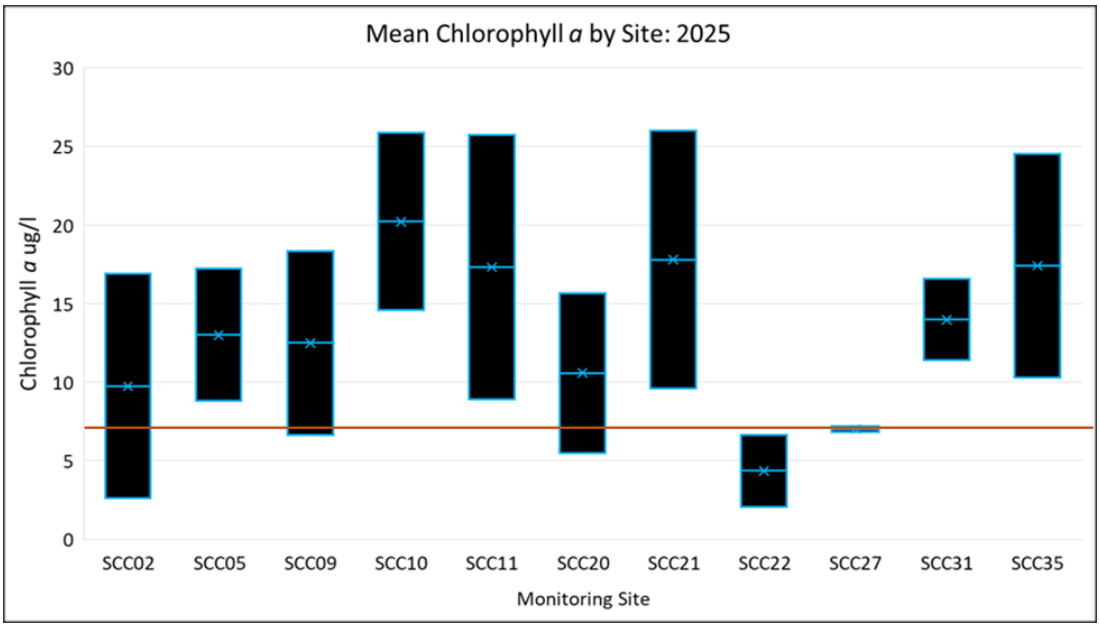



Figure 3. Boxplot showing range and mean (midline) values of chlorophyll *a* ug/l concentrations for the 11 sites sampled during this project. The red line indicates the value of Pine Island Sound water quality criteria for this parameter.

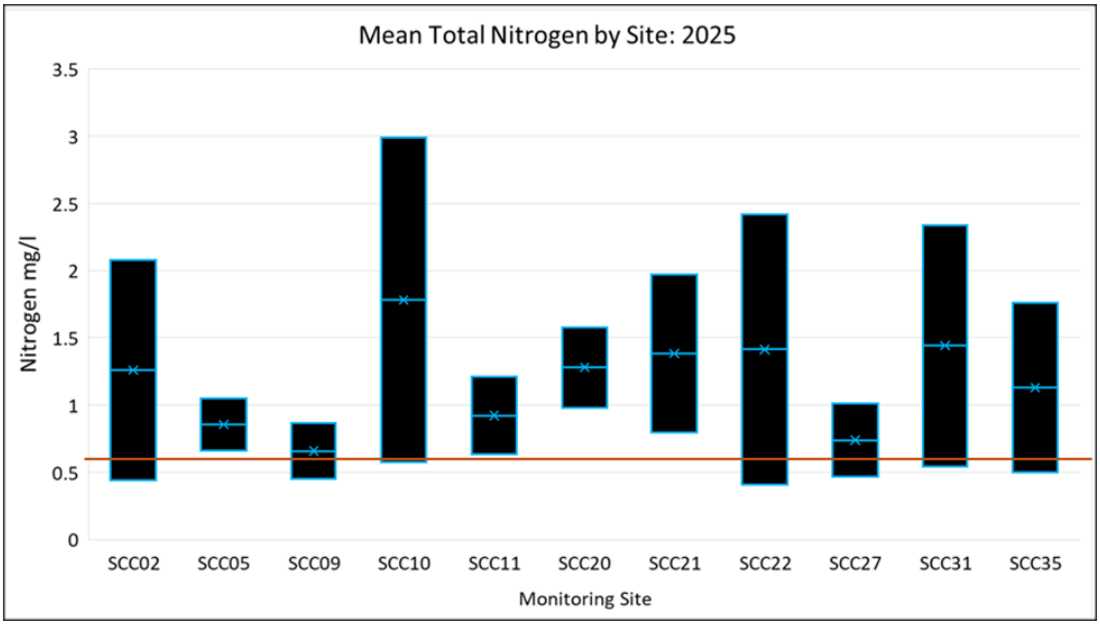



Figure 4. Boxplot showing range and mean (midline) values of total nitrogen (mg/l) concentrations for the 11 sites sampled during this project. The red line indicates the value of Pine Island Sound water quality criteria for this parameter.

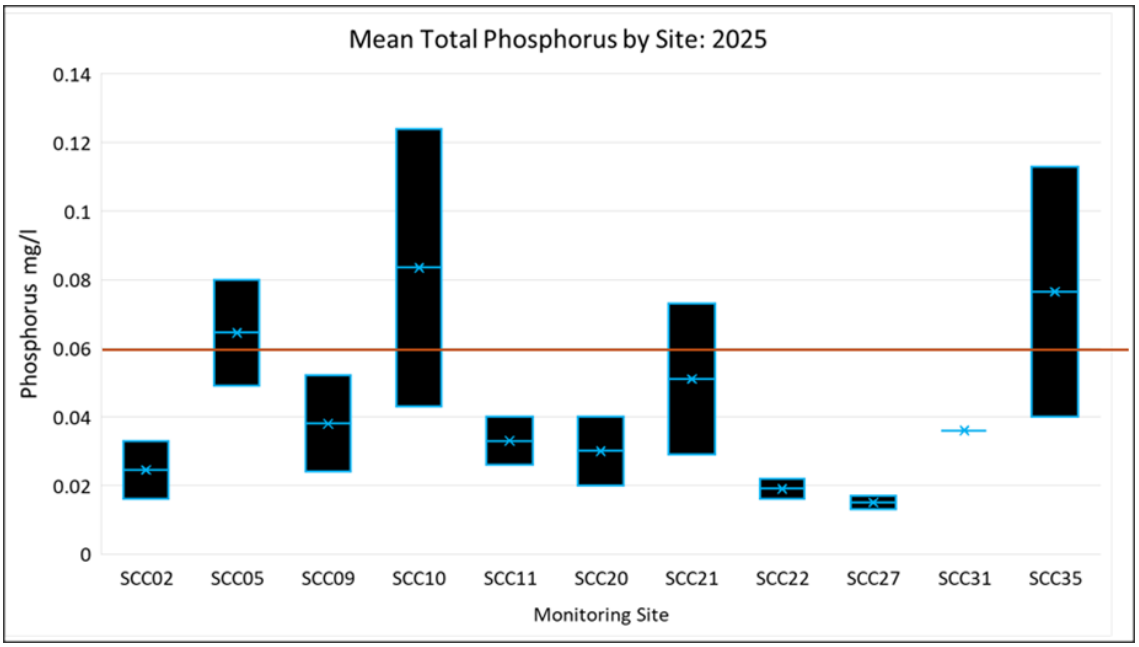



Figure 5. Boxplot showing range and mean (midline) values of total phosphorus (mg/l) concentrations for the 11 sites sampled during this project. The red line indicates the value of Pine Island Sound water quality criteria for this parameter.

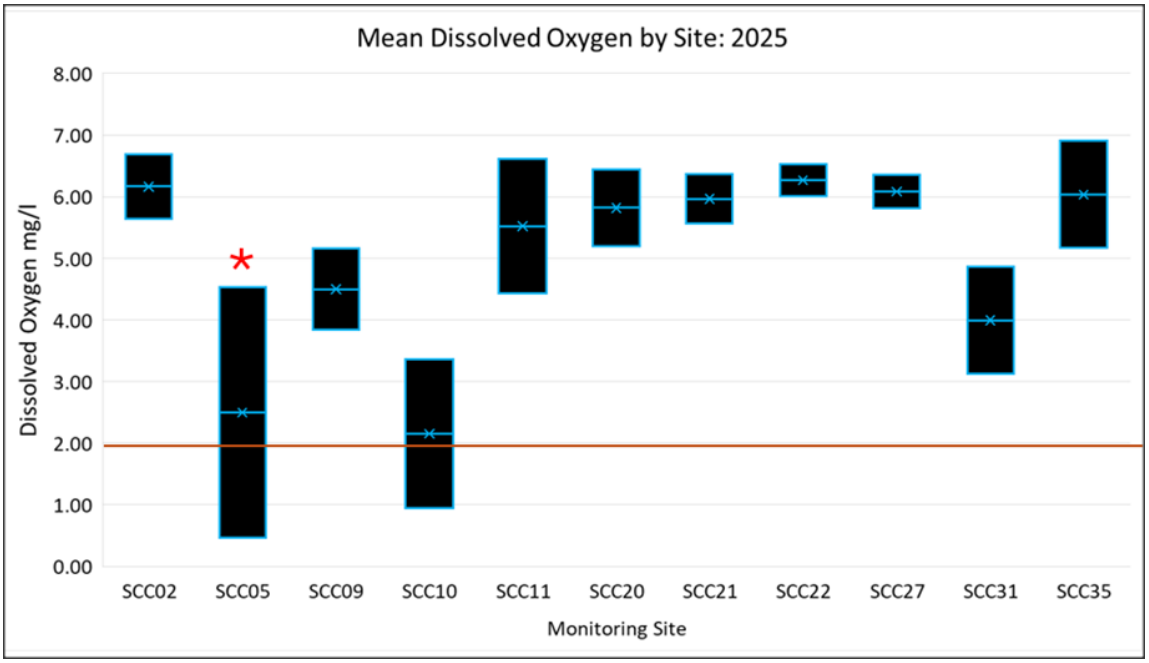



Figure 6. Boxplot showing range and mean (midline) values of dissolved oxygen (mg/l) concentrations for the 11 sites sampled during this project. The red line indicates level at which anoxic conditions prevail. DO at site SCC05 was significantly lower than the other sites.

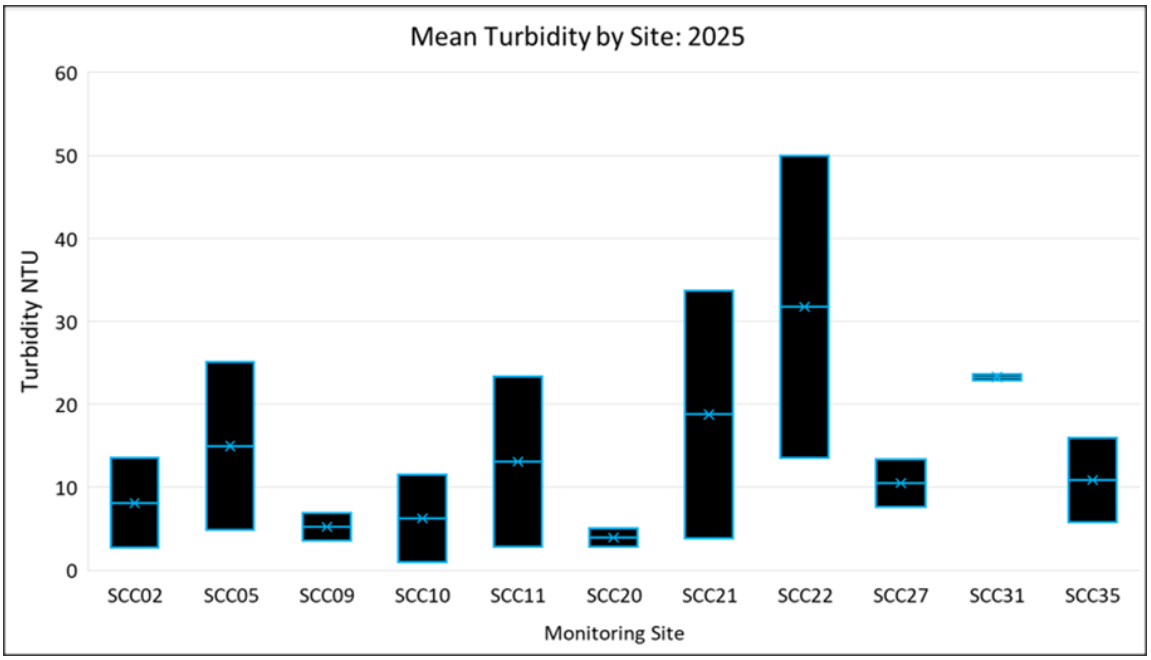



Figure 7. Boxplot showing range and mean (midline) values of turbidity (NTU) concentrations for the 11 sites sampled during this project.

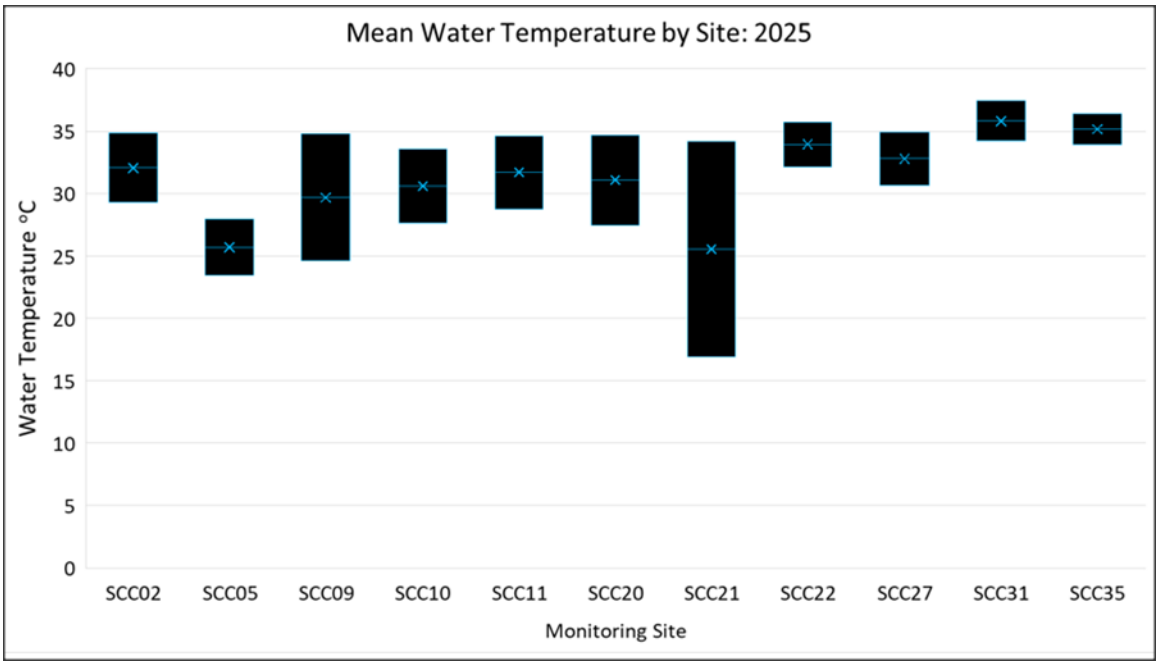



Figure 8. Boxplot showing range and mean (midline) values of water temperature (C) concentrations for the 11 sites sampled during this project.

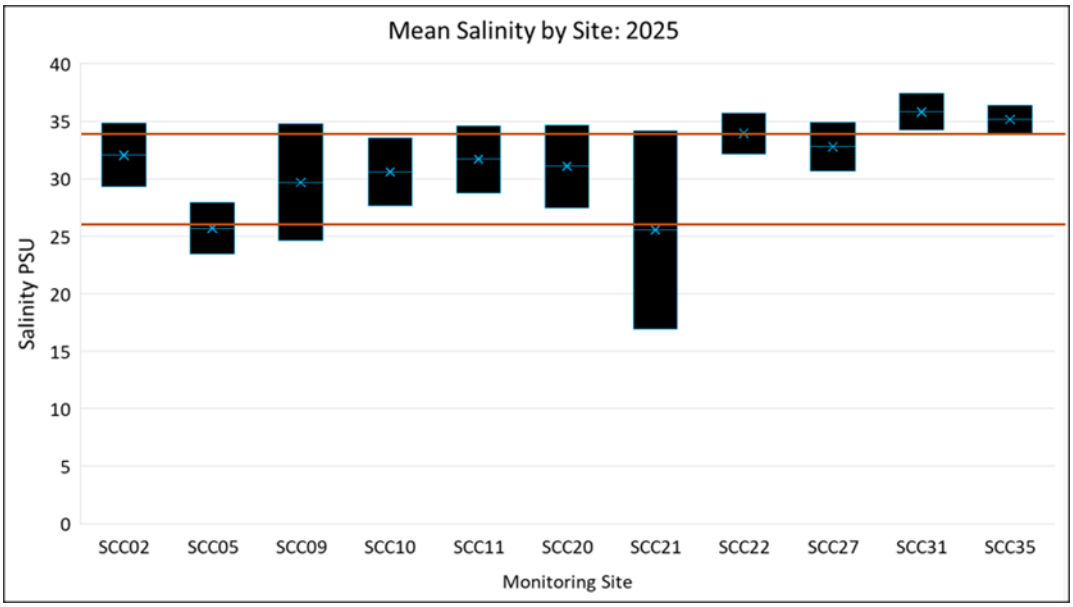



Figure 9. Boxplot showing range and mean (midline) values of salinity (PSU) concentrations for the 11 sites sampled during this project. The lower red line is the mean salinity at Shell Point on the Caloosahatchee, while the upper line is the mean salinity in the Gulf of Mexico near Fort Myers Beach.

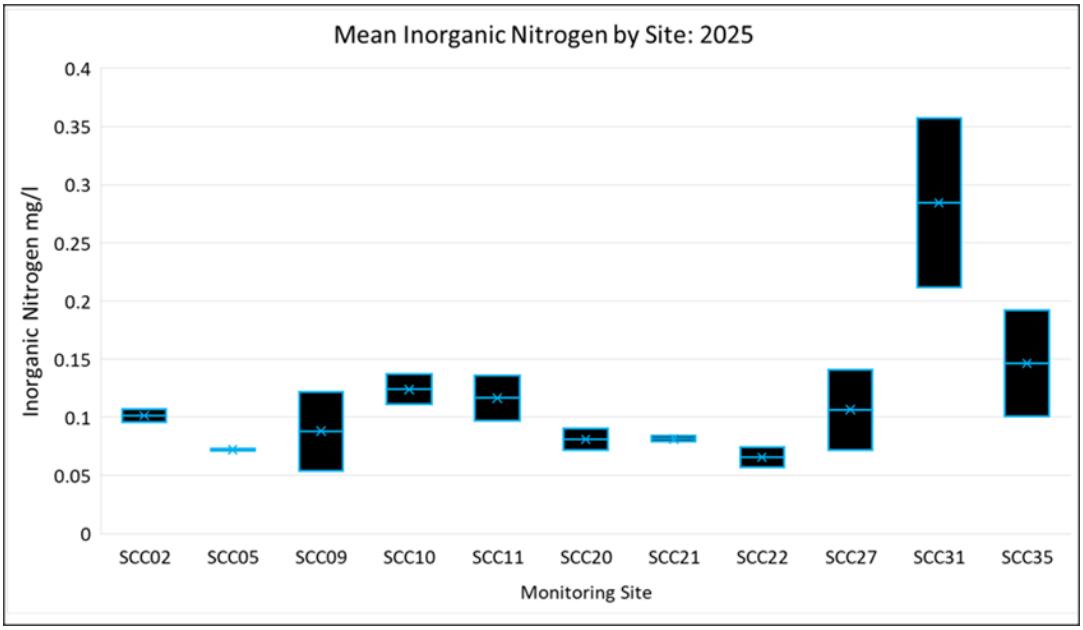



Figure 10. Boxplot showing range and mean (midline) values of inorganic nitrogen (mg/l) concentrations for the 11 sites sampled during this project.

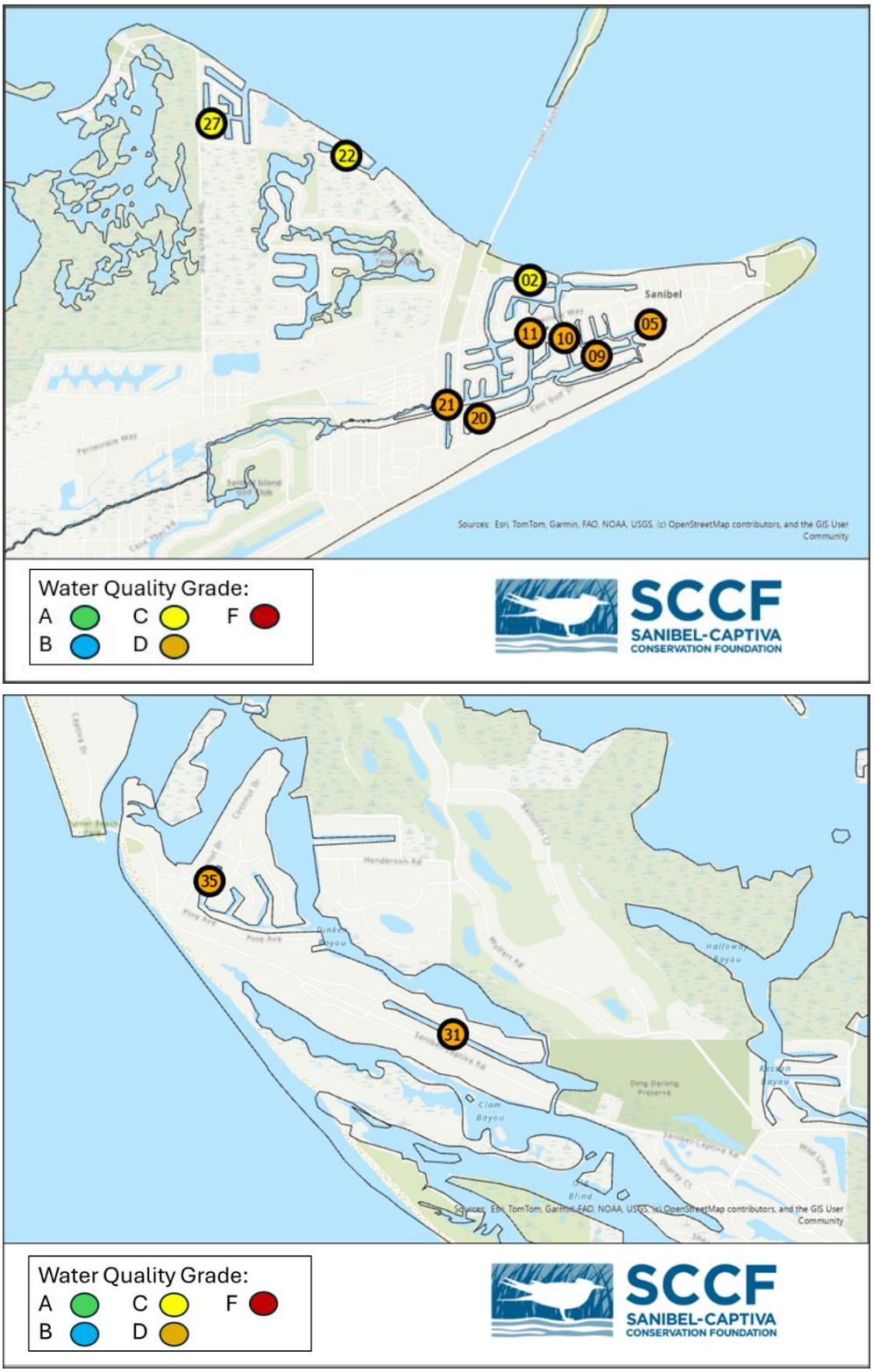



Figure 11a. Water quality grades for each site during this study period (top) and for the 2021 study period (bottom). For both study periods, better water quality occurred at sites nearest the mouth of each canal system while the most interior sites had the worst water quality.

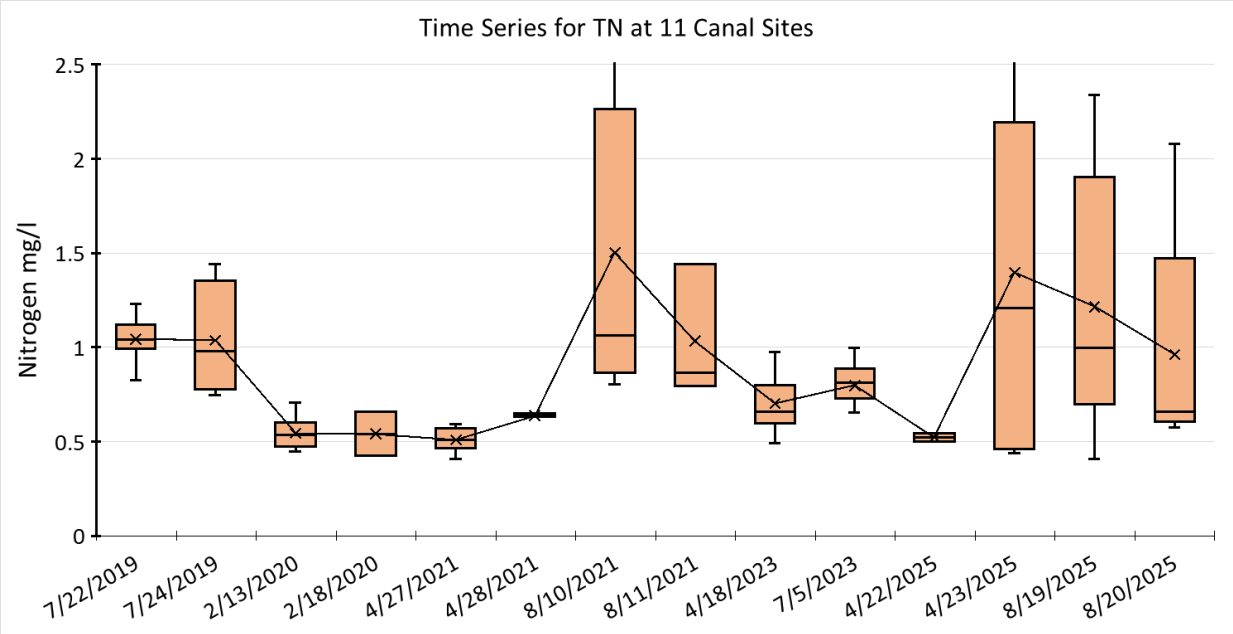



Figure 12. Time series of annual mean values for TN in 11 canals monitored in 2025 No significant trend in TN was decetctable using Kruskal Wallis nonparametric test.

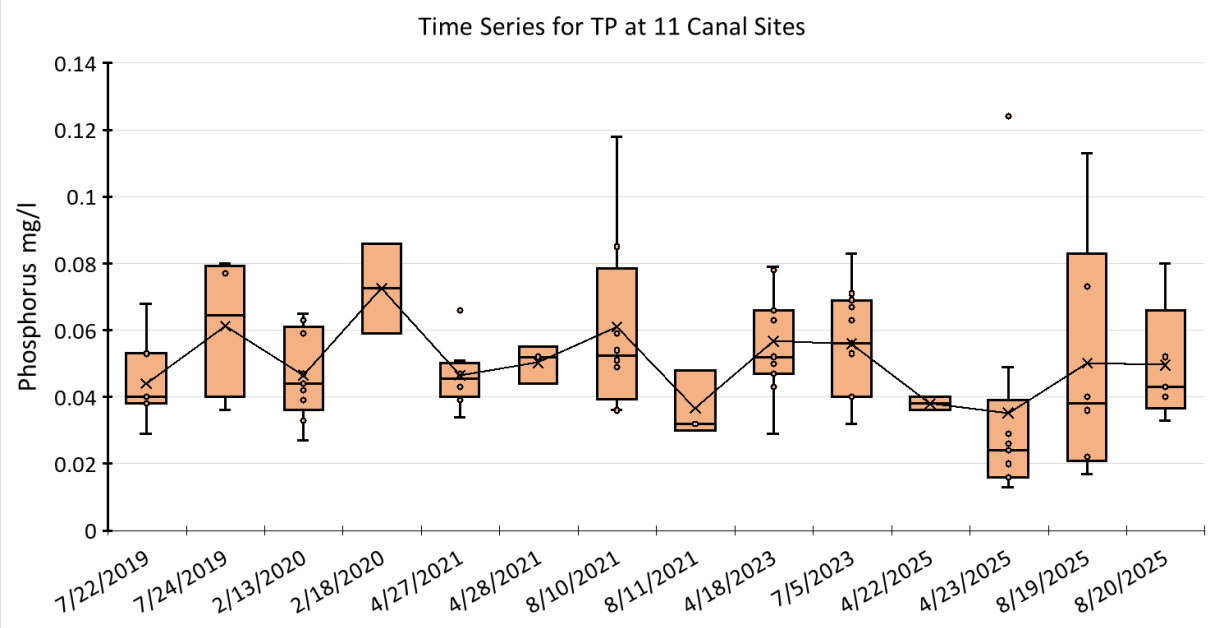



Figure 13. Time series of annual mean values for TP in 11 canals monitored in 2025 No significant trend in TP was decetctable using Kruskal Wallis nonparametric test.

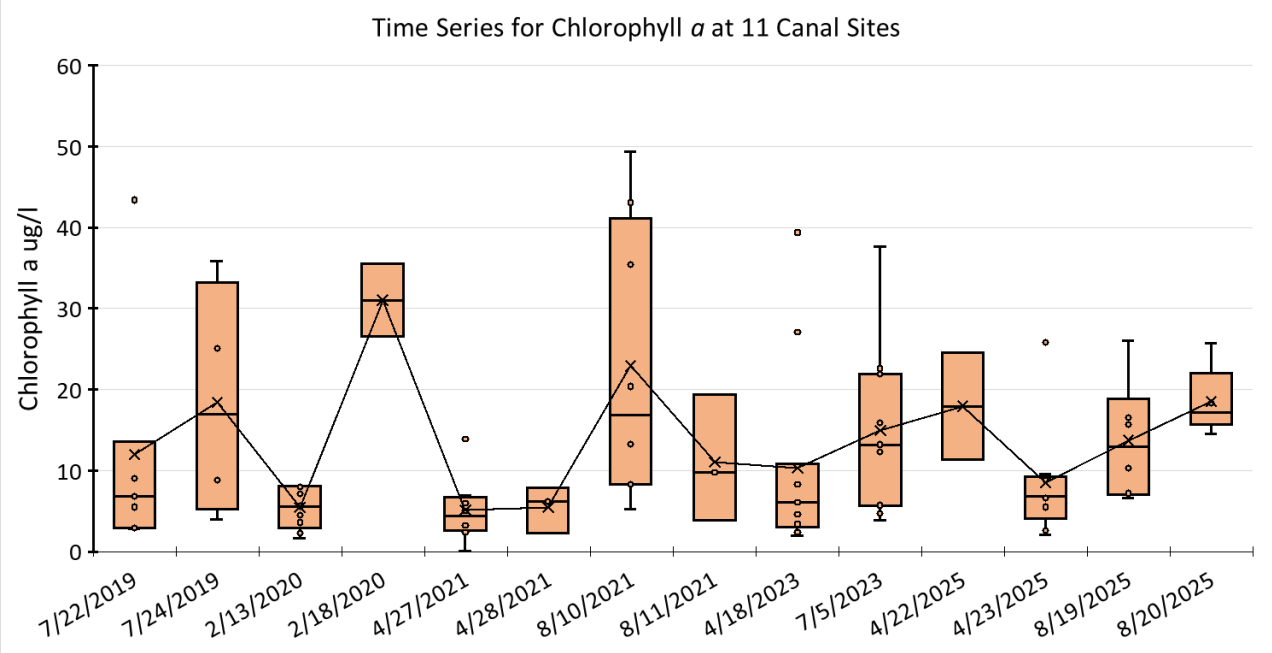



Figure 14. Time series of annual mean values for chlorophyll *a* in 11 canals monitored in 2025. No significant trend in chlorophyll a was detectable using Kruskal Wallis nonparametric test.

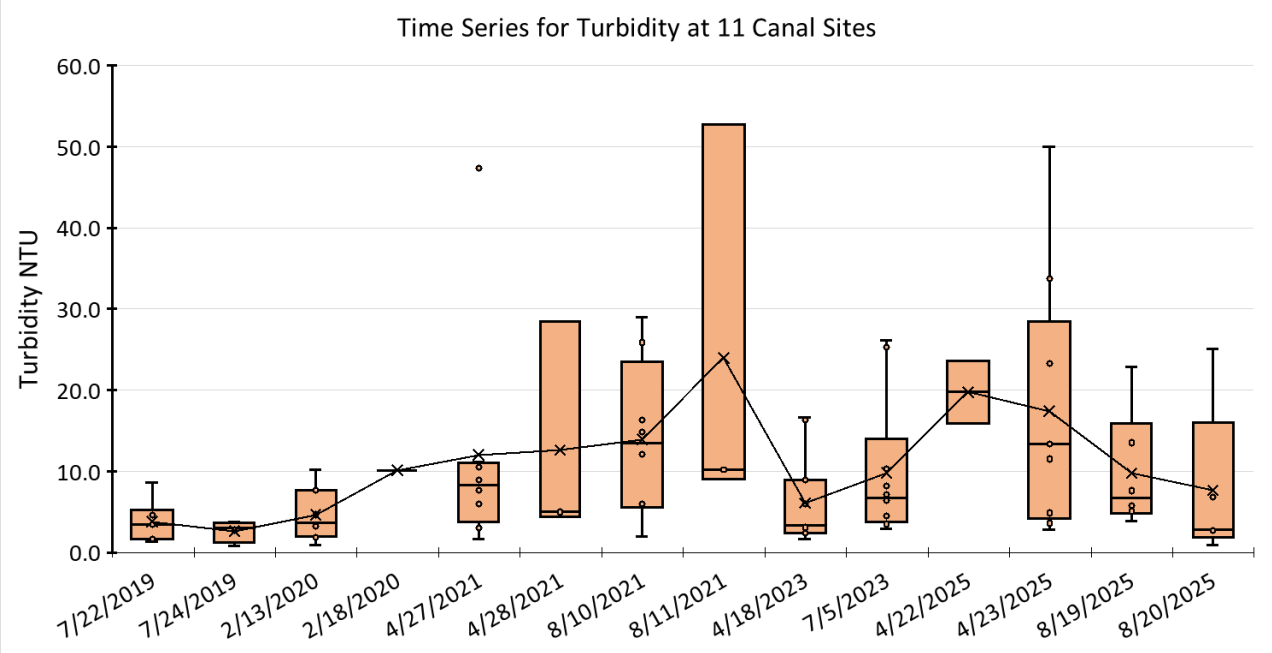



Figure 15. Time series of annual mean values for turbidity in 11 canals monitored in 2025. No significant trend in chlorophyll a was detectable using Kruskal Wallis nonparametric test.

**AGENDA MEMORANDUM** ***Recreation Department***

**City Council Meeting Date: April 21, 2026**

**To:** City Council

**From:** Andrea Miller, Recreation Director
Charlotte Durand, Recreation Deputy Director

**Date:** April 6, 2026

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**Subject**: 2026 Shared Use Path (SUP) Survey Results

**Background**: The Shared Use Path Master Plan was developed in 2009 by the City of Sanibel to provide both residents and visitors a recreational and leisure way of transportation throughout the island. At the beginning and throughout its enhancements, the safety of shared use path users is one of the highest priorities in the City's Master Plan. In 2006 and 2012, surveys were conducted to assess traffic at notable intersections along the shared use path. Since then, three recent surveys have been conducted in 2024, 2025 and 2026 to evaluate usage trends and track the continued emergence of E-bikes on the SUP.

The City of Sanibel was designated a Bicycle Friendly Community (BFC) and awarded gold status by *The League of American Bicyclists* in 2010. Gold award status is currently valid through 2027, with the renewal application due by June 17, 2026. Judges evaluate each application based on the desire of the municipality to improve biking for the unique needs of the people who live and visit the community. Higher award levels will be presented to renewing applicants who have consistently monitored the bicycle usage of the community. Retaining this prestigious gold designation is valuable for The City of Sanibel as it attracts both residents and tourists from around the globe. All Bicycle Friendly America (BFA) awardees are promoted on the League's interactive online Bicycle Friendly America Awards map and on their Connect Locally map.

**Previous Studies:**
The first three surveys (2006, 2012, 2024) were conducted in late April on a Thursday afternoon from 12:30 until 4:30 p.m. and the following Saturday morning from 8:00 a.m. until 12:00 p.m. The past two surveys (2025, 2026) were conducted in early April using the same timeframes to better capture what Sanibel looks like at the height of season. E-bikes were not prevalent in the first two studies, so there is no historical data on E-bike usage on the shared use path for 2006 and 2012. In 2024, 2025 and 2026, counts were collected on E-bikes as part of the survey.

**New Study Results:**
In the past two studies, 2025 and 2026, the surveys were conducted in mid-March with this year's beginning on Thursday, March 12th from 12:30 until 4:30 p.m. and concluding Saturday, March 14th from 8:00 a.m. until 12:00 p.m. A reasonable margin of error must be considered, as volunteers were responsible for observing and recording usage with the human eye and hand-written tally sheets. It should also be noted that these studies were conducted less than four years after hurricane Ian struck Sanibel Island, and about two years after hurricane Helene and Milton did considerable damage as well.

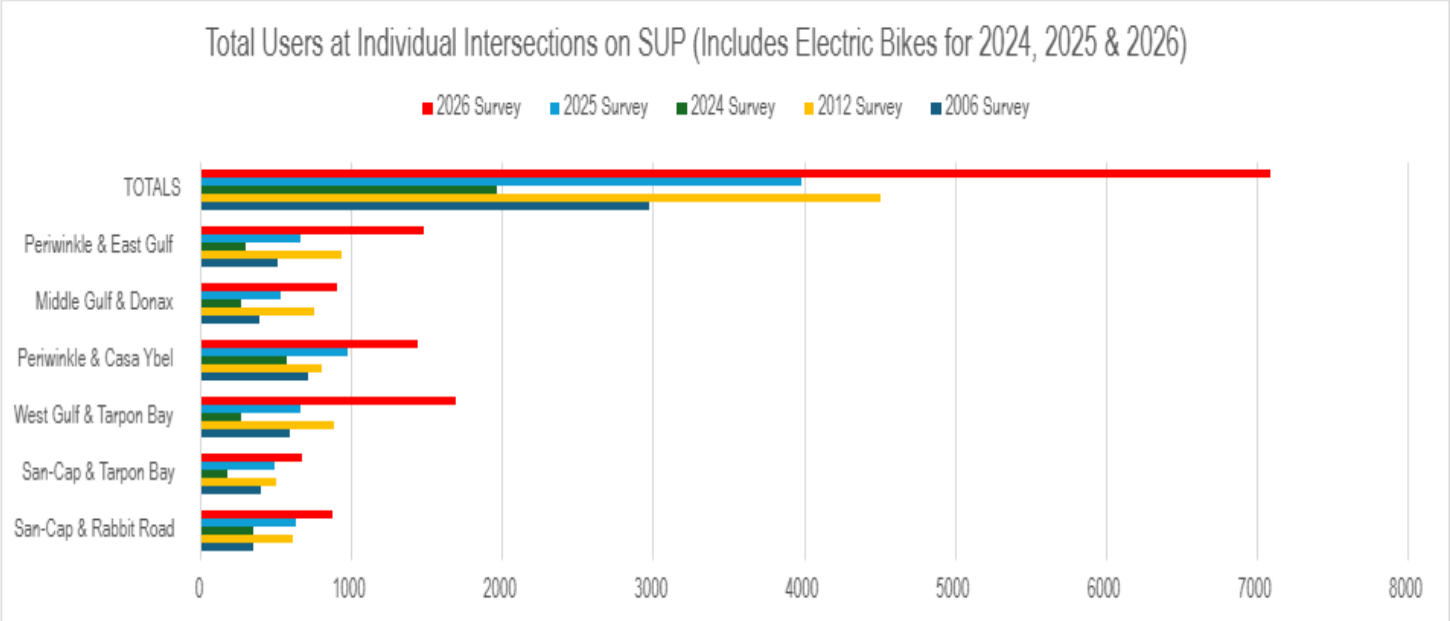
Below are the results of the new 2026 study, complete with usage change from the three prior studies for comparable data. For viewing ease, the current 2026 results have been highlighted in light blue.

**Total Users at Individual Intersections:**

*Exhibit I.*

| Total Users at Individual Intersections on SUP | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Intersections** | **San-Cap & Rabbit Road** | **San-Cap & Tarpon Bay** | **West Gulf & Tarpon Bay** | **Periwinkle & Casa Ybel** | **Middle Gulf & Donax** | **Periwinkle & East Gulf** | **TOTALS** | **% Change from Previous Year** |
| **2006 Survey** | 357 | 400 | 594 | 719 | 390 | 519 | 2979 | |
| **2012 Survey** | 616 | 509 | 886 | 806 | 754 | 935 | 4506 | 45% |
| **2024 Survey** | 351 | 180 | 273 | 579 | 278 | 307 | 1968 | -53% |
| **2025 Survey** | 636 | 498 | 663 | 982 | 540 | 663 | 3982 | 102% |
| **2026 Survey** | 881 | 679 | 1700 | 1443 | 909 | 1479 | 7091 | 78% |

*Graph 1.*




- Bikes on the road were included in these counts.

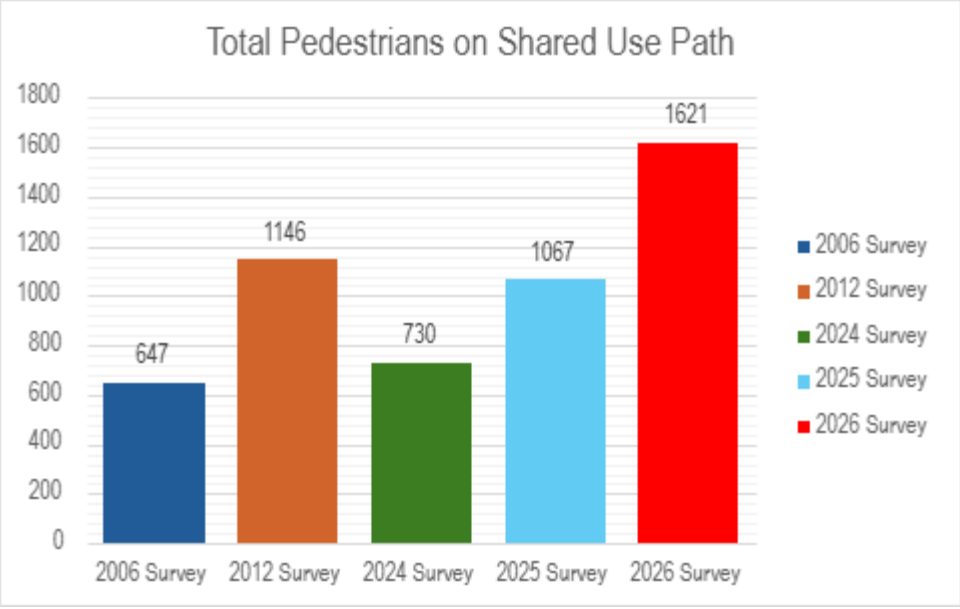
**Pedestrians at Individual Locations on SUP:**

*Exhibit II.*

| Intersections | San-Cap & Rabbit Road | San-Cap & Tarpon Bay | West Gulf & Tarpon Bay | Periwinkle & Casa Ybel | Middle Gulf & Donax | Periwinkle & East Gulf | TOTALS | % Change from Previous Year |
|---|---|---|---|---|---|---|---|---|
| **2006 Survey** | 8 | 14 | 485 | 33 | 107 | 8 | *647* | |
| **2012 Survey** | 28 | 10 | 818 | 115 | 175 | 195 | *1146* | 77% |
| **2024 Survey** | 13 | 7 | 623 | 14 | 73 | 123 | *730* | -36% |
| **2025 Survey** | 27 | 29 | 748 | 92 | 171 | 223 | *1067* | 46% |
| **2026 Survey** | 10 | 23 | 840 | 100 | 184 | 464 | *1621* | 52% |

**Total Pedestrians on the Shared Use Path:**

*Graph II.*




- Pedestrians include both walkers and runners/joggers for all surveys.

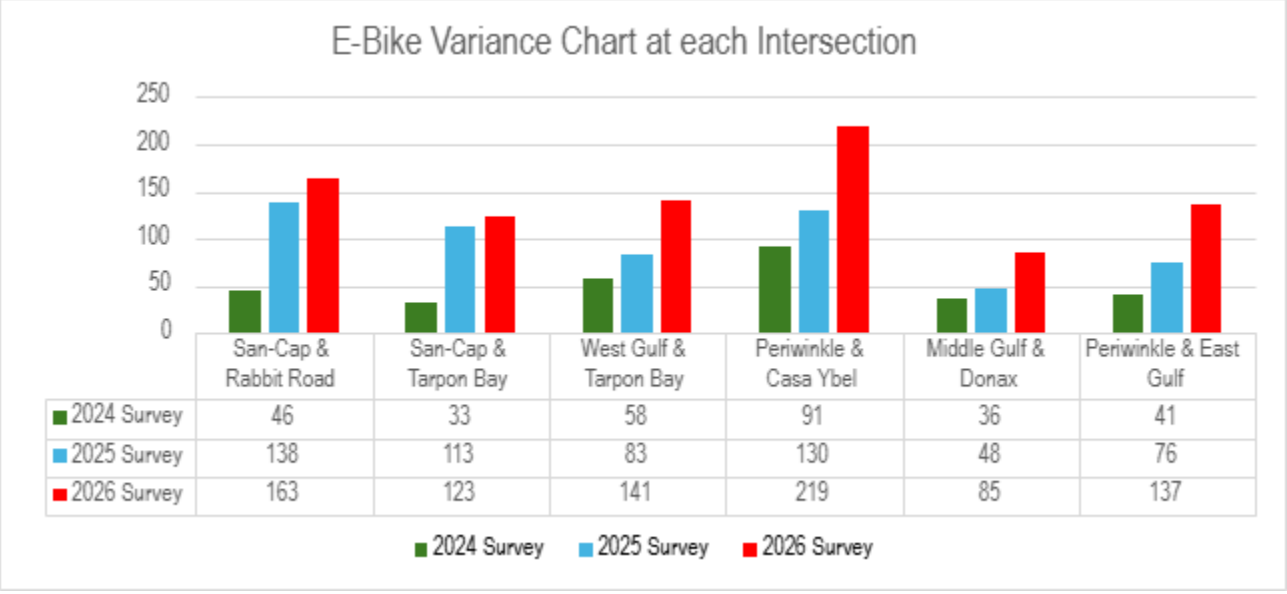
**E-Bikes at Individual Intersections:**

*Exhibit III.*

| E-Bike Totals at Individual Intersections | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Intersections** | **San-Cap & Rabbit Road** | **San-Cap & Tarpon Bay** | **West Gulf & Tarpon Bay** | **Periwinkle & Casa Ybel** | **Middle Gulf & Donax** | **Periwinkle & East Gulf** | **TOTAL** | **% Change from Previous Year** |
| **2024 Survey** | 46 | 33 | 58 | 91 | 36 | 41 | ***305*** | |
| **2025 Survey** | 138 | 113 | 83 | 130 | 48 | 76 | ***588*** | **93%** |
| **2026 Survey** | 163 | 123 | 141 | 219 | 85 | 137 | ***868*** | **45%** |

- 2024, 2025 & 2026 are the only E-bike data collection years.

*Graph III.*



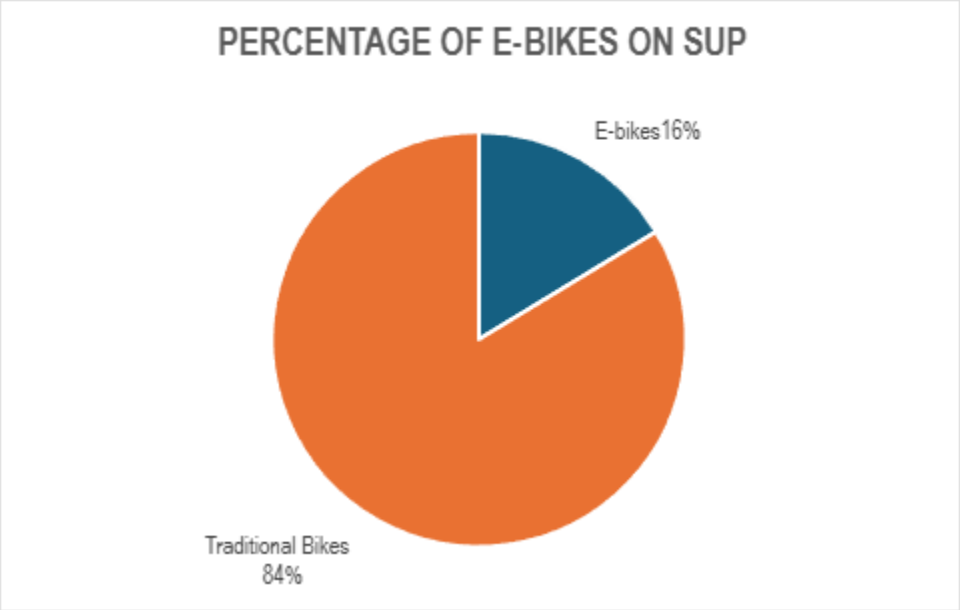
**E-Bikes Compared to Traditional Bikes:**

*Exhibit IV.*

| Electric Bikes Vs. Traditional Bikes 2024 vs. 2025 vs.2026 | | | |
|---|---|---|---|
| **Type of Bike** | **2024** | **2025** | **2026** |
| Electric Bike Riders | 305 | 588 | 868 |
| Traditional Bike Riders | 1663 | 3394 | 4451 |
| Total Riders combined | 1968 | 3982 | 5319 |
| % of Bikes that are Electric | 15% | 15% | 16% |

- Totals for traditional bikes and E-bikes for this comparison in Exhibit IV include those observed on the SUP (does not include bikes on the road).

*Graph IV.*

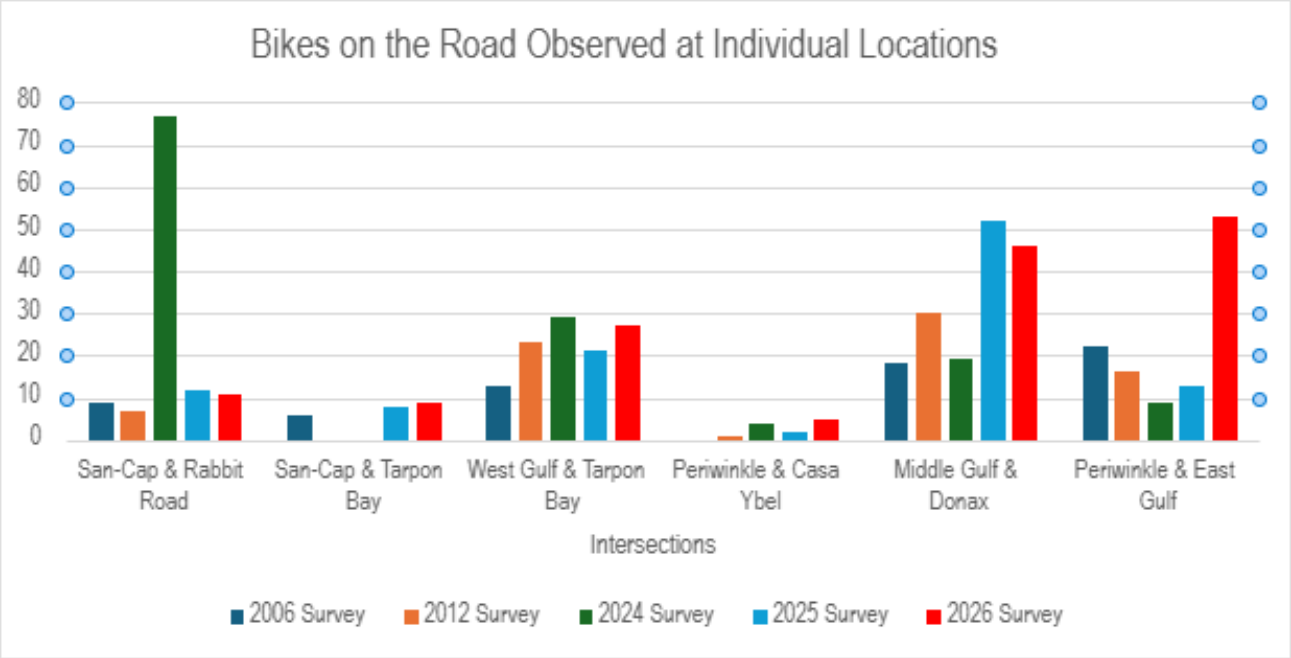


**Bicycles on the Road:**

*Exhibit V.*

| Bikes Observed on the Road at Individual Intersections | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Intersections** | **San-Cap & Rabbit Road** | **San-Cap & Tarpon Bay** | **West Gulf & Tarpon Bay** | **Periwinkle & Casa Ybel** | **Middle Gulf & Donax** | **Periwinkle & East Gulf** | **TOTAL** | **% Change from Previous Year** |
| **2006 Survey** | 9 | 6 | 13 | 0 | 18 | 22 | 68 | |
| **2012 Survey** | 7 | 0 | 23 | 1 | 30 | 16 | 77 | **13%** |
| **2024 Survey** | 77 | 0 | 29 | 4 | 19 | 9 | 138 | **79%** |
| **2025 Survey** | 12 | 8 | 21 | 2 | 52 | 13 | 108 | **-22%** |
| **2026 Survey** | 11 | 9 | 27 | 5 | 46 | 53 | 151 | **40%** |

*Graph V.*



**Bicycle Rentals:**

*Exhibit VI.*

| Rental Bikes on Shared Use Path | | % Change from Previous Year |
|---|---|---|
| **2006 Survey** | 1215 | |
| **2012 Survey** | 1811 | 49% |
| **2024 Survey** | 313 | -83% |
| **2025 Survey** | 931 | 197% |
| **2026 Survey** | 1913 | 105% |

- Rental bikes include bicycles with attached signs displaying the name of a rental facility (does not include bikes on the road).

**Total Overall Shared Use Path Users of All Types:**

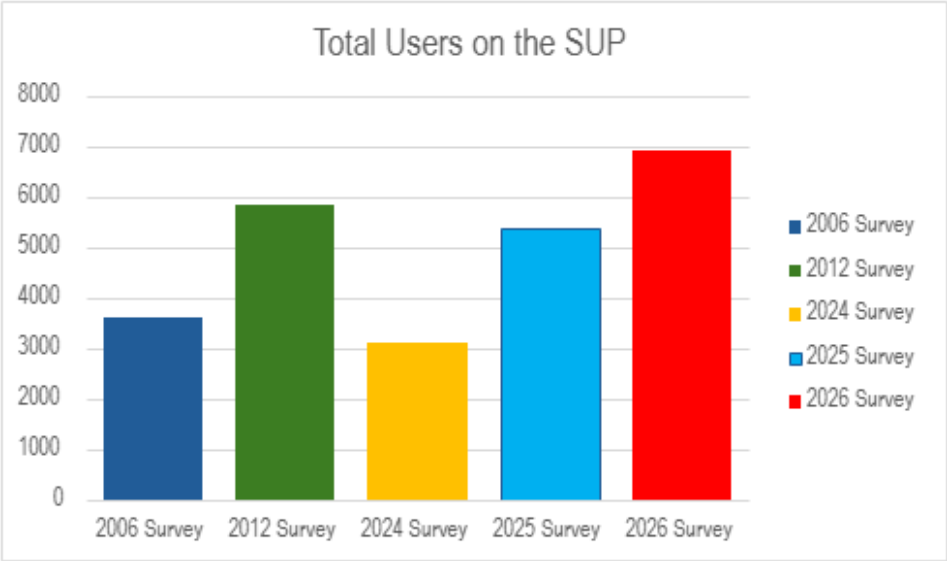
*Exhibit VII.*

| Overall Shared Use Path Users | | % Change from Previous Year |
|---|---|---|
| **2006 Survey** | 3634 | |
| **2012 Survey** | 5847 | 61% |
| **2024 Survey** | 3134 | -46% |
| **2025 Survey** | 5380 | 72% |
| **2026 Survey** | 6940 | 29% |

- Totals for Exhibit VII include all users of all types at all locations ON the Shared Use Path (does not include bikes on the road)
- Total overall shared use path users of all types have increased by 91% since 2006 and are 29% higher than the study in 2025.

**Total Overall Shared Use Path Users of All Types:**

*Graph VII.*




**Bicycle Riders Wearing a Helmet:**

*Exhibit VIII.*

| Total Bike Riders with Helmets | With Helmets | Total Bike Riders | % of Bike Riders wearing a helmet | % Change from Previous Year |
|---|---|---|---|---|
| **2006 Survey** | 1103 | 2979 | 37% | |
| **2012 Survey** | 1773 | 4506 | 38% | 1% |
| **2024 Survey** | 683 | 1968 | 51% | 13% |
| **2025 Survey** | 1715 | 3982 | 43% | -8% |
| **2026 Survey** | 2197 | 5319 | 41% | -2% |

- Total of 5,319 only includes traditional and E-bike totals (does not include bikes on the road).

**Summary of Results:**

- Total overall users of all types at SUP locations have increased to over 7,000 participants (7091 in 2026). The second closest total was in 2012 with a total of 4506; up 64%.

- Total users on the SUP have increased by 42% since the original study in 2006 and almost doubled since the study from 2025 (3982 to 7091).

- Over one half of the total pedestrian traffic (840 of 1621; 52%) on the SUP was observed at the West Gulf and Tarpon Intersection; this location also had the highest usage of all locations at 1700 users (6 total intersections were considered).

- Electric bicycles represent 16% of total bicycle riders on the SUP, with 868 E-bikes observed. For this study, **ALL** intersection recorded equal distribution of E-bike activity; whereas a large majority (42%) of E-bikes were observed at only two intersections studied at Sanibel Captiva Road in 2025. E-bike class was not recorded.

- Bicycle usage on the road has trended up and is at an all-time high, up by 40% from 2025 and over doubling since 2006 (68 to 151). Worth noting, various locations have led each year the study has been conducted, leading the charge in 2026 was Periwinkle Way and East Gulf Drive.

- The number of bike riders wearing helmets has decreased slightly over the past year (down just 2% from 2025), representing 41% of all bicyclists. In 2006, 37% of bicyclists were using a helmet which remained consistent in the 2012 study, where 38% of bike riders wore helmets.

- Rental Bikes users have increased by 64% since 2006 and over 105% since 2025.

- See *Appendix A* for 2025 Shared Use Path Accident/Incident Report summary from the Sanibel Police Department.

# Appendix A

# Shared Use Path Accident/Incident Report Summary
# Sanibel Police Department
# 2025

| Incident # | Situation Found | Sub Situation | Disposition | | Reported Date | Location |
|---|---|---|---|---|---|---|
| S25-000055 | CRASH [SPD] | BICYCLE [CRASH] | D13 CRASH REPORT COMPLETED | Two bicycle collided with one another | 01/01/2025 10:34 | 6497 SANIBEL CAPTIVA RD, SANIBEL, FL, 33957 |
| S25-002130 | CRASH [SPD] | BICYCLE [CRASH] | D13 CRASH REPORT COMPLETED | Vehicle struck rear of bicycle | 01/13/2025 16:43 | 1015 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-002482 | DAMAGE TO CITY PROPERTY [SPD] | Class 2 E-Bike | D04 WRITTEN REPORT | Struck side of patrol vehicle | 01/15/2025 15:38 | 1156 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-005761 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclist stopped, leaned over to pick up trash, fell hitting his head | 01/31/2025 12:56 | 4044 SANIBEL CAPTIVA RD, SANIBEL, FL, 33957 |
| S25-006504 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclist struck a fence post that was leaning onto the SUP | 02/04/2025 12:23 | 1191 MIDDLE GULF DR, SANIBEL, FL, 33957 |
| S25-006709 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclist lost his balance and fell off bicycle | 02/05/2025 11:43 | MIDDLE GULF DR\FULGUR ST, SANIBEL |
| S25-006861 | BATTERY [SPD] | BICYCLE [SUP] | D04C CRIME REPORT | Operator of a scooter purposely struck front tire of bicyle | 02/06/2025 11:33 | 3402 WEST GULF DR, SANIBEL, FL, 33957 |
| S25-008175 | CRASH [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclists handles struck one another causing crash | 02/13/2025 10:07 | 770 DONAX ST, SANIBEL, FL, 33957 |
| S25-009080 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclist lost his balance and fell off bicycle | 02/18/2025 13:13 | 348 CASA YBEL RD, SANIBEL, FL, 33957 |
| S25-010524 | 911 CALL [SPD] | E-Bike/UNK Class | D06 TURNED OVER TO | Dog leash got caught in front tire causing bicyclist to fall of e-bike | 02/25/2025 10:21 | 1250 PAR VIEW DR, SANIBEL, FL, 33957 |
| S25-011316 | INFORMATION [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Vehicle struck bicyclist in crosswalk/vision blocked by U-Haul | 03/01/2025 12:52 | PERIWINKLE WAY\DONAX ST, SANIBEL |
| S25-012247 | CRASH [SPD] | BICYCLE [SUP] | D14 DRIVERS EXCHANGE | Vehicle struck bicyclist as vehicle was leaving parking lot | 03/06/2025 13:23 | 1619 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-012638 | INFORMATION [SPD] | | D04 WRITTEN REPORT | Information report/No incident | 03/08/2025 11:14 | 3840 SANIBEL CAPTIVA, SANIBEL |
| S25-013409 | CRASH [SPD] | BICYCLE /ROADWAY | D13 CRASH REPORT COMPLETED | Bicyclist operating on Periwinkle Way struck as turned into Farm Trl | 03/12/2025 10:39 | PERIWINKLE WAY\FARM TRL, SANIBEL |
| S25-015683 | VIOLATION CITY ORDINANCE [SPD] | Class 2 E-Bike | D03 ALL OK | Warning given for operating on SUP | 03/25/2025 16:09 | 1700 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-015685 | VIOLATION CITY ORDINANCE [SPD] | Class 2 E-Bike | D21 VCO WARNING ISSUED | Warning given for operating on SUP | 03/25/2025 16:26 | 1700 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-016222 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [CRASH] | D04 WRITTEN REPORT | Bicylist used front brake and fell off bicycle | 03/28/2025 13:25 | TARPON BAY RD / WEST GULF DR, SANIBEL, FL, 33957 |
| S25-016553 | 911 CALL [SPD] | MEDIC CALL [911] | D04 WRITTEN REPORT | Bicyclist became dizzy and got off bicycle | 03/30/2025 12:40 | 2265 WEST GULF DR, SANIBEL, FL, 33957 |
| S25-017068 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [CRASH] | D04 WRITTEN REPORT | Bicyclist handlebar struck tree near SUP causing crash | 04/02/2025 08:36 | 203 TARPON BAY RD, SANIBEL, FL, 33957 |
| S25-018901 | TRAFFIC STOP [SPD] | BICYCLE [SUP] | D10 TICKET ISSUED | Bicyclist operating w/o headlight at night | 04/11/2025 21:55 | DIXIE BEACH BLVD / CENTRE ST, SANIBEL, FL, 33957 |
| S25-019586 | CRASH [SPD] | BICYCLE [CRASH] | D13 CRASH REPORT COMPLETED | Bicyclist struck in crosswalk by vehicle turning | 04/15/2025 07:47 | SKIFF PL / PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-019753 | 911 CALL [SPD] | MEDIC CALL [911] | D06 TURNED OVER TO | Bicyclist handlebars struck one another | 04/16/2025 10:01 | SANIBEL CAPTIVA RD / TAMARIND RD, SANIBEL, FL, 33957 |
| S25-020108 | TRAFFIC STOP [SPD] | BICYCLE [SUP] | D21 VCO WARNING ISSUED | Bicyclist was warned rear light on bicycle | 04/18/2025 22:02 | 1200 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-021745 | INFORMATION [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Unverifiable cause of bicyclist falling off bicycle | 04/28/2025 08:35 | TARPON BAY RD / WEST GULF DR, SANIBEL, FL, 33957 |
| S25-022507 | SHARED USE PATH INCIDENT [SPD] | Class 1 E-Bike | D04 WRITTEN REPORT | E-Bike stopped suddenly to avoid a vehicle/hit brakes, fell off e-bike | 05/01/2025 16:36 | 1704 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-026269 | SHARED USE PATH INCIDENT [SPD] | E-BIKE [SUP] | D04 WRITTEN REPORT | Bicyclist reported he was struck by e-bike/unable to investigate due to reporting a day later | 05/20/2025 17:26 | PERIWINKLE WAY / DONAX ST, SANIBEL, FL, 33957 |
| S25-029272 | CRASH [SPD] | E-Minibike | D13 CRASH REPORT COMPLETED | Minibike struck by vehicle exiting parking lot | 06/03/2025 12:23 | 1203 PERIWINKLE, SANIBEL, FLORIDA, 33957 |
| S25-032802 | TRAFFIC STOP [SPD] | | D09 WARNING ISSUED | Bicyclist ran stop sign | 06/21/2025 07:43 | LINDGREN, SANIBEL, FLORIDA, 33957 |
| S25-032964 | CRASH [SPD] | BICYCLE [CRASH] | D13 CRASH REPORT COMPLETED | Crash occurred on Periwinkle and Donax not SUP | 06/22/2025 07:59 | DIXIE BCH, SANIBEL, FLORIDA, 33957 |
| S25-033921 | SHARED USE PATH INCIDENT [SPD] | Scooter | D21 VCO WARNING ISSUED | Scooter struck grass area at the edge of SUP | 06/26/2025 12:15 | PEN SHELL DR / PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-038563 | ASSIST [SPD] | PERSON [ASSIST] | D04 WRITTEN REPORT | Bicyclist having breathing difficulty | 07/20/2025 10:20 | 5116 SANIBEL CAPTIVA RD, SANIBEL, FL, 33957 |
| S25-039335 | 911 CALL [SPD] | MEDIC CALL [911] | D06 TURNED OVER TO | Bicyclist foot got stuck in front spokes | 07/23/2025 16:00 | 1873 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-039936 | 911 CALL [SPD] | MEDIC CALL [911] | D06 TURNED OVER TO | Dehydrated bicyclist | 07/26/2025 09:56 | 4092 SANIBEL CAPTIVA RD, SANIBEL, FL, 33957 |
| S25-040927 | CHECK WELL BEING [SPD] | | D01 UNFOUNDED | Unfounded report | 07/30/2025 15:37 | 2340 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-051046 | 911 CALL [SPD] | MEDIC CALL [911] | D06 TURNED OVER TO | Dehydrated bicyclist | 09/20/2025 12:36 | MARTHAS LN / PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-057527 | SHARED USE PATH INCIDENT [SPD] | E-BIKE [CRASH] | D04 WRITTEN REPORT | E-Bike operator lost balance/unable to determine if an accident occurred | 10/24/2025 11:04 | 1700 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-058193 | SHARED USE PATH INCIDENT [SPD] | MEDIC CALL [911] | D18 CALL HANDLED BY DISPATCH | Biker attempted to mount bicycle and fell | 10/27/2025 13:21 | 1675 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-059128 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D06 TURNED OVER TO | Bicyclist rode too close to the edge of SUP and fell off | 11/01/2025 09:25 | 2265 WEST GULF DR, SANIBEL, FL, 33957 |
| S25-062042 | ASSIST [SPD] | Class 2 E-Bike | D04 WRITTEN REPORT | Transportation provided for intoxicated operator | 11/13/2025 21:51 | DIXIE BEACH BLVD / PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-062821 | SHARED USE PATH INCIDENT [SPD] | BICYCLIST [ASSIST] | D04 WRITTEN REPORT | Operator fell off bicycle | 11/17/2025 11:32 | CASA YBEL RD / MIDDLE GULF DR, SANIBEL, FL, 33957 |
| S25-063054 | TRAFFIC STOP [SPD] | | D10 TICKET ISSUED | Vehicle driver ran stop sign, did not strike bicyclist | 11/18/2025 11:12 | 2475 WEST GULF DR, SANIBEL, FL, 33957 |
| S25-063946 | SHARED USE PATH INCIDENT [SPD] | E-BIKE [SUP] | D06 TURNED OVER TO | Applied brakes and fell off | 11/22/2025 12:53 | 1619 PERIWINKLE WAY, SANIBEL, FL, 33957 |
| S25-070245 | SHARED USE PATH INCIDENT [SPD] | BICYCLE [SUP] | D04 WRITTEN REPORT | Bicyclist fell off bicycle | 12/20/2025 15:35 | CASA YBEL RD, SANIBEL, FLORIDA, 33957 |
| S25-072441 | ASSIST [SPD] | BICYCLE | D09 WARNING ISSUED | Education provided by officer | 12/30/2025 15:13 | TARPON BAY RD / WEST GULF DR, SANIBEL, FL, 33957 |

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager

**Date:** April 12, 2026

**SUBJECT:** Discussion of reducing speed limits on Periwinkle Way, Rabbit Road, and a segment of Sanibel-Captiva Rd. between Rabbit Road and the western limit of the Sanibel School Speed Zone.

**BACKGROUND**: At its March 3, 2026, meeting, the City Council received the "Speed Study and Passing Zone Analysis" (the "Speed Analysis"). The Speed Analysis meets the requirements of Section 316.183(2), Florida Statutes, authorizing the City Council to reduce speed limits on City roadways. Following discussion and public comment, the City Council reached consensus directing staff to return with an action item to reduce speed limits on the following roads:

1. E. Periwinkle Way from Causeway Blvd. to Lighthouse Beach Park – reduce the speed limit from 35 mph to 25 mph.

2. Periwinkle Way from Causeway Blvd. to Tarpon Bay Rd. – reduce the speed limit from 35 mph to 30 mph.

Because Section 66-121 of the Sanibel Code of Ordinances currently establishes the maximum speed limit on Periwinkle Way from Ferry Road (east) to Tarpon Bay Road (west), the Code must be amended in order to reduce the speed limit on that roadway. Earlier today, the City Council received and discussed a draft ordinance that removes the existing text in Sections 66-121 and 66-122 and replaces it with provisions establishing a citywide maximum speed limit of 35 miles per hour and authorizing the City Council to set specific speed limits by resolution.

If the City Council advances the ordinance to second reading at its May 3, 2026, meeting, staff will present a corresponding Resolution for consideration at that same meeting. Draft Resolution 26-012 is included in the agenda packet for this item.

The draft Resolution also establishes a maximum rate of speed of 10 miles per hour for the Bay Drive Bridge as currently provided for in Section 66-121.

On March 3, 2026, the City Council also asked staff to return the following speed limit reductions for discussion.

1. Rabbit Road from Sanibel-Captiva Rd. to West Gulf Drive – consider reducing the speed limit from 30 mph to 25 mph and to provide information for wildlife mortality on Rabbit Road.

2. Sanibel-Captiva Rd. from Rabbit Road to the western limit of the Sanibel School speed zone – consider reducing the speed limit from 35 mph to 30 mph and to provide information for wildlife mortality on Rabbit Road.

The presentation included in the agenda packet for this item will be used to lead the discussion with City Council. The Wildlife Mortality Monitoring and Reporting Update presentation from the November 4, 2025, City Council meeting is also included in the agenda packet.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**: Discussion and direction.

**CITY OF SANIBEL**
**DRAFT RESOLUTION 26-012**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPROVING A REDUCTION IN THE SPEED LIMIT OF PERIWINKLE WAY AND RECONFIRMING THE SPEED LIMIT FOR THE BRIDGE AT BUELL CREEK ON BAY DRIVE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, Periwinkle Way is a primary east-west corridor serving residents, businesses, pedestrians, and cyclists within the City of Sanibel; and

**WHEREAS,** the City of Sanibel prioritizes public safety and multimodal transportation, including safe access for pedestrians, bicyclists, and motorists; and

**WHEREAS,** the Speed Study & Passing Zone Analysis was presented to the City Council on March 3, 2026, meets the requirements of Section 316.183(2), Florida Statutes and recommends that lowering the speed limit on Periwinkle Way will improve roadway safety for all users; and

**WHEREAS,** the character of Periwinkle Way includes residential and mixed-use areas with frequent driveway access, intersections, and pedestrian crossings that warrant reduced roadway speeds; and

**WHEREAS,** Section 66-121 of the Sanibel Code of Ordinances grants the City Council the authority to establish speed limits by Resolution; and

**WHEREAS,** the City Council finds that lowering the speed limits along specified segments of Periwinkle Way is in the best interest of public health, safety, and welfare; and

**WHEREAS,** the speed limit for the bridge at Buell Creek on Bay Drive (formerly known as Old Bayshore Road) was previously set at 10 miles per hour by ordinance, codified in Section 66-122, and the City Council desires to reconfirm that speed limit herein.

.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA:**

**SECTION 1.** The City Council hereby approves the following reductions in the speed limit of Periwinkle Way:

a. From Causeway Boulevard, east to the Lighthouse Beach, the roadway speed limit shall be reduced from 35 mph to 25 mph; and

b. From Causeway Boulevard, west to Tarpon Bay Road, the roadway speed limit shall be reduced from 35 mph to 30 mph.

**SECTION 2.** The City Council hereby reconfirms the maximum rate of speed for any vehicle traversing the bridge at Buell Creek on Bay Drive (formerly known as Old Bayshore Road) shall be ten miles per hour and it is unlawful and prohibited for any person to exceed such speed limit.

**SECTION 3.** This resolution shall take effect immediately upon adoption.

**PASSED IN OPEN AND REGULAR SESSION OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA THIS 5TH DAY OF MAY 2026.**

Attest:

Scotty Lynn Kelly, City Clerk , Mayor

Approved as to form and legality:

John D. Agnew, City Attorney

Date filed with City Clerk: _____

Vote of Council Members:

DeBruce _____
Henshaw _____
Johnson _____
Miller _____
Smith _____

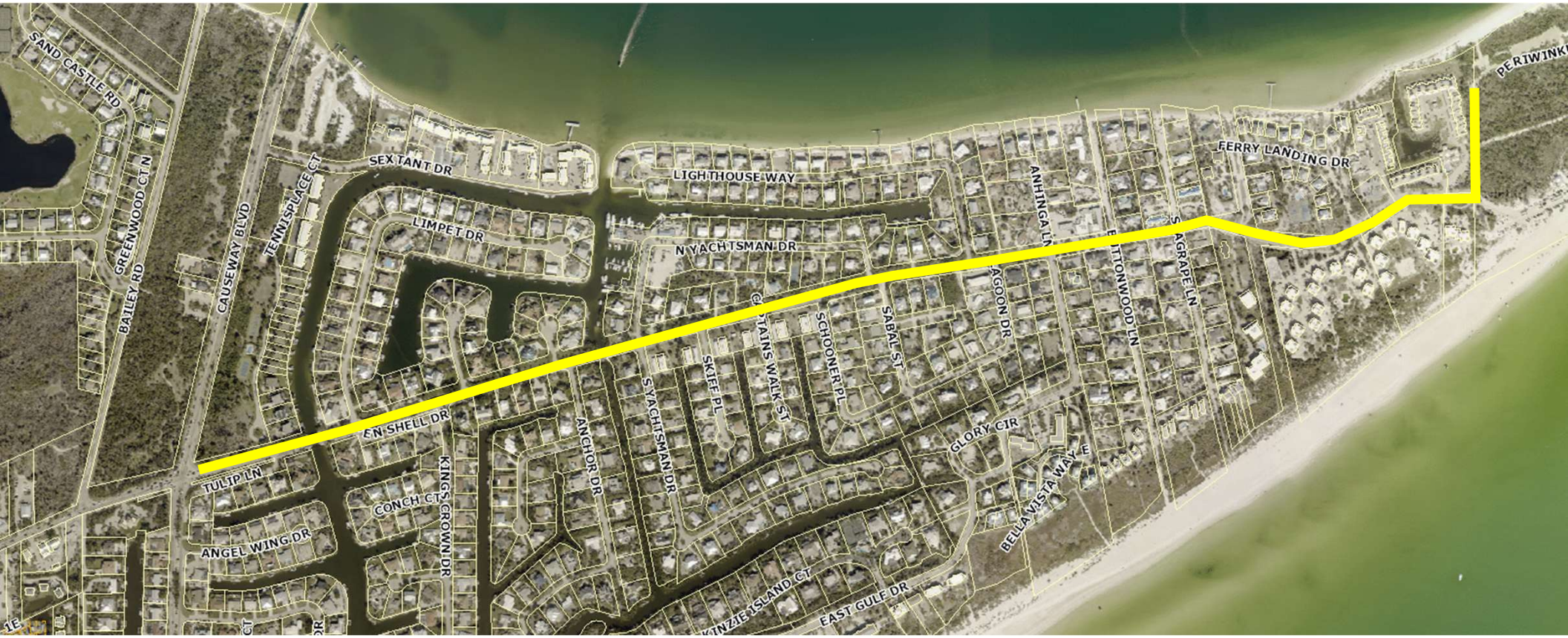
# City of Sanibel
# Speed Limit Reduction Discussion

E. Periwinkle Way, Periwinkle Way, Rabbit Rd. San-Cap Rd. Between Rabbit Rd. and the Western Boundary of the Sanibel School Speed Zone

## Sanibel City Council

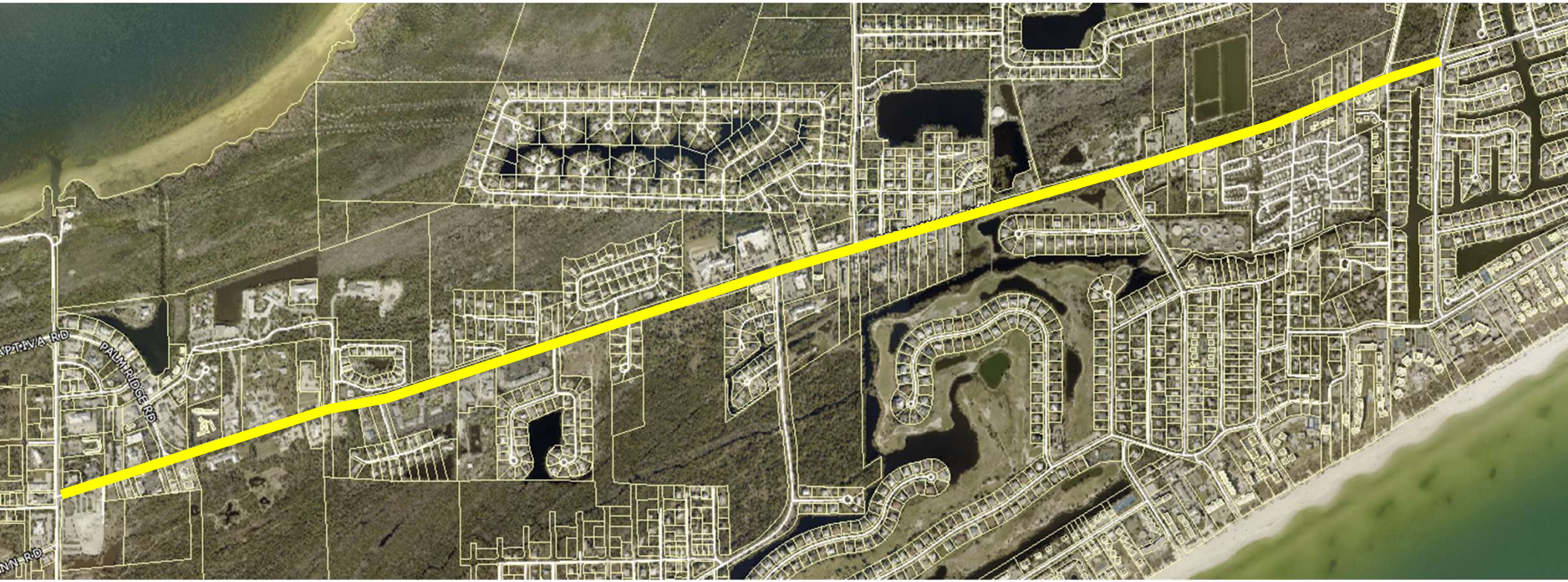
April 21, 2026

# Recommendation 1

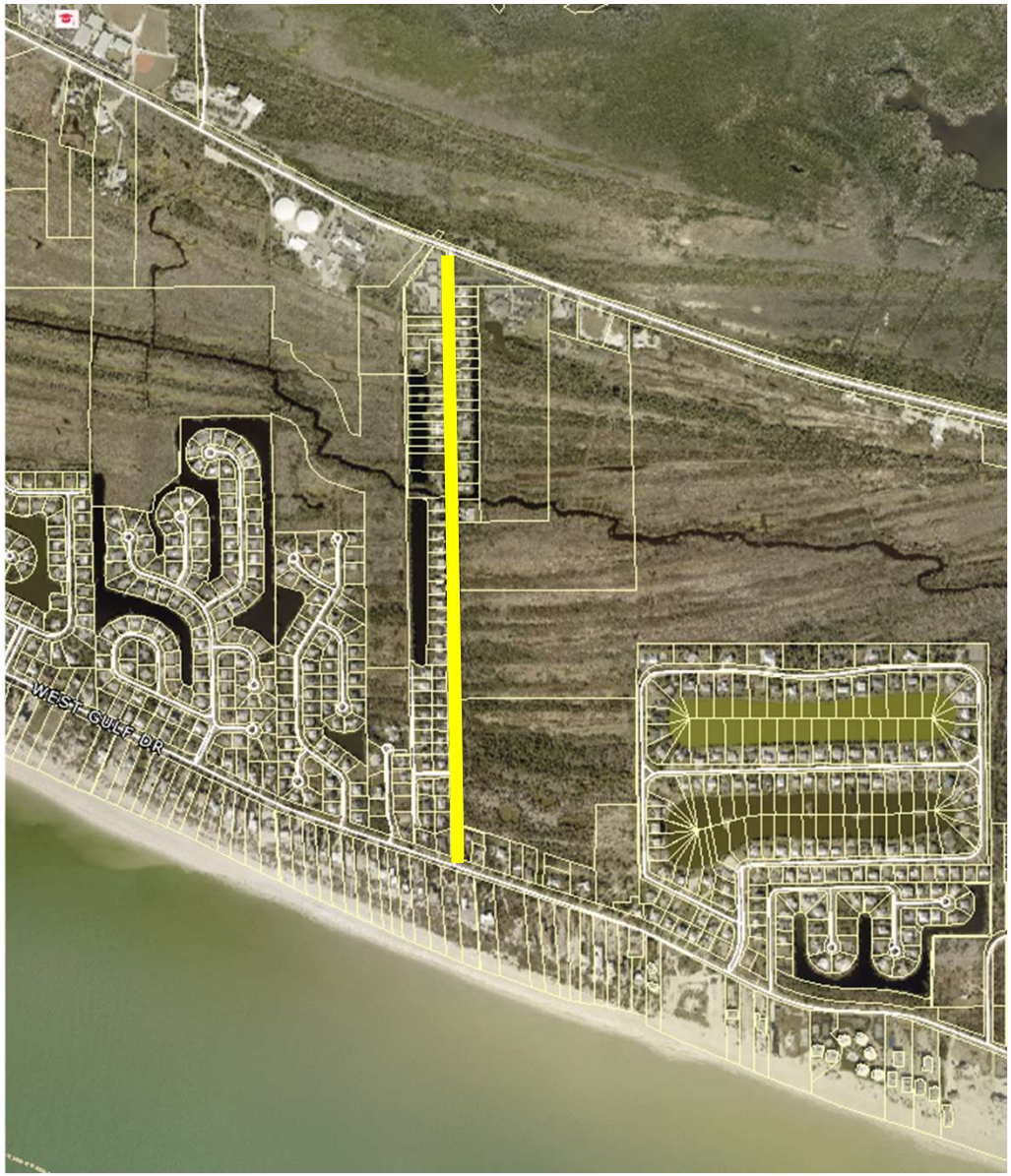



East Periwinkle Way from Causeway Blvd. to Lighthouse Beach Park – Speed Limit Change From 35 mph to 25 mph

# Recommendation 2



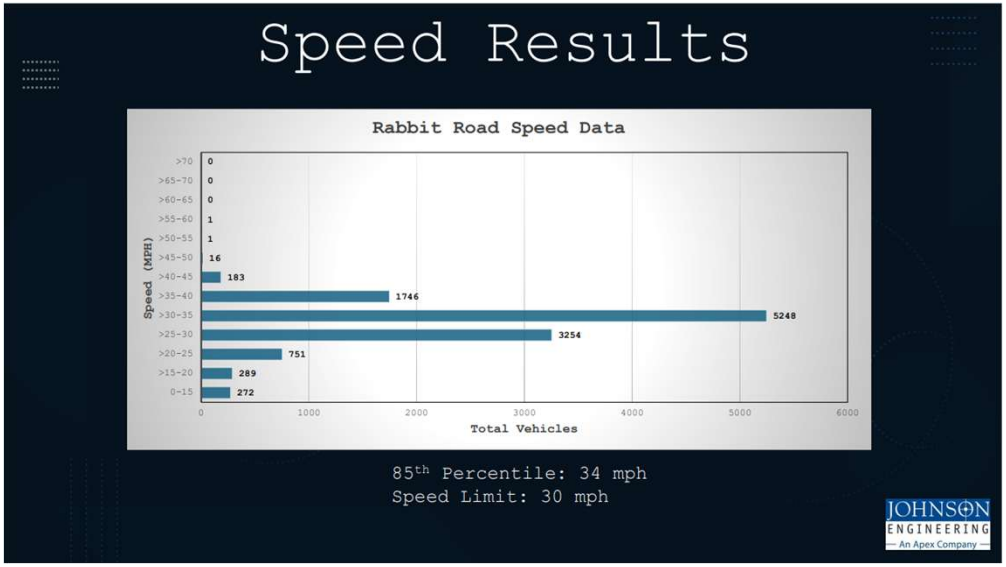

Periwinkle Way between Causeway Blvd. and Tarpon Bay Rd. – Speed Limit Change From 35 mph to 30 mph

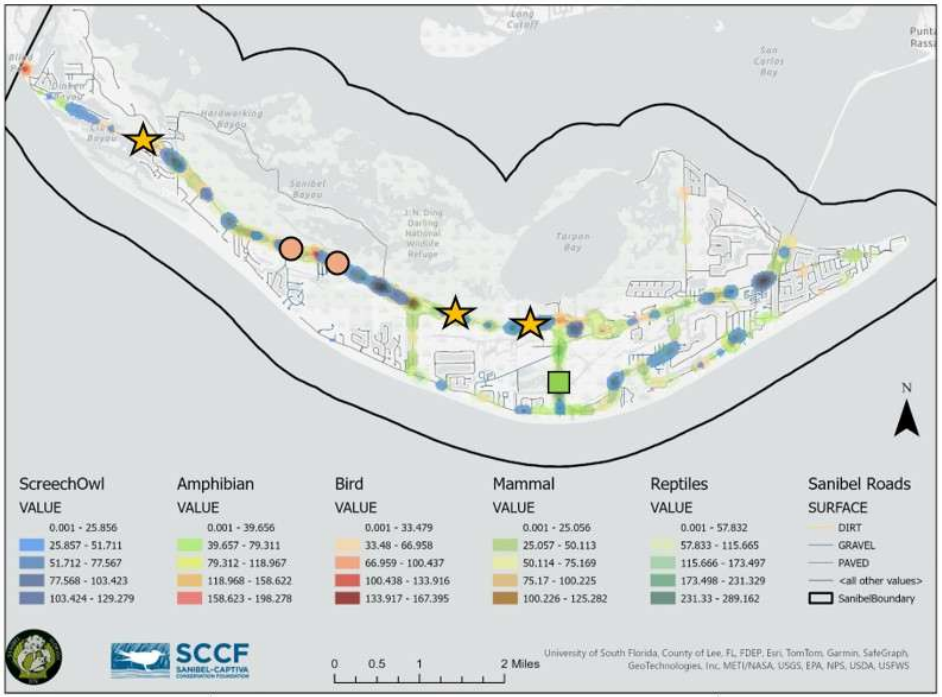



# Discussion 1

Does the City Council wish to reduce the speed limit on Rabbit Rd. between San-Cap Rd. and West Gulf Dr.?

- Current Speed Limit – 30 mph
- 85th Percentile – 34 mph






Large Wildlife Corridor Sign (Star) – 4x Total

Small Bobcat Sign (Circle) – 2x Total

Small Alligator Sign (Square) – 2x Total

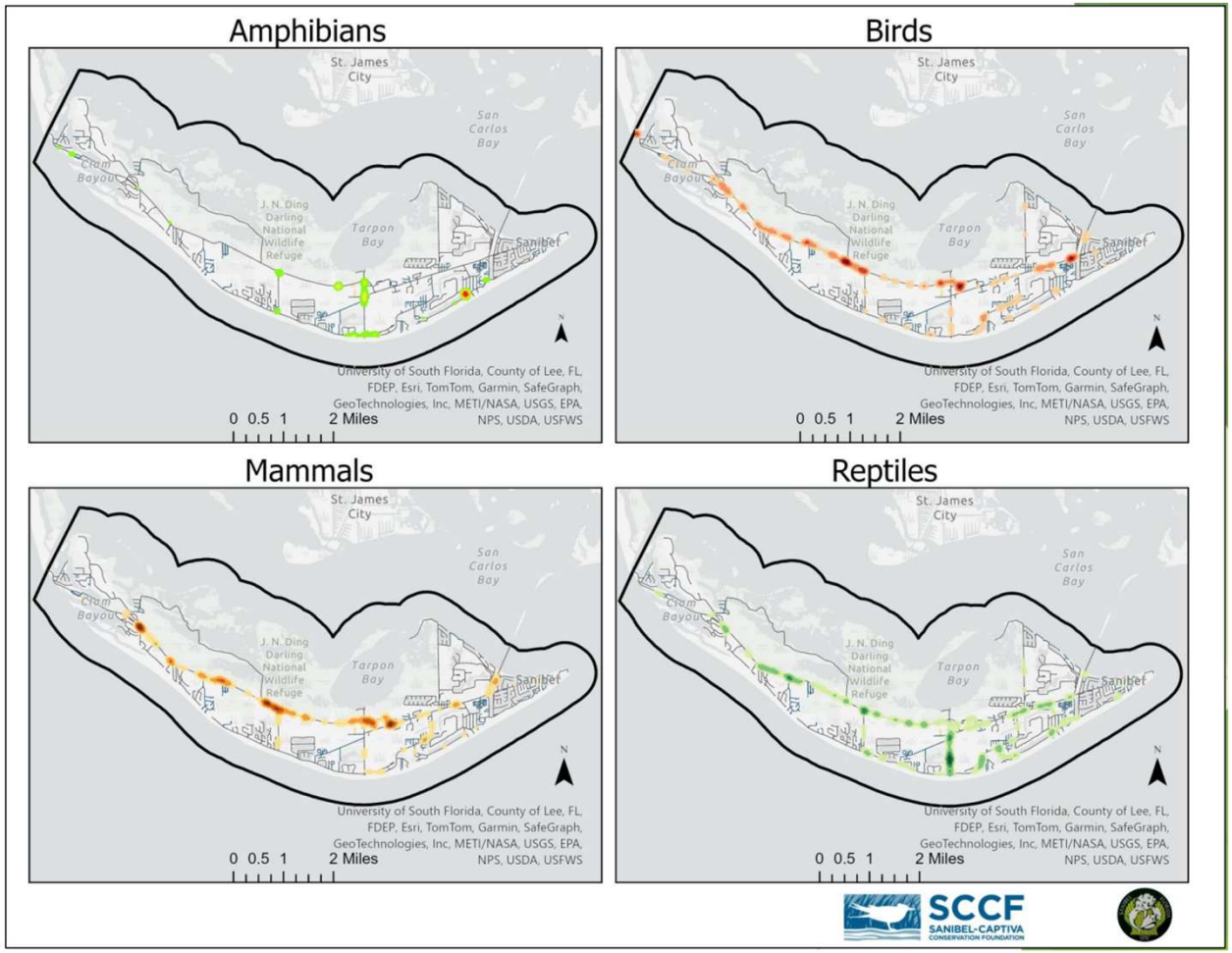


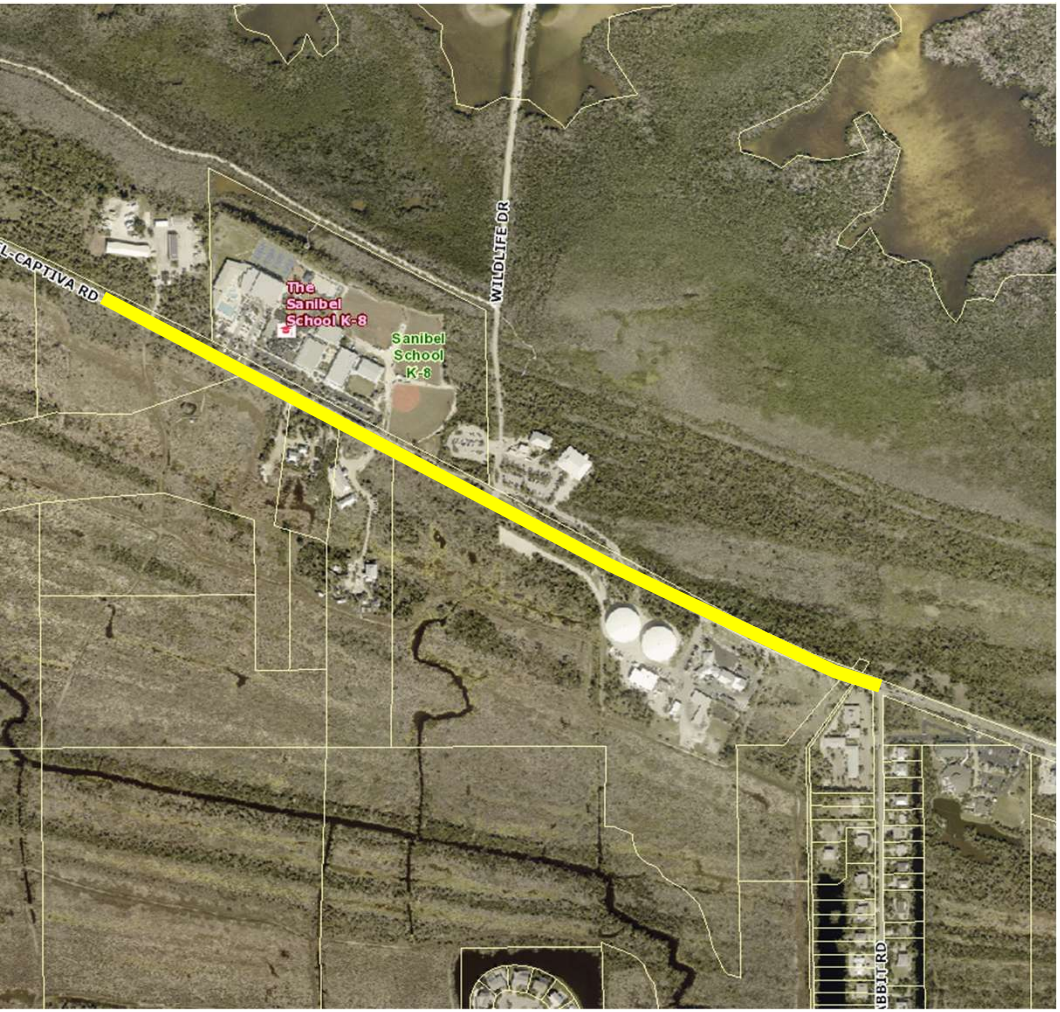










Amphibians
Birds
Mammals
Reptiles
St. James City
San Carlos Bay
Clam Bayou
J. N. Ding Darling National Wildlife Refuge
Tarpon Bay
Sanibel
N
University of South Florida, County of Lee, FL, FDEP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS
0 0.5 1 2 Miles
SCCF
SANIBEL-CAPTIVA CONSERVATION FOUNDATION

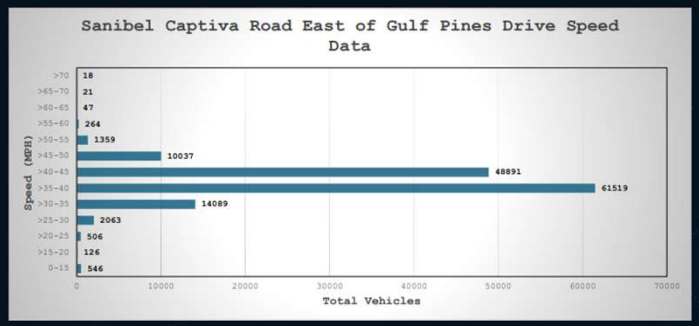



# Discussion 2

Does the City Council wish to reduce the speed limit on San-Cap Rd. between Rabbit Rd. and the western edge of the school speed zone?

- Current Speed Limit – 35 mph
- 85$^{th}$ Percentile – 42-43 mph

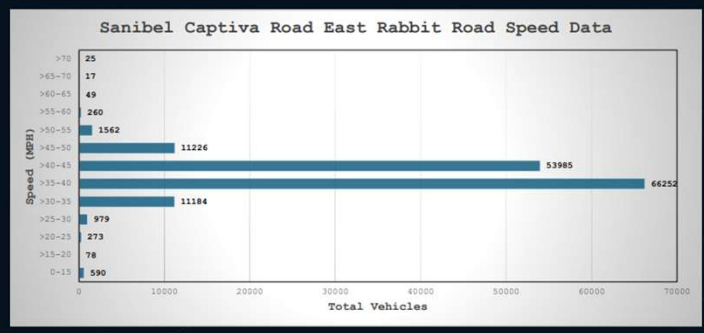
# Speed Results




85th Percentile: 42 mph
Speed Limit: 35 mph

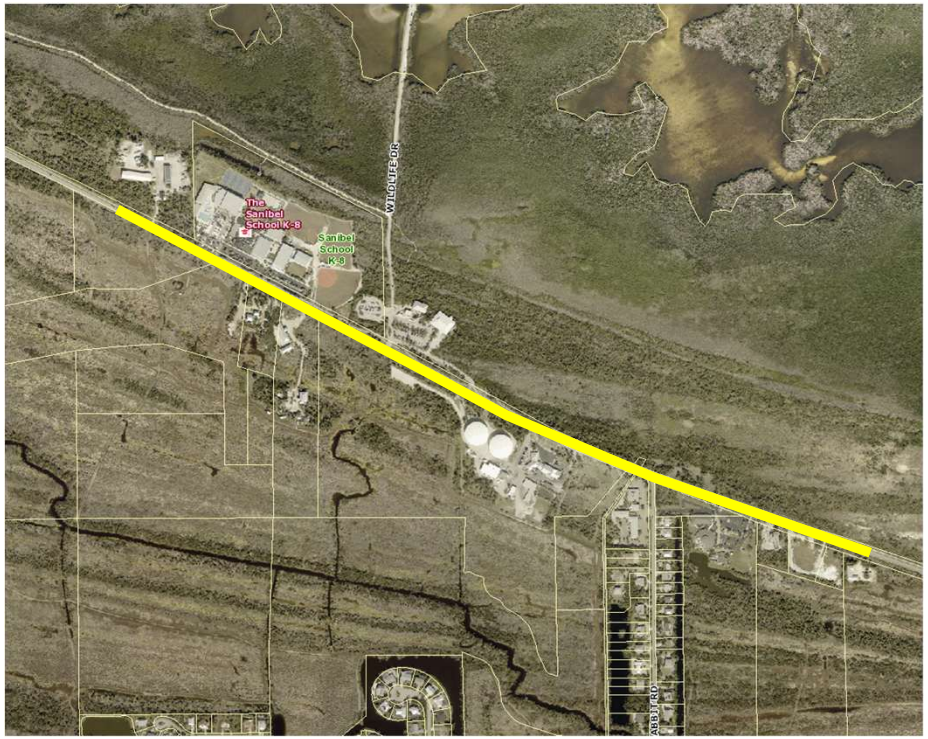
JOHNSON ENGINEERING — An Apex Company

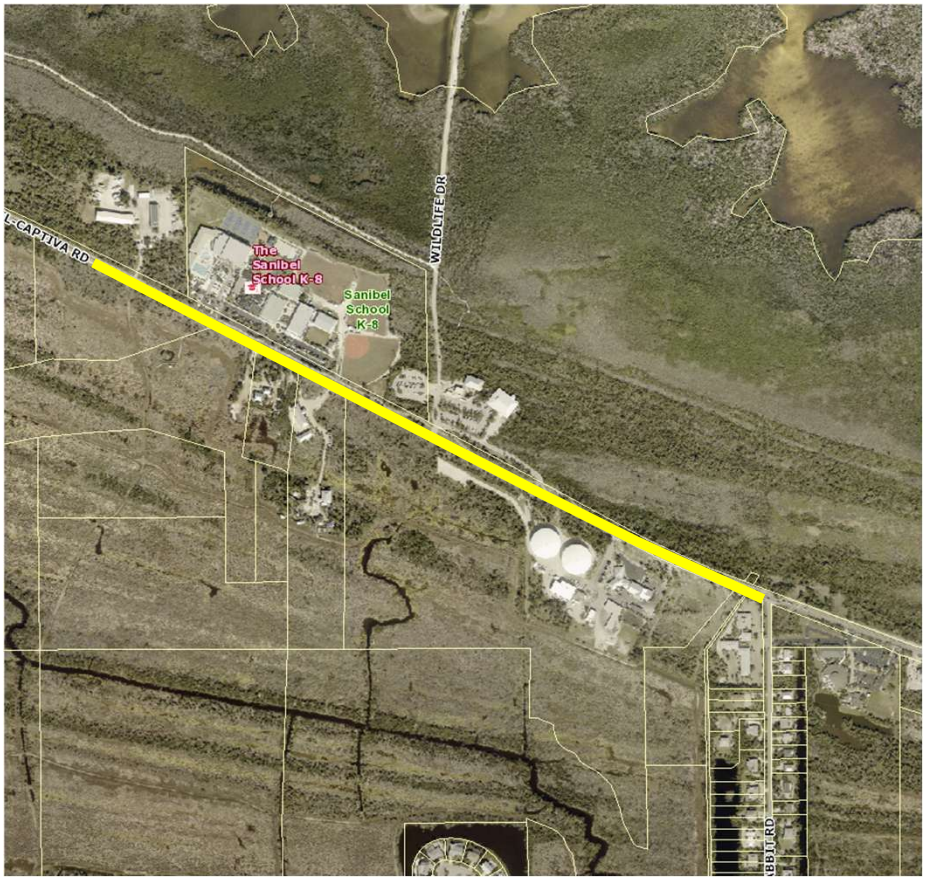
# Speed Results

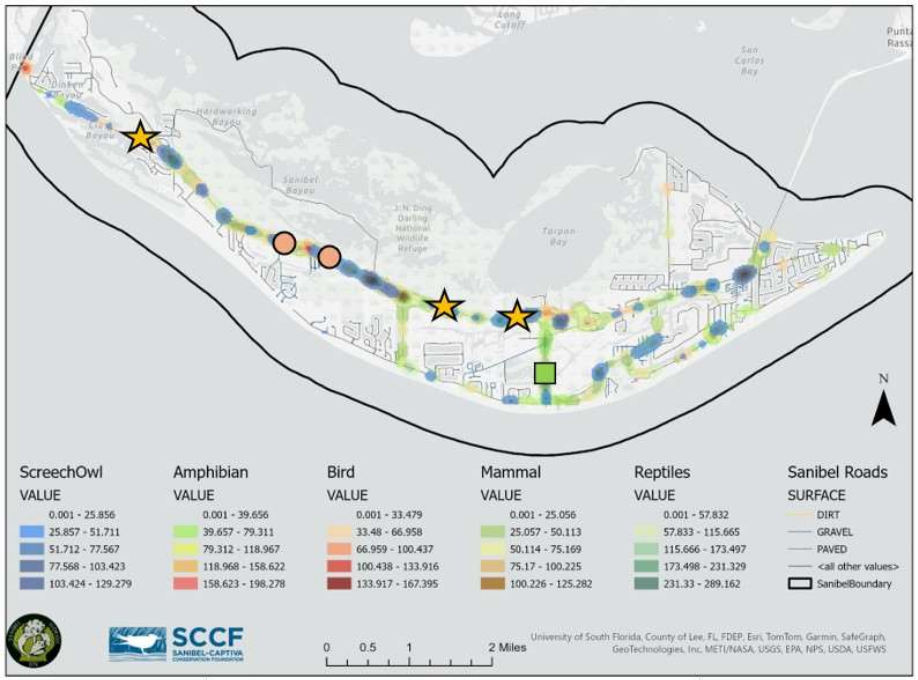



85th Percentile: 43 mph
Speed Limit: 35 mph

JOHNSON ENGINEERING — An Apex Company


WILDLIFE DR
The Sanibel School K-8
Sanibel School K-8
ABEL RD


L CAPTIVA RD
WILDLIFE DR
The Sanibel School K-8
Sanibel School K-8
ABEL RD




Large Wildlife Corridor Sign (Star) – 4x Total

Small Bobcat Sign (Circle) – 2x Total

Small Alligator Sign (Square) – 2x Total

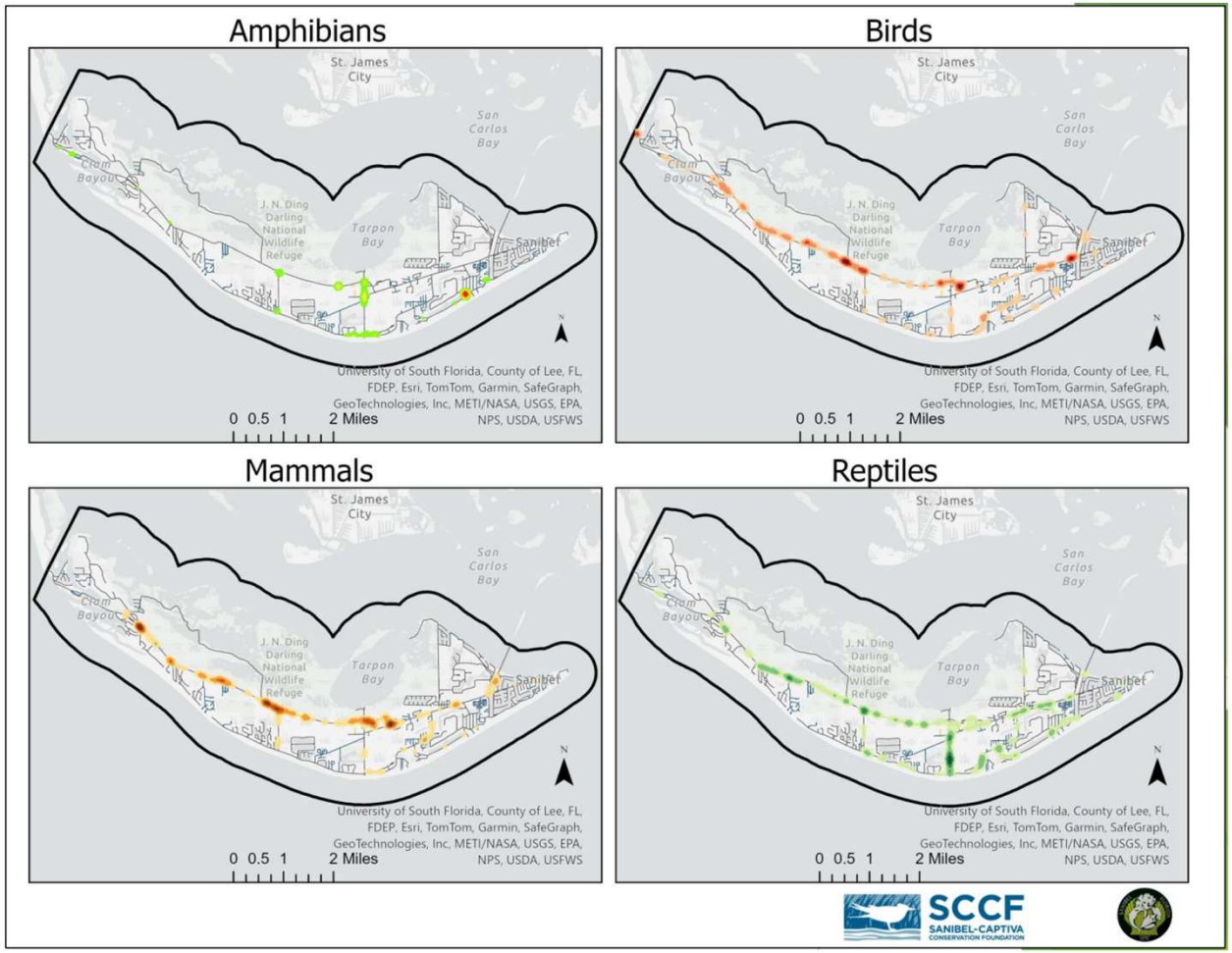












Amphibians
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N
University of South Florida, County of Lee, FL, FDEP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS
0 0.5 1 2 Miles
SCCF
SANIBEL-CAPTIVA CONSERVATION FOUNDATION

# THE CITY OF SANIBEL

# SPEED STUDY AND PASSING ZONE ANALYSIS

**MARCH 2026**

***Prepared for:***

**750 Dunlop Road**
**Sanibel, Florida 33957**

***Prepared by:***

**2122 Johnson Street**
**Fort Myers, Florida 33901**
**(239) 334-0046**
**EB 642**

Leah M. Holmes, P.E.
Florida License No. 85359

Date

25010306

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# 1.0 INTRODUCTION

The City of Sanibel has expressed concerns regarding the speeds on local roadways and the existing passing zone locations. Additionally, the City is looking into improvement options at the Rabbit Road and Sanibel Captiva Road intersection.

To evaluate existing traffic conditions within the City, Johnson Engineering conducted speed data collection and performed an analysis of the current passing zone configurations, as well as operational conditions at the Rabbit Road and Sanibel Captiva Road intersection.

## 1.1 Definitions

**Pace Speed** - 10 MPH range containing the largest number of vehicles within a given duration of time.

**85th Percentile Speed** - The speed at or below which 85% of motorists drive under free-flowing, favorable conditions. It is a key engineering metric used to set reasonable speed limits, as it represents the speed most drivers perceive as safe. Example: 125 cars were counted in the northbound direction. So 85 percent would be 106 (125 x 0.85 = 106). Thus, the 106th car (counting up from the bottom) represents the 85th percentile speed

**Average Speed** - Average speed at which traffic is traveling over a given period of time.

**Traffic Calming** - "Traffic calming" is a general term used to describe a variety of methods used to discourage excessive vehicular speeds. Such methods range from simple education, informational and enforcement campaigns to signage and pavement markings to physical improvements such as speed humps, raised intersections, traffic circles (roundabouts), etc. Traffic calming measures are often and most effectively implemented as a program including a series of sequential improvements and continued monitoring of the traffic conditions.

**ADT** - Average Daily Traffic

**Passing Zone** - A designated, safe section of a roadway, typically marked by a broken yellow line, where drivers may legally overtake slower vehicles. These zones are established based on engineering studies that ensure adequate sight distance, allowing drivers to see oncoming traffic and safely pass without creating hazards.

# 2.0 SPEED ANALYSIS

To assess existing speed conditions, data was obtained from the sources and methods listed herein. The locations of the traffic speed counts performed can be seen in **Figure 2-1**.

## 2.1 Traffic Data Collection

From November 19, 2025 to December 9, 2025, 24-hour bi-directional data collectors were placed at the following six (6) locations:

- Sanibel Captiva Road East of Pine Avenue
- Sanibel Captiva Road West of Buckthorn Lane
- Sanibel Captiva Road East of Gulf Pines Drive
- Sanibel Captiva Road East of Rabbit Road
- Periwinkle Way
- Rabbit Road

The primary purpose of these counts was to determine if there is a pattern of speeding at certain locations throughout the City. A summary of the collected data is provided in **Table 2-1** through **Table 2-6** and the full speed reports are available in **Appendix A**.

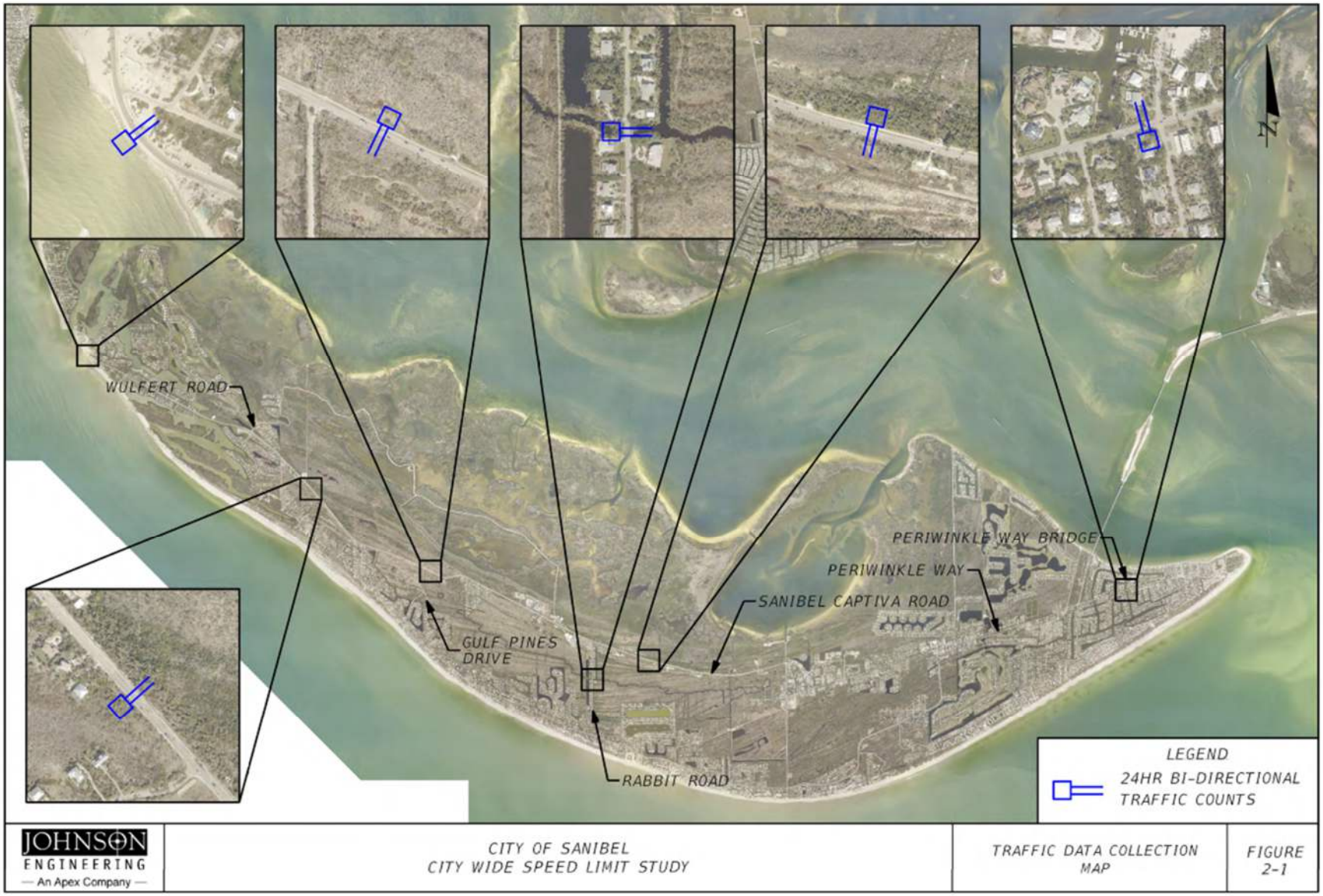



**Figure 2-1: Data Collection Map**

**Table 2-1: Traffic Data Summary for Sanibel Captiva Road East of Pine Avenue**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 4,391 | 33 | 37 | 31 - 40 | 65.0% |
| Thursday, November 20, 2025 | 4,496 | 35 | 37 | 31 - 40 | 77.0% |
| Friday, November 21, 2025 | 45,300 | 35 | 38 | 31 - 40 | 77.0% |
| Saturday, November 22, 2025 | 4,170 | 35 | 38 | 31 - 40 | 77.0% |
| Sunday, November 23, 2025 | 3,661 | 34 | 37 | 31 - 40 | 73.0% |
| Monday, November 24, 2025 | 4,749 | 34 | 37 | 31 - 40 | 76.0% |
| Tuesday, November 25, 2025 | 5,397 | 34 | 37 | 31 - 40 | 75.0% |
| Wednesday, November 26, 2025 | 4,896 | 35 | 38 | 31 - 40 | 75.0% |
| Thursday, November 27, 2025 | 2,997 | 34 | 37 | 31 - 40 | 72.0% |
| Friday, November 28, 2025 | 5,241 | 32 | 35 | 26 - 35 | 70.0% |
| Saturday, November 29, 2025 | 4,161 | 32 | 36 | 28 - 37 | 65.0% |
| Sunday, November 30, 2025 | 3,270 | 34 | 37 | 31 - 40 | 73.0% |
| Monday December 1, 2025 | 4,025 | 34 | 37 | 31 - 40 | 74.0% |
| Tuesday, December 2, 2025 | 4,263 | 35 | 37 | 31 - 40 | 77.0% |
| Wednesday, December 3, 2025 | 4,333 | 35 | 38 | 31 - 40 | 76.0% |
| Thursday, December 4, 2025 | 4,285 | 35 | 37 | 31 - 40 | 78.0% |
| Friday, December 5, 2025 | 4,606 | 35 | 37 | 31 - 40 | 77.0% |
| Saturday, December 6, 2025 | 4,403 | 34 | 37 | 31 - 40 | 75.0% |
| Sunday, December 7, 2025 | 2,967 | 35 | 38 | 31 - 40 | 75.0% |
| Monday, December 8, 2025 | 4,024 | 34 | 37 | 31 - 40 | 74.0% |
| Tuesday, December 9, 2025 | 4,421 | 34 | 37 | 31 - 40 | 73.0% |
| **Average** | **6,193** | **34** | **37** | **31 - 40** | **74.0%** |

**Table 2-2: Traffic Data Summary for Sanibel Captiva Road West of Buckthorn Lane**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 6,368 | 41 | 43 | 36 - 45 | 82.0% |
| Thursday, November 20, 2025 | 6,404 | 41 | 43 | 36 - 45 | 83.0% |
| Friday, November 21, 2025 | 6,288 | 41 | 43 | 36 - 45 | 83.0% |
| Saturday, November 22, 2025 | 5,863 | 42 | 44 | 36 - 45 | 81.0% |
| Sunday, November 23, 2025 | 5,205 | 42 | 44 | 36 - 45 | 81.0% |
| Monday, November 24, 2025 | 6,795 | 41 | 43 | 36 - 45 | 82.0% |
| Tuesday, November 25, 2025 | 7,499 | 41 | 43 | 36 - 45 | 81.0% |
| Wednesday, November 26, 2025 | 6,859 | 41 | 44 | 36 - 45 | 81.0% |
| Thursday, November 27, 2025 | 4,083 | 41 | 44 | 36 - 45 | 80.0% |
| Friday, November 28, 2025 | 6,712 | 41 | 43 | 36 - 45 | 82.0% |
| Saturday, November 29, 2025 | 5,937 | 41 | 44 | 36 - 45 | 79.0% |
| Sunday, November 30, 2025 | 4,681 | 42 | 44 | 36 - 45 | 81.0% |
| Monday December 1, 2025 | 5,789 | 41 | 43 | 36 - 45 | 83.0% |
| Tuesday, December 2, 2025 | 6,094 | 41 | 44 | 36 - 45 | 80.0% |
| Wednesday, December 3, 2025 | 6,274 | 41 | 44 | 36 - 45 | 81.0% |
| Thursday, December 4, 2025 | 6,131 | 41 | 43 | 36 - 45 | 81.0% |
| Friday, December 5, 2025 | 6,147 | 41 | 44 | 36 - 45 | 78.0% |
| **Average** | **6,066** | **41** | **44** | **36 - 45** | **81.1%** |

**Table 2-3: Traffic Data Summary for Sanibel Captiva Road East of Gulf Pines Drive**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 7,091 | 39 | 41 | 36 - 45 | 78.0% |
| Thursday, November 20, 2025 | 7,234 | 39 | 41 | 36 - 45 | 78.0% |
| Friday, November 21, 2025 | 7,077 | 39 | 41 | 36 - 45 | 79.0% |
| Saturday, November 22, 2025 | 6,414 | 40 | 43 | 36 - 45 | 79.0% |
| Sunday, November 23, 2025 | 5,587 | 41 | 43 | 36 - 45 | 80.0% |
| Monday, November 24, 2025 | 7,552 | 40 | 43 | 36 - 45 | 79.0% |
| Tuesday, November 25, 2025 | 8,310 | 40 | 43 | 36 - 45 | 80.0% |
| Wednesday, November 26, 2025 | 7,615 | 40 | 43 | 36 - 45 | 79.0% |
| Thursday, November 27, 2025 | 4,260 | 41 | 44 | 36 - 45 | 78.0% |
| Friday, November 28, 2025 | 7,169 | 40 | 43 | 36 - 45 | 80.0% |
| Saturday, November 29, 2025 | 6,386 | 41 | 43 | 36 - 45 | 80.0% |
| Sunday, November 30, 2025 | 5,053 | 41 | 43 | 36 - 45 | 80.0% |
| Monday December 1, 2025 | 6,545 | 40 | 42 | 36 - 45 | 81.0% |
| Tuesday, December 2, 2025 | 6,853 | 40 | 43 | 36 - 45 | 79.0% |
| Wednesday, December 3, 2025 | 7,104 | 40 | 42 | 36 - 45 | 79.0% |
| Thursday, December 4, 2025 | 6,947 | 40 | 42 | 36 - 45 | 80.0% |
| Friday, December 5, 2025 | 7,377 | 40 | 42 | 36 - 45 | 79.0% |
| Saturday, December 6, 2025 | 6,488 | 40 | 43 | 36 - 45 | 80.0% |
| Sunday, December 7, 2025 | 4,706 | 40 | 43 | 36 - 45 | 80.0% |
| Monday, December 8, 2025 | 6,631 | 39 | 42 | 36 - 45 | 77.0% |
| Tuesday, December 9, 2025 | 7,087 | 39 | 42 | 36 - 45 | 77.0% |
| **Average** | **6,642** | **40** | **42** | **36 - 45** | **79.1%** |

**Table 2-4: Traffic Data Summary for Sanibel Captiva Road East of Rabbit Road**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 8,377 | 40 | 42 | 36 - 45 | 83.0% |
| Thursday, November 20, 2025 | 8,207 | 40 | 42 | 36 - 45 | 84.0% |
| Friday, November 21, 2025 | 8,046 | 40 | 42 | 36 - 45 | 83.0% |
| Saturday, November 22, 2025 | 6,989 | 41 | 43 | 36 - 45 | 82.0% |
| Sunday, November 23, 2025 | 5,965 | 41 | 43 | 36 - 45 | 82.0% |
| Monday, November 24, 2025 | 8,273 | 40 | 42 | 36 - 45 | 83.0% |
| Tuesday, November 25, 2025 | 8,900 | 40 | 42 | 36 - 45 | 83.0% |
| Wednesday, November 26, 2025 | 8,151 | 40 | 43 | 36 - 45 | 82.0% |
| Thursday, November 27, 2025 | 4,358 | 41 | 44 | 36 - 45 | 80.0% |
| Friday, November 28, 2025 | 7,329 | 40 | 43 | 36 - 45 | 79.0% |
| Saturday, November 29, 2025 | 7,035 | 41 | 43 | 36 - 45 | 83.0% |
| Sunday, November 30, 2025 | 5,469 | 41 | 43 | 36 - 45 | 83.0% |
| Monday December 1, 2025 | 7,570 | 40 | 42 | 36 - 45 | 84.0% |
| Tuesday, December 2, 2025 | 7,840 | 40 | 42 | 36 - 45 | 84.0% |
| Wednesday, December 3, 2025 | 8,355 | 40 | 42 | 36 - 45 | 83.0% |
| Thursday, December 4, 2025 | 8,111 | 40 | 42 | 36 - 45 | 82.0% |
| Friday, December 5, 2025 | 8,420 | 40 | 43 | 36 - 45 | 82.0% |
| Saturday, December 6, 2025 | 6,992 | 41 | 43 | 36 - 45 | 80.0% |
| Sunday, December 7, 2025 | 5,098 | 41 | 44 | 36 - 45 | 80.0% |
| Monday, December 8, 2025 | 6,995 | 40 | 43 | 36 - 45 | 76.0% |
| **Average** | **7,324** | **40** | **43** | **36 - 45** | **81.9%** |

**Table 2-5: Traffic Data Summary for Periwinkle Way**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 3,252 | 30.7 | 35 | 27 - 36 | 60.0% |
| Thursday, November 20, 2025 | 3,356 | 30.7 | 35 | 29 - 38 | 58.0% |
| Friday, November 21, 2025 | 3,428 | 30.6 | 35 | 27 - 36 | 59.0% |
| **Average** | **3,345** | **30.7** | **35** | **28 - 37** | **59.0%** |

**Table 2-6: Traffic Data Summary for Rabbit Road**

| Date | ADT Bi-Directional | Daily Average Speed | Daily 85th Percentile Speed | 10-MPH Pace Speed | Percent in Pace |
|---|---|---|---|---|---|
| Wednesday, November 19, 2025 | 1,292 | 31 | 34 | 26 - 35 | 73.0% |
| Thursday, November 20, 2025 | 1,222 | 31 | 34 | 26 - 35 | 76.0% |
| Friday, November 21, 2025 | 1,268 | 31 | 34 | 26 - 35 | 73.0% |
| Saturday, November 22, 2025 | 1,064 | 31 | 34 | 26 - 35 | 72.0% |
| Sunday, November 23, 2025 | 902 | 31 | 34 | 26 - 35 | 73.0% |
| Monday, November 24, 2025 | 1,277 | 31 | 34 | 26 - 35 | 75.0% |
| Tuesday, November 25, 2025 | 1,355 | 31 | 34 | 26 - 35 | 75.0% |
| Wednesday, November 26, 2025 | 1,245 | 30 | 34 | 26 - 35 | 71.0% |
| Thursday, November 27, 2025 | 716 | 31 | 34 | 26 - 35 | 72.0% |
| Friday, November 28, 2025 | 996 | 31 | 35 | 26 - 35 | 72.0% |
| Saturday, November 29, 2025 | 1,105 | 31 | 34 | 26 - 35 | 74.0% |
| Sunday, November 30, 2025 | 841 | 31 | 34 | 26 - 35 | 72.0% |
| Monday December 1, 2025 | 1,199 | 32 | 35 | 26 - 35 | 73.0% |
| Tuesday, December 2, 2025 | 1,166 | 31 | 34 | 26 - 35 | 75.0% |
| Wednesday, December 3, 2025 | 1,244 | 31 | 34 | 26 - 35 | 75.0% |
| Thursday, December 4, 2025 | 1,287 | 31 | 34 | 26 - 35 | 77.0% |
| Friday, December 5, 2025 | 1,290 | 29 | 33 | 26 - 35 | 65.0% |
| Saturday, December 6, 2025 | 1,095 | 30 | 34 | 26 - 35 | 69.0% |
| Sunday, December 7, 2025 | 793 | 30 | 33 | 26 - 35 | 77.0% |
| Monday, December 8, 2025 | 1,155 | 31 | 33 | 26 - 35 | 79.0% |
| Tuesday, December 9, 2025 | 1,314 | 30 | 33 | 26 - 35 | 76.0% |
| **Average** | **1,135** | **31** | **34** | **26 - 35** | **73.5%** |

# 3.0 PASSING ZONES

Johnson Engineering worked with City staff to review existing passing zones and the merit of adjusting the 'No Passing' zones in areas along Sanibel Captiva Road and Periwinkle Way. In designated passing zones, driver behavior often becomes more assertive as motorists anticipate an opportunity to overtake slower vehicles. When drivers are delayed for extended periods behind slower-moving traffic, frustration can build, leading to riskier maneuvers such as abrupt lane changes, tailgating, or attempting passes with limited sight distance. This impatience can reduce overall roadway safety, particularly on two-lane facilities where safe passing opportunities are limited. Prolonged delay behind slow drivers may also increase speed variability once a passing zone begins, elevating the potential for conflicts and crashes.

Passing zones are established in accordance with the criteria set forth in the Manual on Uniform Traffic Control Devices (MUTCD), which requires that adequate passing sight distance be available to safely complete a passing maneuver. For a posted speed of 35 mph, the minimum recommended passing sight distance is approximately 550 feet. Where this unobstructed sight distance is available, centerline pavement markings may be designated as a passing zone; where it is not, a no-passing zone should be established using appropriate pavement markings and signage to prohibit passing movements and enhance roadway safety.

After review of the existing passing zones and discussions with City staff, the following changes are recommended:

- Addition of a continuous no passing zone along Periwinkle Way
- Addition of a continuous no passing zone along Rabbit Road
- Addition of no passing zones along Gulf Drive
- Addition of no passing along Sanibel Captiva Road, just west of Tarpon Bay Road
- Addition of no passing at the southern portion of Dixie Beach Boulevard
- Addition of no passing along Casa Ybel Road
- Addition of no passing along Donax Street

# 4.0 RABBIT ROAD

Modifications to the existing three-way intersection at Rabbit Road and Sanibel Captiva Road can include conversion to an all-way stop control, addition of dedicated turn lanes, or reconstruction as a roundabout, each with distinct operational and safety implications. Converting the intersection to a three-way stop can reduce certain crash types, particularly angle crashes, and improve gap acceptance for minor-street movements; however, it may increase delay on the major approach and is typically most effective only at balanced, lower-volume intersections. Adding a dedicated westbound left turn lane along Sanibel Captiva Road or a northbound left turn lane along Rabbit Road can improve capacity, reduce rear-end conflicts, and enhance overall traffic flow by separating turning and through movements, though this option often requires additional right-of-way and higher construction costs.

Alternatively, under a no-build alternative, the existing three-way intersection at Rabbit Road and Sanibel Captiva Road would remain in its current configuration with no geometric or traffic control modifications. This option would avoid construction costs, right-of-way acquisition, and temporary traffic disruptions associated with the other alternatives. However, existing operational characteristics and safety concerns would remain unchanged, and any future increases in traffic volumes could result in additional delay, reduced gap acceptance for minor-street movements, and a potential increase in crash frequency or severity over time.

An additional option that is not being recommended at this time is to consider constructing a roundabout. This can significantly reduce severe crashes, lower vehicle speeds, and provide continuous flow with reduced delay compared to stop control; however, it involves higher upfront costs, greater design complexity, potential right-of-way impacts, and may require public education during implementation. As discussed with roundabouts in other areas of Sanibel, changes of this magnitude would likely require a public referendum. The preferred alternative should be based on traffic volumes, crash history, right-of-way availability, and long-term operational needs.

# 5.0 PUBLIC INVOLVEMENT

In an effort to solicit input from the City, a Presentation was held at the January 13, 2025 City Council Meeting. The purpose of this meeting was to present the preliminary findings of the analysis and gather feedback from the Council. Preliminary findings were presented as a series of charts and exhibits. These exhibits graphically portrayed the speeds of vehicles and exhibits of the existing passing zones.



# 6.0 RECOMMENDATIONS

Taking into consideration the safety of the traveling public, impacts to wildlife, and concerns of the public and staff, the following recommendations are being made to address the speeding and passing zone concerns. Per Florida Statute 316.189(1): ***"****The maximum speed within any municipality is 30 miles per hour. With respect to residence districts, a municipality may set a maximum speed limit of 20 or 25 miles per hour on local streets and highways after an investigation determines that such a limit is reasonable…... A municipality may set speed zones altering the speed limit, both as to maximum, not to exceed 60 miles per hour, and minimum, after investigation determines such a change is reasonable and in conformity to criteria promulgated by the Department of Transportation, except that no changes shall be made on state highways or connecting links or extensions thereof, which shall be changed only by the Department of Transportation."*

Speed change recommendations include the following:

- Sanibel Captiva Road East of Pine Avenue - No Change
- Sanibel Captiva Road West of Buckthorn Lane - No Change
- Sanibel Captiva Road East of Gulf Pines Drive - No Change
- Sanibel Captiva Road East of Rabbit Road - No Change
- Periwinkle Way - Lower East Periwinkle Way from Causeway Boulevard to the Lighthouse to 25 mph
- Rabbit Road - No Change

The City may reduce posted speed limits where warranted to enhance public safety and address documented concerns from residents. In areas with increased pedestrian activity, wildlife strikes, residential density, or a history of speed-related incidents, lowering speed limits is a proactive measure to reduce crash risk and severity. Additionally, in corridors with frequent wildlife crossings, reduced speeds can help minimize vehicle–animal conflicts and improve overall roadway safety for both motorists and the surrounding environment.

## 6.1 Speed Analysis - Signage

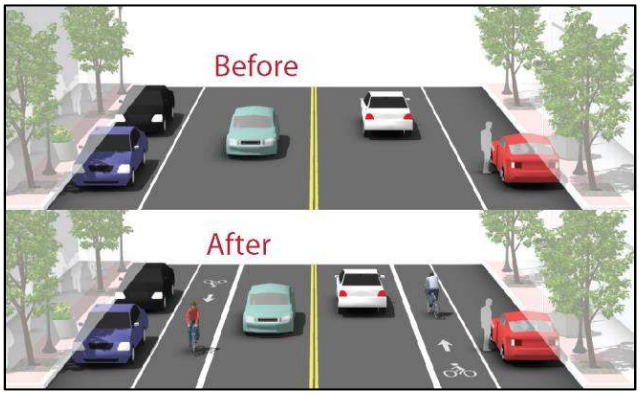
In general, the roadways are currently operating at or near the 85th percentile of the roadway. One option in-lieu of lowering speed limits is the consideration of adding additional speed limit signs where there are gaps in the existing signage, see **Figure 6-1**. These are areas of generally straight roadway, where drivers can have a tendency to increase speeds.



**Figure 6-1: Additional Speed Signage Location Options**

## 6.2 Speed Analysis -Traffic Calming

If the addition of signage does not sufficiently address the speeding issues, the City may wish to institute physical traffic calming measures to enhance speed control. One option is to consider the narrowing of travel lanes in specific areas of concern. The narrowing of traffic lanes creates a psychological effect on drivers which makes them feel less comfortable driving at higher speeds, which reduces excessive speeds. This method is relatively inexpensive and involves adjusting the existing outside striping inwards 1-2 feet depending on the existing travel widths and can be done during resurfacing projects.




An additional option is the addition of rumble strips. Rumble strips across travel lanes can be utilized near key intersection and driveway approaches to alert the driver to slow down and be aware of potential traffic entering the roadway. While in-lane rumble strips can improve safety by alerting inattentive drivers, they often generate increased tire–pavement noise, particularly when traversed by heavy vehicles. This additional noise can result in complaints from nearby residents and may be a concern in residential or noise-sensitive areas. The City has implemented rumbled strips in the past for both thermoplastic and asphalt options. Both installations were removed due to issues with noise.



## 6.3 Passing Zones

To address the safety concerns on the existing passing zones, the following recommended improvements include the following:

- Addition of a continuous no passing zone along Periwinkle Way
- Addition of a continuous no passing zone along Rabbit Road
- Addition of no passing zones along Gulf Drive
- Addition of no passing along Sanibel Captiva Road, just west of Tarpon Bay Road
- Addition of no passing at the southern portion of Dixie Beach Boulevard
- Addition of no passing along Casa Ybel Road
- Addition of no passing along Donax Street

The existing and proposed passing zones are shown in **Figure 6-2** and **Figure 6-3**.

As an additional safety enhancement, centerline rumble strips may be installed within no-passing zones to provide tactile and audible warnings to drivers who unintentionally drift across the centerline into opposing traffic.

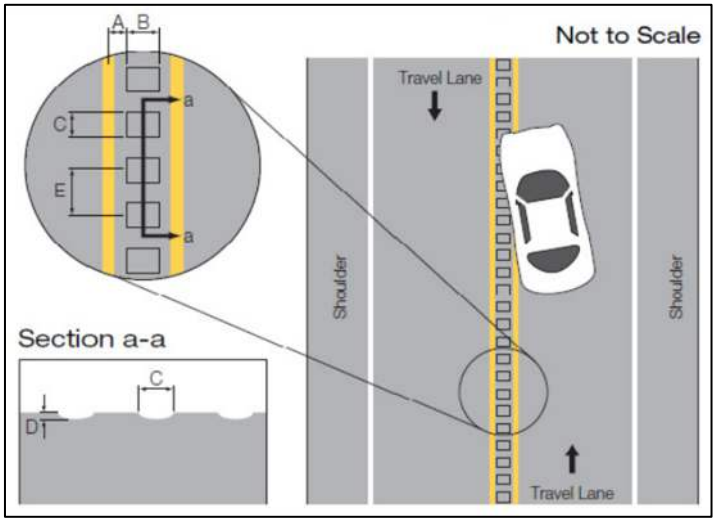





**Figure 6-2: Existing Passing Zones**




**Figure 6-3: Proposed Passing Zones**

## 6.4 Rabbit Road

The following options are for the City's consideration for the improvements at Rabbit Road and Sanibel Captiva Road:

- **No Build (Maintain Existing Intersection Layout)**
  - Maintain existing flow patterns
  - Zero cost
  - No construction disruption
  - No right of way acquisitions
- **Conversion to All-Way Stop Control**
  - May reduce certain crash types, particularly angle collisions.
  - Improves gap acceptance for minor-street approaches.
  - Most appropriate for balanced, lower-volume intersections.
  - May increase delay for the major roadway and reduce overall operational efficiency.
- **Addition of Dedicated Turn Lanes**
  - Enhances capacity and overall traffic operations by separating turning and through movements.
  - Reduces rear-end conflicts and improves intersection functionality.
  - May require additional right-of-way and associated construction costs.

The preferred alternative should be selected based on traffic volumes, documented crash history, right-of-way constraints, and long-term operational objectives. Further evaluation of the Rabbit Road intersection would be necessary prior to implementing any modifications in order to comprehensively assess the associated benefits, operational impacts, and potential trade-offs.

# APPENDIX A

# TRAFFIC MACHINE SPEED DATA

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 8 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 28 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 51 |
| 7:00 | 2 | 0 | 0 | 0 | 13 | 85 | 63 | 12 | 0 | 0 | 0 | 0 | 0 | 175 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 93 | 66 | 4 | 1 | 0 | 0 | 0 | 0 | 169 |
| 9:00 | 0 | 0 | 0 | 0 | 32 | 120 | 57 | 11 | 0 | 0 | 0 | 0 | 0 | 220 |
| 10:00 | 8 | 0 | 0 | 1 | 32 | 130 | 75 | 13 | 0 | 0 | 0 | 0 | 0 | 259 |
| 11:00 | 1 | 0 | 0 | 0 | 43 | 210 | 79 | 10 | 2 | 0 | 0 | 0 | 0 | 345 |
| 12:00 PM | 4 | 0 | 0 | 5 | 34 | 158 | 92 | 15 | 0 | 0 | 0 | 0 | 0 | 308 |
| 1:00 | 0 | 0 | 0 | 2 | 82 | 218 | 88 | 18 | 1 | 0 | 0 | 0 | 0 | 409 |
| 2:00 | 1 | 0 | 0 | 0 | 55 | 287 | 93 | 5 | 1 | 1 | 0 | 0 | 0 | 443 |
| 3:00 | 0 | 0 | 1 | 11 | 86 | 263 | 79 | 4 | 0 | 0 | 0 | 0 | 0 | 444 |
| 4:00 | 1 | 0 | 0 | 5 | 58 | 226 | 81 | 9 | 0 | 0 | 0 | 0 | 0 | 380 |
| 5:00 | 0 | 0 | 0 | 0 | 65 | 182 | 78 | 2 | 1 | 1 | 0 | 0 | 0 | 329 |
| 6:00 | 0 | 0 | 0 | 4 | 34 | 108 | 68 | 11 | 1 | 0 | 0 | 0 | 0 | 226 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 29 | 35 | 8 | 1 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 39 | 48 | 26 | 2 | 0 | 0 | 0 | 0 | 119 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 43 | 45 | 3 | 1 | 0 | 0 | 0 | 0 | 93 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 35 | 23 | 11 | 2 | 0 | 0 | 0 | 0 | 75 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 12 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total | 17 | 0 | 1 | 28 | 561 | 2278 | 1110 | 173 | 14 | 2 | 0 | 0 | 0 | 4184 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 24 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 38 |
| 7:00 | 0 | 0 | 0 | 0 | 23 | 81 | 57 | 16 | 0 | 0 | 1 | 0 | 0 | 178 |
| 8:00 | 0 | 0 | 0 | 0 | 8 | 83 | 75 | 15 | 0 | 1 | 0 | 1 | 0 | 183 |
| 9:00 | 0 | 0 | 0 | 0 | 23 | 115 | 82 | 6 | 0 | 0 | 0 | 0 | 0 | 226 |
| 10:00 | 3 | 0 | 0 | 1 | 27 | 179 | 84 | 9 | 1 | 0 | 0 | 0 | 0 | 304 |
| 11:00 | 3 | 0 | 3 | 5 | 38 | 182 | 91 | 13 | 3 | 0 | 0 | 0 | 0 | 338 |
| 12:00 PM | 0 | 0 | 0 | 1 | 25 | 211 | 110 | 10 | 1 | 0 | 0 | 0 | 0 | 358 |
| 1:00 | 4 | 0 | 0 | 2 | 51 | 151 | 90 | 10 | 1 | 0 | 0 | 0 | 0 | 309 |
| 2:00 | 2 | 1 | 2 | 5 | 109 | 250 | 67 | 7 | 0 | 0 | 0 | 0 | 0 | 443 |
| 3:00 | 0 | 0 | 0 | 3 | 62 | 267 | 83 | 5 | 1 | 0 | 0 | 0 | 0 | 421 |
| 4:00 | 0 | 3 | 0 | 0 | 71 | 230 | 61 | 5 | 3 | 0 | 0 | 0 | 0 | 373 |
| 5:00 | 1 | 0 | 0 | 0 | 68 | 171 | 73 | 13 | 0 | 0 | 0 | 0 | 0 | 326 |
| 6:00 | 0 | 0 | 0 | 6 | 32 | 131 | 54 | 8 | 1 | 1 | 0 | 0 | 0 | 233 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 38 | 44 | 4 | 1 | 0 | 0 | 0 | 0 | 90 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 30 | 16 | 5 | 3 | 0 | 0 | 0 | 0 | 58 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 41 | 30 | 13 | 2 | 0 | 0 | 0 | 0 | 92 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 21 | 17 | 7 | 0 | 0 | 0 | 0 | 0 | 48 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 13 | 4 | 5 | 23 | 558 | 2226 | 1058 | 160 | 18 | 2 | 1 | 1 | 0 | 4069 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 6 | 4 | 5 | 0 | 1 | 0 | 0 | 0 | 19 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 23 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 7:00 | 0 | 0 | 0 | 1 | 9 | 66 | 58 | 5 | 1 | 0 | 0 | 0 | 0 | 140 |
| 8:00 | 0 | 0 | 0 | 0 | 9 | 85 | 70 | 14 | 1 | 0 | 0 | 0 | 0 | 179 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 127 | 77 | 4 | 0 | 0 | 0 | 0 | 0 | 217 |
| 10:00 | 0 | 0 | 0 | 0 | 27 | 139 | 84 | 9 | 0 | 0 | 0 | 0 | 0 | 259 |
| 11:00 | 0 | 0 | 5 | 4 | 55 | 189 | 88 | 4 | 0 | 0 | 0 | 0 | 0 | 345 |
| 12:00 PM | 1 | 0 | 0 | 1 | 38 | 227 | 96 | 8 | 0 | 0 | 0 | 0 | 0 | 371 |
| 1:00 | 1 | 0 | 0 | 4 | 42 | 206 | 70 | 3 | 0 | 0 | 0 | 0 | 0 | 326 |
| 2:00 | 2 | 0 | 0 | 1 | 62 | 267 | 81 | 11 | 0 | 0 | 0 | 0 | 0 | 424 |
| 3:00 | 0 | 0 | 7 | 16 | 102 | 248 | 53 | 11 | 0 | 0 | 1 | 0 | 0 | 438 |
| 4:00 | 0 | 0 | 0 | 11 | 36 | 166 | 92 | 11 | 1 | 0 | 0 | 0 | 0 | 317 |
| 5:00 | 2 | 0 | 0 | 1 | 37 | 192 | 77 | 5 | 0 | 0 | 0 | 0 | 0 | 314 |
| 6:00 | 0 | 0 | 0 | 0 | 16 | 104 | 88 | 12 | 3 | 0 | 0 | 0 | 0 | 223 |
| 7:00 | 0 | 0 | 0 | 0 | 11 | 40 | 50 | 4 | 1 | 0 | 0 | 0 | 0 | 106 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 17 | 25 | 8 | 7 | 0 | 0 | 0 | 0 | 61 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 54 | 22 | 4 | 1 | 0 | 0 | 0 | 0 | 90 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 32 | 15 | 5 | 3 | 0 | 0 | 0 | 0 | 60 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 9 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 6 | 0 | 12 | 39 | 481 | 2200 | 1085 | 127 | 20 | 1 | 1 | 0 | 0 | 3972 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 5 | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 19 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 17 | 11 | 2 | 0 | 0 | 1 | 0 | 0 | 31 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 44 | 22 | 9 | 0 | 0 | 0 | 0 | 0 | 77 |
| 8:00 | 1 | 0 | 0 | 0 | 4 | 61 | 50 | 10 | 0 | 0 | 0 | 0 | 0 | 126 |
| 9:00 | 2 | 0 | 0 | 0 | 16 | 93 | 79 | 10 | 0 | 0 | 0 | 0 | 0 | 200 |
| 10:00 | 0 | 0 | 0 | 0 | 35 | 155 | 54 | 8 | 1 | 1 | 0 | 0 | 0 | 254 |
| 11:00 | 2 | 0 | 1 | 0 | 26 | 156 | 84 | 17 | 2 | 1 | 0 | 0 | 0 | 289 |
| 12:00 PM | 0 | 0 | 0 | 0 | 22 | 132 | 90 | 13 | 0 | 0 | 0 | 0 | 0 | 257 |
| 1:00 | 2 | 0 | 0 | 0 | 27 | 144 | 69 | 11 | 0 | 0 | 0 | 0 | 0 | 253 |
| 2:00 | 1 | 1 | 0 | 1 | 31 | 186 | 89 | 17 | 2 | 0 | 0 | 0 | 0 | 328 |
| 3:00 | 0 | 0 | 0 | 2 | 39 | 162 | 96 | 19 | 1 | 2 | 0 | 0 | 0 | 321 |
| 4:00 | 1 | 0 | 3 | 1 | 23 | 139 | 90 | 10 | 4 | 0 | 0 | 0 | 0 | 271 |
| 5:00 | 1 | 0 | 0 | 0 | 6 | 182 | 106 | 14 | 1 | 0 | 1 | 0 | 0 | 311 |
| 6:00 | 0 | 0 | 0 | 12 | 18 | 115 | 66 | 7 | 2 | 0 | 0 | 0 | 0 | 220 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 51 | 55 | 6 | 1 | 0 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 42 | 46 | 3 | 2 | 0 | 0 | 0 | 0 | 95 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 54 | 21 | 8 | 0 | 0 | 0 | 0 | 0 | 90 |
| 10:00 | 0 | 0 | 0 | 0 | 8 | 33 | 24 | 5 | 0 | 0 | 0 | 0 | 0 | 70 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 17 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 33 |
| Total | 10 | 1 | 4 | 16 | 270 | 1798 | 1089 | 178 | 21 | 5 | 2 | 0 | 0 | 3394 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 4 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 12 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 0 | 1 | 0 | 1 | 30 | 18 | 3 | 1 | 0 | 0 | 0 | 0 | 54 |
| 8:00 | 0 | 0 | 6 | 0 | 6 | 41 | 68 | 13 | 1 | 0 | 0 | 0 | 0 | 135 |
| 9:00 | 0 | 0 | 1 | 1 | 11 | 117 | 81 | 14 | 2 | 1 | 0 | 0 | 0 | 228 |
| 10:00 | 2 | 0 | 0 | 0 | 16 | 145 | 93 | 15 | 1 | 1 | 0 | 0 | 0 | 273 |
| 11:00 | 2 | 0 | 5 | 0 | 24 | 134 | 84 | 9 | 1 | 0 | 0 | 0 | 0 | 259 |
| 12:00 PM | 0 | 0 | 0 | 2 | 25 | 149 | 49 | 6 | 0 | 0 | 0 | 0 | 0 | 231 |
| 1:00 | 2 | 0 | 0 | 0 | 23 | 114 | 65 | 15 | 2 | 0 | 0 | 0 | 0 | 221 |
| 2:00 | 0 | 0 | 0 | 1 | 15 | 139 | 71 | 11 | 1 | 0 | 0 | 0 | 0 | 238 |
| 3:00 | 0 | 0 | 0 | 1 | 20 | 109 | 93 | 19 | 3 | 0 | 1 | 0 | 0 | 246 |
| 4:00 | 0 | 0 | 0 | 2 | 35 | 138 | 63 | 5 | 4 | 0 | 0 | 0 | 0 | 247 |
| 5:00 | 0 | 0 | 1 | 1 | 24 | 140 | 56 | 9 | 2 | 0 | 0 | 0 | 0 | 233 |
| 6:00 | 0 | 0 | 0 | 5 | 46 | 97 | 58 | 8 | 2 | 0 | 0 | 0 | 0 | 216 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 37 | 32 | 12 | 1 | 0 | 0 | 0 | 0 | 87 |
| 8:00 | 0 | 0 | 0 | 0 | 8 | 31 | 29 | 2 | 1 | 0 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 43 | 30 | 3 | 0 | 0 | 0 | 0 | 0 | 80 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 31 | 22 | 2 | 2 | 0 | 0 | 0 | 0 | 64 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 6 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 6 | 0 | 14 | 13 | 277 | 1529 | 947 | 157 | 27 | 3 | 1 | 0 | 0 | 2974 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 8 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 24 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 50 | 42 | 8 | 2 | 0 | 0 | 0 | 0 | 104 |
| 8:00 | 0 | 0 | 0 | 0 | 19 | 110 | 50 | 10 | 0 | 0 | 0 | 0 | 0 | 189 |
| 9:00 | 1 | 0 | 1 | 2 | 28 | 117 | 94 | 9 | 1 | 0 | 0 | 0 | 0 | 253 |
| 10:00 | 1 | 0 | 0 | 5 | 28 | 196 | 66 | 4 | 1 | 0 | 0 | 0 | 0 | 301 |
| 11:00 | 0 | 0 | 0 | 5 | 52 | 211 | 95 | 7 | 0 | 1 | 0 | 0 | 0 | 371 |
| 12:00 PM | 2 | 0 | 0 | 11 | 49 | 167 | 101 | 9 | 2 | 1 | 0 | 0 | 0 | 342 |
| 1:00 | 3 | 0 | 5 | 3 | 36 | 178 | 103 | 18 | 6 | 0 | 0 | 0 | 0 | 352 |
| 2:00 | 3 | 0 | 1 | 6 | 40 | 233 | 71 | 11 | 0 | 0 | 0 | 0 | 0 | 365 |
| 3:00 | 2 | 0 | 0 | 0 | 61 | 278 | 92 | 4 | 0 | 0 | 0 | 0 | 0 | 437 |
| 4:00 | 2 | 0 | 2 | 4 | 31 | 217 | 113 | 10 | 1 | 2 | 0 | 0 | 0 | 382 |
| 5:00 | 2 | 0 | 0 | 2 | 48 | 185 | 80 | 11 | 1 | 0 | 0 | 0 | 0 | 329 |
| 6:00 | 0 | 0 | 0 | 3 | 44 | 154 | 54 | 17 | 0 | 0 | 0 | 0 | 0 | 272 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 42 | 56 | 14 | 3 | 0 | 0 | 0 | 0 | 124 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 39 | 29 | 9 | 2 | 0 | 1 | 0 | 0 | 85 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 37 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 59 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 33 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 68 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 12 | 16 | 3 | 0 | 1 | 0 | 1 | 0 | 33 |
| Total | 16 | 0 | 9 | 41 | 468 | 2275 | 1127 | 162 | 20 | 6 | 1 | 1 | 0 | 4126 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 4 | 4 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 19 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 18 | 11 | 0 | 2 | 0 | 0 | 0 | 0 | 32 |
| 7:00 | 0 | 0 | 0 | 1 | 7 | 46 | 46 | 14 | 1 | 0 | 0 | 0 | 0 | 115 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 94 | 63 | 11 | 2 | 1 | 0 | 0 | 0 | 177 |
| 9:00 | 3 | 0 | 0 | 0 | 12 | 148 | 74 | 10 | 1 | 0 | 0 | 0 | 0 | 248 |
| 10:00 | 2 | 0 | 0 | 0 | 65 | 169 | 87 | 8 | 1 | 0 | 0 | 0 | 0 | 332 |
| 11:00 | 3 | 0 | 2 | 3 | 31 | 226 | 95 | 8 | 1 | 1 | 0 | 1 | 0 | 371 |
| 12:00 PM | 6 | 0 | 0 | 2 | 46 | 225 | 111 | 11 | 1 | 0 | 0 | 0 | 0 | 402 |
| 1:00 | 1 | 0 | 1 | 9 | 88 | 219 | 88 | 2 | 1 | 0 | 0 | 0 | 0 | 409 |
| 2:00 | 1 | 0 | 0 | 0 | 57 | 255 | 97 | 5 | 0 | 0 | 0 | 0 | 0 | 415 |
| 3:00 | 2 | 2 | 1 | 0 | 64 | 290 | 106 | 8 | 2 | 0 | 0 | 0 | 0 | 475 |
| 4:00 | 3 | 0 | 0 | 0 | 94 | 205 | 73 | 7 | 0 | 0 | 0 | 0 | 0 | 382 |
| 5:00 | 1 | 0 | 0 | 6 | 48 | 174 | 88 | 6 | 0 | 0 | 0 | 0 | 0 | 323 |
| 6:00 | 0 | 0 | 0 | 8 | 41 | 144 | 81 | 13 | 1 | 0 | 0 | 0 | 0 | 288 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 67 | 50 | 12 | 1 | 0 | 0 | 0 | 0 | 134 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 19 | 38 | 13 | 1 | 1 | 0 | 0 | 0 | 76 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 31 | 27 | 12 | 2 | 0 | 0 | 0 | 0 | 78 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 46 | 24 | 2 | 3 | 0 | 0 | 0 | 0 | 77 |
| 11:00 | 0 | 0 | 1 | 4 | 8 | 10 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 34 |
| Total | 22 | 2 | 5 | 34 | 590 | 2396 | 1186 | 156 | 22 | 3 | 0 | 1 | 0 | 4417 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 13 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 6 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 0 | 0 | 0 | 1 | 5 | 34 | 44 | 9 | 0 | 0 | 0 | 0 | 0 | 93 |
| 8:00 | 5 | 0 | 0 | 0 | 6 | 100 | 62 | 16 | 1 | 0 | 0 | 0 | 0 | 190 |
| 9:00 | 2 | 0 | 0 | 2 | 22 | 117 | 88 | 12 | 1 | 0 | 0 | 0 | 0 | 244 |
| 10:00 | 2 | 0 | 0 | 1 | 37 | 164 | 69 | 15 | 0 | 0 | 1 | 0 | 0 | 289 |
| 11:00 | 2 | 0 | 0 | 0 | 41 | 200 | 76 | 5 | 0 | 0 | 0 | 0 | 0 | 324 |
| 12:00 PM | 0 | 0 | 2 | 2 | 50 | 200 | 88 | 14 | 0 | 0 | 0 | 0 | 0 | 356 |
| 1:00 | 0 | 0 | 0 | 1 | 27 | 194 | 110 | 21 | 3 | 0 | 0 | 0 | 0 | 356 |
| 2:00 | 0 | 0 | 0 | 0 | 37 | 180 | 138 | 12 | 0 | 0 | 0 | 0 | 0 | 367 |
| 3:00 | 2 | 0 | 4 | 31 | 74 | 193 | 101 | 18 | 2 | 1 | 0 | 0 | 0 | 426 |
| 4:00 | 5 | 0 | 0 | 1 | 37 | 175 | 114 | 19 | 3 | 2 | 0 | 0 | 0 | 356 |
| 5:00 | 0 | 0 | 0 | 0 | 42 | 169 | 87 | 13 | 4 | 0 | 1 | 0 | 0 | 316 |
| 6:00 | 0 | 0 | 2 | 5 | 23 | 121 | 79 | 10 | 0 | 0 | 0 | 0 | 0 | 240 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 55 | 38 | 15 | 4 | 1 | 0 | 0 | 0 | 113 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 33 | 29 | 8 | 2 | 0 | 0 | 0 | 0 | 75 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 49 | 31 | 5 | 1 | 0 | 2 | 0 | 0 | 91 |
| 10:00 | 0 | 0 | 0 | 1 | 8 | 33 | 36 | 4 | 1 | 0 | 0 | 1 | 0 | 84 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 17 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 41 |
| Total | 18 | 0 | 8 | 45 | 425 | 2055 | 1239 | 206 | 26 | 5 | 4 | 1 | 0 | 4032 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 1 | 0 | 2 | 12 | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 29 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 13 | 21 | 4 | 3 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 32 | 21 | 8 | 1 | 1 | 1 | 0 | 0 | 66 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 45 | 34 | 15 | 0 | 0 | 0 | 0 | 1 | 101 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 99 | 52 | 11 | 1 | 0 | 0 | 0 | 1 | 170 |
| 11:00 | 2 | 0 | 0 | 1 | 14 | 100 | 66 | 14 | 0 | 1 | 0 | 0 | 0 | 198 |
| 12:00 PM | 0 | 0 | 0 | 1 | 10 | 75 | 40 | 13 | 1 | 0 | 0 | 0 | 0 | 140 |
| 1:00 | 0 | 0 | 0 | 2 | 13 | 72 | 52 | 17 | 1 | 0 | 0 | 0 | 0 | 157 |
| 2:00 | 1 | 0 | 0 | 2 | 21 | 124 | 80 | 17 | 1 | 2 | 0 | 0 | 0 | 248 |
| 3:00 | 0 | 0 | 0 | 0 | 19 | 121 | 65 | 14 | 1 | 0 | 0 | 0 | 0 | 220 |
| 4:00 | 1 | 0 | 0 | 0 | 13 | 73 | 76 | 14 | 0 | 0 | 0 | 0 | 0 | 177 |
| 5:00 | 0 | 0 | 0 | 1 | 22 | 75 | 48 | 9 | 1 | 0 | 0 | 0 | 0 | 156 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 67 | 62 | 24 | 0 | 0 | 0 | 0 | 0 | 158 |
| 7:00 | 0 | 0 | 1 | 0 | 0 | 27 | 43 | 9 | 1 | 0 | 0 | 0 | 0 | 81 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 23 | 41 | 6 | 0 | 0 | 0 | 0 | 0 | 72 |
| 9:00 | 0 | 0 | 0 | 1 | 1 | 26 | 30 | 10 | 0 | 1 | 0 | 0 | 0 | 69 |
| 10:00 | 0 | 0 | 0 | 1 | 10 | 23 | 7 | 6 | 2 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 9 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 4 | 0 | 2 | 10 | 150 | 1029 | 766 | 209 | 21 | 7 | 1 | 0 | 2 | 2201 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 7 | 2 | 0 | 0 | 0 | 0 | 28 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 12 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 36 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 29 | 34 | 13 | 1 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 2 | 0 | 0 | 1 | 10 | 62 | 33 | 12 | 3 | 1 | 0 | 0 | 0 | 124 |
| 9:00 | 1 | 0 | 0 | 0 | 7 | 110 | 91 | 22 | 5 | 0 | 0 | 0 | 0 | 236 |
| 10:00 | 1 | 0 | 0 | 2 | 21 | 161 | 74 | 14 | 1 | 0 | 0 | 1 | 0 | 275 |
| 11:00 | 0 | 0 | 0 | 1 | 24 | 172 | 98 | 13 | 0 | 0 | 0 | 0 | 0 | 308 |
| 12:00 PM | 1 | 0 | 0 | 0 | 12 | 152 | 122 | 20 | 3 | 0 | 0 | 0 | 0 | 310 |
| 1:00 | 0 | 0 | 0 | 4 | 17 | 139 | 108 | 19 | 1 | 0 | 0 | 0 | 0 | 288 |
| 2:00 | 2 | 0 | 0 | 0 | 23 | 190 | 68 | 12 | 0 | 0 | 0 | 0 | 0 | 295 |
| 3:00 | 0 | 0 | 0 | 3 | 36 | 160 | 71 | 9 | 1 | 0 | 0 | 0 | 0 | 280 |
| 4:00 | 0 | 0 | 4 | 3 | 41 | 166 | 86 | 8 | 0 | 0 | 0 | 0 | 0 | 308 |
| 5:00 | 4 | 0 | 0 | 4 | 10 | 125 | 82 | 12 | 0 | 0 | 0 | 0 | 0 | 237 |
| 6:00 | 30 | 31 | 32 | 11 | 28 | 59 | 31 | 7 | 3 | 2 | 0 | 0 | 0 | 234 |
| 7:00 | 6 | 4 | 29 | 44 | 48 | 39 | 14 | 7 | 0 | 0 | 0 | 0 | 0 | 191 |
| 8:00 | 0 | 0 | 1 | 0 | 5 | 59 | 62 | 11 | 2 | 0 | 0 | 0 | 0 | 140 |
| 9:00 | 0 | 0 | 0 | 0 | 10 | 69 | 52 | 9 | 2 | 0 | 0 | 0 | 0 | 142 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 53 | 40 | 9 | 3 | 0 | 0 | 0 | 0 | 115 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 14 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 42 |
| Total | 47 | 35 | 66 | 74 | 310 | 1786 | 1120 | 216 | 28 | 3 | 0 | 1 | 0 | 3686 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 13 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 3 | 3 | 1 | 0 | 0 | 0 | 22 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 18 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 18 | 38 | 7 | 0 | 0 | 0 | 0 | 0 | 63 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 58 | 44 | 16 | 3 | 0 | 0 | 0 | 0 | 123 |
| 9:00 | 0 | 0 | 1 | 1 | 8 | 105 | 75 | 14 | 0 | 0 | 0 | 0 | 0 | 204 |
| 10:00 | 2 | 0 | 0 | 6 | 27 | 133 | 123 | 21 | 1 | 0 | 0 | 0 | 0 | 313 |
| 11:00 | 3 | 0 | 0 | 0 | 9 | 154 | 98 | 13 | 2 | 0 | 0 | 0 | 0 | 279 |
| 12:00 PM | 0 | 0 | 9 | 6 | 28 | 117 | 79 | 16 | 4 | 0 | 0 | 0 | 0 | 259 |
| 1:00 | 2 | 0 | 0 | 0 | 10 | 139 | 116 | 14 | 1 | 0 | 0 | 0 | 0 | 282 |
| 2:00 | 0 | 0 | 0 | 3 | 24 | 182 | 98 | 7 | 1 | 1 | 0 | 0 | 0 | 316 |
| 3:00 | 0 | 0 | 0 | 0 | 38 | 207 | 80 | 12 | 0 | 0 | 0 | 0 | 0 | 337 |
| 4:00 | 0 | 0 | 0 | 0 | 49 | 155 | 124 | 8 | 1 | 0 | 0 | 0 | 1 | 338 |
| 5:00 | 0 | 0 | 0 | 0 | 73 | 170 | 105 | 12 | 2 | 0 | 0 | 0 | 0 | 362 |
| 6:00 | 0 | 0 | 0 | 0 | 15 | 129 | 93 | 16 | 3 | 1 | 0 | 0 | 0 | 257 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 48 | 45 | 16 | 1 | 0 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 0 | 0 | 1 | 6 | 23 | 33 | 17 | 2 | 0 | 1 | 0 | 0 | 83 |
| 9:00 | 0 | 0 | 0 | 0 | 17 | 50 | 38 | 11 | 3 | 0 | 0 | 0 | 0 | 119 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 33 | 28 | 8 | 0 | 0 | 0 | 0 | 0 | 71 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 14 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 27 |
| Total | 7 | 0 | 10 | 17 | 321 | 1778 | 1267 | 215 | 31 | 6 | 1 | 0 | 1 | 3654 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 9 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 14 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 34 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 32 | 28 | 3 | 1 | 1 | 0 | 0 | 0 | 65 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 63 | 38 | 18 | 3 | 0 | 0 | 0 | 0 | 122 |
| 9:00 | 0 | 1 | 1 | 0 | 2 | 82 | 97 | 11 | 1 | 0 | 0 | 0 | 0 | 195 |
| 10:00 | 1 | 0 | 0 | 0 | 17 | 116 | 96 | 10 | 1 | 1 | 0 | 0 | 0 | 242 |
| 11:00 | 1 | 0 | 0 | 6 | 18 | 124 | 89 | 10 | 3 | 0 | 0 | 0 | 0 | 251 |
| 12:00 PM | 0 | 0 | 0 | 0 | 11 | 94 | 96 | 23 | 0 | 0 | 0 | 0 | 0 | 224 |
| 1:00 | 0 | 0 | 0 | 0 | 11 | 90 | 86 | 18 | 3 | 3 | 0 | 0 | 0 | 211 |
| 2:00 | 0 | 0 | 0 | 3 | 10 | 128 | 93 | 10 | 1 | 0 | 0 | 0 | 0 | 245 |
| 3:00 | 0 | 0 | 0 | 0 | 18 | 134 | 93 | 14 | 4 | 0 | 0 | 0 | 0 | 263 |
| 4:00 | 0 | 0 | 0 | 0 | 11 | 133 | 93 | 22 | 4 | 1 | 0 | 0 | 0 | 264 |
| 5:00 | 0 | 0 | 0 | 1 | 30 | 138 | 110 | 11 | 2 | 2 | 0 | 0 | 0 | 294 |
| 6:00 | 0 | 0 | 0 | 1 | 13 | 72 | 51 | 23 | 1 | 1 | 0 | 0 | 0 | 162 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 28 | 35 | 6 | 2 | 1 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 22 | 21 | 12 | 3 | 0 | 0 | 0 | 0 | 59 |
| 9:00 | 0 | 0 | 1 | 1 | 5 | 23 | 17 | 11 | 1 | 0 | 0 | 0 | 0 | 59 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 15 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 38 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 5 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 2 | 1 | 2 | 12 | 161 | 1329 | 1101 | 216 | 33 | 10 | 0 | 0 | 0 | 2867 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 6 | 14 | 3 | 1 | 0 | 0 | 0 | 0 | 26 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 9 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 7:00 | 2 | 0 | 0 | 0 | 10 | 85 | 70 | 13 | 0 | 0 | 0 | 0 | 0 | 180 |
| 8:00 | 2 | 0 | 0 | 0 | 12 | 86 | 57 | 9 | 0 | 0 | 0 | 0 | 0 | 166 |
| 9:00 | 2 | 0 | 0 | 0 | 20 | 118 | 71 | 9 | 0 | 0 | 0 | 0 | 0 | 220 |
| 10:00 | 2 | 0 | 0 | 0 | 14 | 137 | 88 | 12 | 2 | 0 | 0 | 0 | 0 | 255 |
| 11:00 | 3 | 0 | 0 | 1 | 34 | 180 | 70 | 14 | 1 | 0 | 0 | 0 | 0 | 303 |
| 12:00 PM | 5 | 0 | 0 | 1 | 38 | 162 | 100 | 4 | 1 | 0 | 0 | 0 | 0 | 311 |
| 1:00 | 2 | 0 | 0 | 6 | 40 | 161 | 91 | 8 | 1 | 0 | 0 | 0 | 0 | 309 |
| 2:00 | 1 | 0 | 0 | 4 | 66 | 248 | 93 | 11 | 1 | 0 | 0 | 0 | 0 | 424 |
| 3:00 | 0 | 0 | 0 | 13 | 68 | 262 | 105 | 7 | 1 | 0 | 0 | 0 | 1 | 457 |
| 4:00 | 0 | 0 | 0 | 2 | 34 | 225 | 83 | 10 | 1 | 1 | 0 | 0 | 0 | 356 |
| 5:00 | 0 | 1 | 0 | 5 | 43 | 149 | 77 | 11 | 2 | 0 | 0 | 0 | 0 | 288 |
| 6:00 | 0 | 0 | 0 | 0 | 19 | 101 | 74 | 11 | 0 | 0 | 0 | 0 | 0 | 205 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 37 | 30 | 14 | 4 | 0 | 0 | 0 | 0 | 88 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 24 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 64 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 24 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 48 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 25 | 6 | 2 | 0 | 1 | 0 | 0 | 0 | 36 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 19 | 1 | 0 | 32 | 419 | 2054 | 1111 | 152 | 16 | 2 | 0 | 0 | 1 | 3807 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 8 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 21 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 11 | 13 | 3 | 1 | 0 | 0 | 0 | 0 | 29 |
| 7:00 | 2 | 0 | 0 | 0 | 7 | 85 | 75 | 10 | 0 | 0 | 0 | 0 | 0 | 179 |
| 8:00 | 1 | 0 | 0 | 0 | 13 | 68 | 70 | 11 | 3 | 0 | 0 | 0 | 0 | 166 |
| 9:00 | 2 | 0 | 0 | 5 | 24 | 108 | 52 | 7 | 0 | 0 | 0 | 0 | 0 | 198 |
| 10:00 | 1 | 0 | 0 | 0 | 25 | 133 | 86 | 18 | 0 | 1 | 0 | 0 | 1 | 265 |
| 11:00 | 2 | 0 | 0 | 3 | 29 | 153 | 114 | 20 | 1 | 1 | 0 | 0 | 0 | 323 |
| 12:00 PM | 0 | 0 | 0 | 0 | 34 | 161 | 116 | 18 | 3 | 0 | 0 | 0 | 0 | 332 |
| 1:00 | 1 | 0 | 0 | 4 | 35 | 191 | 85 | 14 | 3 | 0 | 0 | 0 | 0 | 333 |
| 2:00 | 0 | 0 | 0 | 12 | 29 | 237 | 116 | 17 | 0 | 0 | 0 | 0 | 0 | 411 |
| 3:00 | 3 | 0 | 0 | 1 | 61 | 244 | 106 | 18 | 0 | 1 | 0 | 0 | 1 | 435 |
| 4:00 | 7 | 0 | 0 | 0 | 32 | 216 | 108 | 11 | 3 | 0 | 0 | 0 | 0 | 377 |
| 5:00 | 0 | 0 | 0 | 0 | 34 | 167 | 115 | 18 | 2 | 0 | 0 | 0 | 0 | 336 |
| 6:00 | 0 | 0 | 0 | 0 | 16 | 109 | 55 | 6 | 0 | 0 | 0 | 0 | 0 | 186 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 26 | 39 | 13 | 0 | 0 | 0 | 0 | 0 | 85 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 23 | 29 | 7 | 3 | 0 | 1 | 0 | 0 | 66 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 32 | 25 | 4 | 1 | 0 | 0 | 0 | 0 | 73 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 17 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 36 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 19 | 0 | 0 | 25 | 369 | 1998 | 1243 | 214 | 22 | 3 | 1 | 0 | 2 | 3896 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 12 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 33 |
| 7:00 | 2 | 0 | 0 | 2 | 10 | 73 | 80 | 9 | 0 | 0 | 0 | 0 | 1 | 177 |
| 8:00 | 1 | 0 | 0 | 4 | 7 | 98 | 48 | 15 | 2 | 0 | 0 | 0 | 0 | 175 |
| 9:00 | 2 | 0 | 0 | 0 | 17 | 138 | 108 | 8 | 2 | 0 | 0 | 0 | 0 | 275 |
| 10:00 | 1 | 0 | 0 | 0 | 24 | 161 | 81 | 7 | 0 | 0 | 0 | 0 | 0 | 274 |
| 11:00 | 2 | 0 | 1 | 4 | 21 | 196 | 94 | 6 | 0 | 0 | 0 | 0 | 0 | 324 |
| 12:00 PM | 3 | 0 | 0 | 0 | 43 | 199 | 91 | 18 | 0 | 0 | 0 | 0 | 0 | 354 |
| 1:00 | 2 | 0 | 0 | 1 | 49 | 172 | 103 | 19 | 3 | 0 | 1 | 0 | 0 | 350 |
| 2:00 | 4 | 0 | 0 | 23 | 63 | 264 | 96 | 7 | 0 | 1 | 0 | 0 | 0 | 458 |
| 3:00 | 1 | 0 | 0 | 1 | 74 | 265 | 78 | 1 | 1 | 1 | 0 | 0 | 0 | 422 |
| 4:00 | 19 | 8 | 8 | 10 | 38 | 182 | 92 | 10 | 1 | 0 | 0 | 0 | 0 | 368 |
| 5:00 | 0 | 0 | 0 | 1 | 56 | 176 | 76 | 8 | 1 | 0 | 0 | 0 | 0 | 318 |
| 6:00 | 0 | 0 | 0 | 2 | 21 | 97 | 58 | 11 | 2 | 0 | 0 | 0 | 0 | 191 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 53 | 60 | 16 | 4 | 0 | 1 | 0 | 0 | 137 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 24 | 50 | 5 | 2 | 0 | 0 | 0 | 0 | 85 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 57 | 42 | 5 | 1 | 0 | 0 | 1 | 0 | 117 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 37 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 65 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 12 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 18 |
| Total | 37 | 8 | 9 | 48 | 457 | 2238 | 1204 | 156 | 21 | 2 | 2 | 1 | 1 | 4184 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 19 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 7:00 | 0 | 0 | 0 | 0 | 10 | 72 | 74 | 10 | 0 | 1 | 0 | 0 | 0 | 167 |
| 8:00 | 1 | 0 | 0 | 1 | 5 | 71 | 73 | 10 | 3 | 0 | 0 | 0 | 0 | 164 |
| 9:00 | 0 | 0 | 0 | 0 | 13 | 108 | 78 | 10 | 2 | 0 | 0 | 0 | 0 | 211 |
| 10:00 | 0 | 0 | 0 | 0 | 27 | 143 | 69 | 12 | 1 | 0 | 0 | 0 | 0 | 252 |
| 11:00 | 2 | 0 | 1 | 2 | 28 | 169 | 94 | 9 | 1 | 0 | 0 | 0 | 0 | 306 |
| 12:00 PM | 1 | 3 | 11 | 1 | 32 | 163 | 97 | 18 | 0 | 0 | 1 | 0 | 0 | 327 |
| 1:00 | 1 | 0 | 0 | 1 | 31 | 178 | 109 | 10 | 1 | 0 | 0 | 0 | 0 | 331 |
| 2:00 | 0 | 0 | 0 | 6 | 66 | 270 | 95 | 7 | 1 | 0 | 0 | 0 | 0 | 445 |
| 3:00 | 2 | 0 | 0 | 6 | 103 | 275 | 56 | 6 | 0 | 0 | 0 | 0 | 0 | 448 |
| 4:00 | 5 | 0 | 1 | 19 | 70 | 163 | 97 | 16 | 0 | 0 | 0 | 0 | 0 | 371 |
| 5:00 | 0 | 0 | 0 | 7 | 52 | 175 | 92 | 10 | 1 | 1 | 0 | 0 | 0 | 338 |
| 6:00 | 0 | 0 | 0 | 1 | 16 | 108 | 72 | 20 | 2 | 0 | 1 | 0 | 0 | 220 |
| 7:00 | 0 | 0 | 0 | 6 | 2 | 60 | 42 | 13 | 2 | 1 | 0 | 0 | 0 | 126 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 44 | 35 | 5 | 0 | 0 | 0 | 0 | 0 | 86 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 59 | 16 | 3 | 0 | 1 | 0 | 0 | 0 | 82 |
| 10:00 | 0 | 0 | 0 | 0 | 8 | 22 | 12 | 2 | 2 | 0 | 0 | 0 | 0 | 46 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 8 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | 12 | 3 | 13 | 50 | 474 | 2116 | 1148 | 170 | 17 | 4 | 2 | 0 | 0 | 4009 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 4 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 1 | 4 | 18 | 9 | 3 | 0 | 0 | 0 | 1 | 0 | 36 |
| 7:00 | 1 | 0 | 0 | 0 | 10 | 89 | 59 | 15 | 3 | 0 | 0 | 0 | 0 | 177 |
| 8:00 | 2 | 0 | 0 | 0 | 15 | 76 | 82 | 12 | 0 | 0 | 0 | 0 | 0 | 187 |
| 9:00 | 3 | 1 | 4 | 0 | 12 | 118 | 91 | 12 | 1 | 0 | 0 | 0 | 0 | 242 |
| 10:00 | 3 | 0 | 0 | 3 | 38 | 179 | 87 | 9 | 0 | 0 | 0 | 0 | 0 | 319 |
| 11:00 | 0 | 0 | 0 | 2 | 51 | 187 | 87 | 13 | 2 | 1 | 0 | 0 | 0 | 343 |
| 12:00 PM | 2 | 0 | 0 | 0 | 54 | 176 | 117 | 20 | 3 | 0 | 0 | 0 | 0 | 372 |
| 1:00 | 1 | 0 | 0 | 0 | 23 | 160 | 106 | 20 | 0 | 0 | 1 | 0 | 0 | 311 |
| 2:00 | 0 | 0 | 0 | 1 | 51 | 237 | 117 | 5 | 1 | 1 | 0 | 0 | 0 | 413 |
| 3:00 | 2 | 0 | 0 | 1 | 49 | 246 | 124 | 19 | 3 | 1 | 0 | 0 | 0 | 445 |
| 4:00 | 2 | 0 | 1 | 0 | 26 | 247 | 124 | 12 | 2 | 0 | 1 | 0 | 0 | 415 |
| 5:00 | 0 | 0 | 2 | 5 | 52 | 136 | 120 | 9 | 1 | 0 | 0 | 0 | 0 | 325 |
| 6:00 | 0 | 0 | 1 | 9 | 24 | 78 | 84 | 12 | 1 | 0 | 0 | 0 | 0 | 209 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 28 | 42 | 8 | 1 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 40 | 23 | 2 | 0 | 1 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 1 | 12 | 45 | 37 | 5 | 0 | 0 | 0 | 0 | 0 | 100 |
| 10:00 | 0 | 0 | 0 | 1 | 15 | 47 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 72 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 11 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total | 16 | 1 | 8 | 24 | 448 | 2128 | 1354 | 186 | 18 | 4 | 2 | 1 | 0 | 4190 |



911

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 9 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 16 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 26 | 28 | 7 | 3 | 0 | 0 | 0 | 0 | 66 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 54 | 55 | 12 | 5 | 0 | 0 | 0 | 0 | 127 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 82 | 74 | 19 | 2 | 0 | 0 | 0 | 0 | 181 |
| 10:00 | 0 | 0 | 0 | 0 | 9 | 110 | 93 | 10 | 1 | 1 | 0 | 0 | 0 | 224 |
| 11:00 | 0 | 0 | 0 | 0 | 20 | 112 | 86 | 22 | 1 | 0 | 0 | 0 | 0 | 241 |
| 12:00 PM | 3 | 0 | 0 | 3 | 28 | 144 | 84 | 11 | 1 | 0 | 0 | 0 | 0 | 274 |
| 1:00 | 1 | 0 | 0 | 0 | 21 | 173 | 93 | 13 | 0 | 1 | 0 | 0 | 0 | 302 |
| 2:00 | 0 | 0 | 0 | 0 | 33 | 157 | 97 | 14 | 2 | 0 | 0 | 0 | 1 | 304 |
| 3:00 | 2 | 0 | 0 | 4 | 40 | 144 | 83 | 13 | 2 | 0 | 0 | 0 | 0 | 288 |
| 4:00 | 1 | 0 | 0 | 9 | 50 | 143 | 82 | 11 | 0 | 0 | 0 | 0 | 0 | 296 |
| 5:00 | 0 | 0 | 0 | 0 | 52 | 162 | 73 | 3 | 0 | 0 | 0 | 0 | 0 | 290 |
| 6:00 | 0 | 0 | 1 | 0 | 35 | 125 | 44 | 7 | 1 | 0 | 0 | 0 | 0 | 213 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 91 | 48 | 9 | 1 | 1 | 0 | 0 | 0 | 156 |
| 8:00 | 0 | 0 | 0 | 4 | 41 | 85 | 35 | 2 | 1 | 0 | 0 | 0 | 0 | 168 |
| 9:00 | 0 | 0 | 0 | 0 | 8 | 99 | 43 | 5 | 2 | 0 | 0 | 0 | 0 | 157 |
| 10:00 | 0 | 0 | 0 | 1 | 17 | 43 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 80 |
| 11:00 | 0 | 0 | 0 | 1 | 6 | 18 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 35 |
| Total | 7 | 0 | 1 | 23 | 380 | 1800 | 1057 | 168 | 25 | 4 | 0 | 0 | 1 | 3466 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 16 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 0 | 0 | 0 | 1 | 8 | 33 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 51 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 58 | 38 | 9 | 0 | 0 | 0 | 0 | 0 | 107 |
| 9:00 | 0 | 0 | 0 | 0 | 13 | 121 | 53 | 7 | 1 | 0 | 0 | 0 | 0 | 195 |
| 10:00 | 0 | 0 | 0 | 3 | 55 | 148 | 45 | 7 | 1 | 0 | 0 | 0 | 0 | 259 |
| 11:00 | 1 | 0 | 0 | 1 | 32 | 125 | 67 | 4 | 0 | 0 | 0 | 0 | 0 | 230 |
| 12:00 PM | 0 | 0 | 0 | 0 | 20 | 147 | 70 | 3 | 1 | 0 | 0 | 0 | 0 | 241 |
| 1:00 | 0 | 0 | 0 | 0 | 19 | 107 | 53 | 6 | 2 | 0 | 0 | 0 | 0 | 187 |
| 2:00 | 0 | 0 | 0 | 0 | 20 | 136 | 43 | 6 | 0 | 1 | 0 | 0 | 0 | 206 |
| 3:00 | 0 | 0 | 0 | 2 | 20 | 137 | 55 | 7 | 0 | 0 | 0 | 0 | 0 | 221 |
| 4:00 | 1 | 0 | 1 | 0 | 26 | 110 | 68 | 12 | 1 | 0 | 0 | 0 | 0 | 219 |
| 5:00 | 0 | 0 | 0 | 0 | 23 | 130 | 39 | 10 | 1 | 2 | 0 | 0 | 0 | 205 |
| 6:00 | 0 | 0 | 0 | 0 | 25 | 78 | 44 | 11 | 1 | 1 | 0 | 0 | 0 | 160 |
| 7:00 | 0 | 1 | 0 | 0 | 8 | 35 | 22 | 7 | 0 | 0 | 0 | 0 | 0 | 73 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 41 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 0 | 13 | 40 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 72 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 25 | 8 | 3 | 3 | 0 | 0 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 2 | 1 | 1 | 7 | 297 | 1510 | 681 | 104 | 15 | 4 | 0 | 0 | 0 | 2622 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Eastbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 19 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 7:00 | 4 | 1 | 0 | 1 | 32 | 93 | 42 | 2 | 0 | 0 | 0 | 0 | 0 | 175 |
| 8:00 | 2 | 0 | 0 | 1 | 22 | 94 | 32 | 3 | 0 | 0 | 0 | 0 | 0 | 154 |
| 9:00 | 3 | 0 | 0 | 0 | 47 | 126 | 53 | 3 | 1 | 0 | 0 | 0 | 0 | 233 |
| 10:00 | 2 | 0 | 0 | 0 | 78 | 169 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 295 |
| 11:00 | 0 | 0 | 0 | 1 | 24 | 171 | 91 | 10 | 1 | 0 | 0 | 0 | 0 | 298 |
| 12:00 PM | 0 | 0 | 0 | 7 | 38 | 189 | 71 | 12 | 0 | 0 | 0 | 0 | 0 | 317 |
| 1:00 | 0 | 0 | 0 | 10 | 93 | 184 | 41 | 6 | 3 | 0 | 0 | 0 | 0 | 337 |
| 2:00 | 0 | 0 | 1 | 20 | 172 | 243 | 39 | 5 | 1 | 0 | 0 | 0 | 0 | 481 |
| 3:00 | 1 | 0 | 0 | 6 | 111 | 237 | 71 | 8 | 0 | 0 | 0 | 0 | 0 | 434 |
| 4:00 | 2 | 0 | 0 | 0 | 52 | 123 | 21 | 0 | 2 | 1 | 0 | 0 | 0 | 201 |
| 5:00 | 7 | 0 | 0 | 4 | 15 | 43 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 6:00 | 2 | 0 | 0 | 0 | 9 | 13 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 30 |
| 7:00 | 5 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 28 | 1 | 1 | 51 | 700 | 1738 | 544 | 53 | 9 | 1 | 0 | 0 | 0 | 3126 |
| Grand Total | 308 | 58 | 171 | 612 | 8116 | 38261 | 21437 | 3378 | 424 | 77 | 19 | 7 | 8 | 72876 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 34 | 38 | 41 | 44 |
| | Mean Speed (Average) | 39.2 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 59696 | | | |
| | Percent in Pace | 82.0% | | | |
| | Number > 35 MPH | 63611 | | | |
| | Percent > 35 MPH | 87.3% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 1 | 0 | 0 | 0 | 2 | 36 | 37 | 9 | 0 | 0 | 0 | 0 | 0 | 85 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 131 | 129 | 26 | 0 | 0 | 0 | 0 | 0 | 294 |
| 7:00 | 2 | 0 | 0 | 0 | 15 | 170 | 189 | 32 | 1 | 0 | 0 | 1 | 0 | 410 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 171 | 184 | 26 | 1 | 0 | 0 | 0 | 0 | 388 |
| 9:00 | 0 | 1 | 0 | 0 | 13 | 154 | 195 | 33 | 2 | 1 | 0 | 0 | 0 | 399 |
| 10:00 | 3 | 0 | 0 | 0 | 17 | 152 | 154 | 28 | 2 | 0 | 0 | 0 | 0 | 356 |
| 11:00 | 2 | 0 | 0 | 1 | 16 | 163 | 154 | 27 | 3 | 0 | 0 | 0 | 0 | 366 |
| 12:00 PM | 4 | 0 | 0 | 0 | 13 | 154 | 121 | 27 | 3 | 0 | 0 | 1 | 0 | 323 |
| 1:00 | 0 | 0 | 0 | 0 | 16 | 114 | 151 | 27 | 0 | 1 | 1 | 0 | 0 | 310 |
| 2:00 | 0 | 0 | 0 | 0 | 13 | 90 | 125 | 32 | 2 | 0 | 0 | 0 | 0 | 262 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 72 | 118 | 43 | 2 | 0 | 0 | 0 | 0 | 236 |
| 4:00 | 1 | 0 | 0 | 7 | 5 | 79 | 119 | 32 | 2 | 0 | 0 | 0 | 0 | 245 |
| 5:00 | 2 | 0 | 0 | 0 | 2 | 47 | 89 | 24 | 4 | 0 | 0 | 0 | 0 | 168 |
| 6:00 | 0 | 0 | 1 | 0 | 4 | 49 | 59 | 7 | 2 | 0 | 0 | 0 | 0 | 122 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 32 | 37 | 17 | 2 | 1 | 0 | 0 | 0 | 90 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 22 | 15 | 7 | 4 | 1 | 0 | 0 | 0 | 52 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 12 | 17 | 4 | 1 | 0 | 0 | 0 | 0 | 35 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 24 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 15 | 1 | 1 | 8 | 136 | 1668 | 1916 | 409 | 32 | 4 | 1 | 2 | 0 | 4193 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 29 | 33 | 8 | 1 | 1 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 0 | 10 | 155 | 112 | 10 | 0 | 0 | 0 | 0 | 0 | 287 |
| 7:00 | 0 | 0 | 0 | 1 | 26 | 184 | 189 | 22 | 3 | 0 | 0 | 0 | 0 | 425 |
| 8:00 | 0 | 0 | 0 | 3 | 8 | 172 | 195 | 34 | 1 | 1 | 0 | 0 | 0 | 414 |
| 9:00 | 1 | 0 | 0 | 0 | 14 | 169 | 205 | 36 | 2 | 0 | 0 | 0 | 0 | 427 |
| 10:00 | 1 | 0 | 0 | 3 | 17 | 164 | 161 | 15 | 4 | 0 | 0 | 0 | 0 | 365 |
| 11:00 | 2 | 0 | 0 | 0 | 16 | 150 | 144 | 23 | 0 | 0 | 0 | 0 | 0 | 335 |
| 12:00 PM | 1 | 0 | 2 | 3 | 24 | 115 | 138 | 22 | 4 | 0 | 0 | 0 | 0 | 309 |
| 1:00 | 1 | 0 | 0 | 0 | 14 | 100 | 165 | 36 | 1 | 0 | 0 | 0 | 0 | 317 |
| 2:00 | 4 | 0 | 0 | 0 | 10 | 110 | 124 | 11 | 3 | 1 | 0 | 0 | 0 | 263 |
| 3:00 | 2 | 0 | 0 | 1 | 5 | 79 | 109 | 31 | 1 | 0 | 0 | 0 | 0 | 228 |
| 4:00 | 1 | 0 | 0 | 0 | 20 | 87 | 91 | 10 | 3 | 1 | 1 | 0 | 1 | 215 |
| 5:00 | 2 | 0 | 0 | 0 | 4 | 44 | 76 | 27 | 0 | 0 | 0 | 0 | 0 | 153 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 42 | 38 | 4 | 0 | 1 | 0 | 0 | 0 | 93 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 20 | 62 | 8 | 2 | 1 | 0 | 0 | 0 | 93 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 17 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 46 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 21 | 11 | 6 | 1 | 0 | 0 | 0 | 0 | 42 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 12 | 5 | 1 | 0 | 0 | 0 | 0 | 23 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 15 | 0 | 2 | 11 | 183 | 1673 | 1903 | 315 | 28 | 6 | 1 | 0 | 1 | 4138 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 21 | 41 | 4 | 0 | 0 | 0 | 0 | 0 | 67 |
| 6:00 | 0 | 0 | 0 | 3 | 9 | 134 | 98 | 14 | 1 | 0 | 0 | 0 | 0 | 259 |
| 7:00 | 0 | 0 | 0 | 3 | 22 | 207 | 168 | 26 | 3 | 0 | 0 | 0 | 0 | 429 |
| 8:00 | 0 | 0 | 0 | 0 | 31 | 170 | 137 | 22 | 2 | 0 | 0 | 0 | 0 | 362 |
| 9:00 | 1 | 0 | 0 | 0 | 25 | 133 | 147 | 14 | 3 | 0 | 0 | 0 | 0 | 323 |
| 10:00 | 4 | 0 | 0 | 4 | 25 | 120 | 132 | 35 | 2 | 0 | 0 | 0 | 0 | 322 |
| 11:00 | 1 | 0 | 0 | 1 | 3 | 161 | 151 | 37 | 3 | 0 | 0 | 0 | 0 | 357 |
| 12:00 PM | 2 | 0 | 0 | 8 | 15 | 126 | 142 | 21 | 2 | 0 | 0 | 0 | 0 | 316 |
| 1:00 | 4 | 0 | 0 | 0 | 16 | 144 | 123 | 20 | 0 | 1 | 0 | 0 | 0 | 308 |
| 2:00 | 0 | 0 | 0 | 0 | 15 | 83 | 133 | 31 | 3 | 0 | 0 | 0 | 0 | 265 |
| 3:00 | 0 | 0 | 0 | 0 | 5 | 72 | 110 | 38 | 3 | 0 | 0 | 0 | 0 | 228 |
| 4:00 | 0 | 0 | 0 | 5 | 8 | 75 | 155 | 38 | 6 | 2 | 0 | 0 | 1 | 290 |
| 5:00 | 1 | 0 | 0 | 0 | 5 | 46 | 68 | 27 | 3 | 0 | 0 | 0 | 0 | 150 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 35 | 49 | 14 | 6 | 0 | 0 | 0 | 0 | 107 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 19 | 65 | 10 | 5 | 3 | 0 | 0 | 0 | 105 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 23 | 33 | 12 | 0 | 0 | 0 | 0 | 0 | 69 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 20 | 13 | 10 | 3 | 0 | 0 | 0 | 0 | 48 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 13 | 5 | 3 | 0 | 0 | 0 | 0 | 27 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 1 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 19 |
| Total | 13 | 0 | 0 | 24 | 190 | 1603 | 1804 | 385 | 48 | 6 | 0 | 0 | 1 | 4074 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 0 | 5 | 0 | 1 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 18 | 30 | 11 | 1 | 0 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 56 | 61 | 14 | 2 | 0 | 0 | 0 | 0 | 140 |
| 7:00 | 0 | 0 | 0 | 0 | 13 | 80 | 111 | 25 | 7 | 0 | 1 | 0 | 0 | 237 |
| 8:00 | 1 | 0 | 0 | 0 | 7 | 109 | 107 | 24 | 3 | 0 | 0 | 0 | 0 | 251 |
| 9:00 | 0 | 0 | 0 | 0 | 12 | 117 | 123 | 35 | 1 | 0 | 0 | 0 | 0 | 288 |
| 10:00 | 6 | 6 | 3 | 6 | 40 | 95 | 101 | 31 | 0 | 0 | 1 | 0 | 0 | 289 |
| 11:00 | 1 | 0 | 0 | 2 | 18 | 104 | 124 | 22 | 0 | 1 | 0 | 0 | 1 | 273 |
| 12:00 PM | 3 | 0 | 0 | 0 | 9 | 134 | 131 | 28 | 4 | 4 | 0 | 0 | 0 | 313 |
| 1:00 | 3 | 0 | 3 | 7 | 16 | 111 | 107 | 35 | 2 | 2 | 0 | 0 | 1 | 287 |
| 2:00 | 0 | 1 | 1 | 0 | 5 | 99 | 125 | 30 | 4 | 0 | 1 | 0 | 0 | 266 |
| 3:00 | 1 | 0 | 0 | 0 | 4 | 87 | 111 | 42 | 4 | 0 | 0 | 0 | 0 | 249 |
| 4:00 | 2 | 0 | 0 | 1 | 9 | 79 | 125 | 43 | 12 | 0 | 0 | 0 | 0 | 271 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 52 | 90 | 21 | 11 | 2 | 0 | 0 | 0 | 178 |
| 6:00 | 3 | 0 | 0 | 3 | 9 | 47 | 63 | 22 | 6 | 1 | 0 | 0 | 0 | 154 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 39 | 47 | 15 | 1 | 2 | 0 | 0 | 0 | 106 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 36 | 45 | 20 | 1 | 1 | 0 | 1 | 0 | 104 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 22 | 16 | 4 | 2 | 1 | 0 | 0 | 0 | 49 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 8 | 13 | 1 | 2 | 0 | 0 | 0 | 0 | 25 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 4 | 6 | 4 | 1 | 0 | 1 | 0 | 0 | 17 |
| Total | 20 | 7 | 7 | 19 | 161 | 1304 | 1554 | 428 | 72 | 15 | 5 | 1 | 2 | 3595 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 2 | 1 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 5 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 18 | 24 | 6 | 2 | 0 | 0 | 0 | 0 | 50 |
| 6:00 | 1 | 0 | 0 | 0 | 6 | 27 | 38 | 10 | 3 | 0 | 0 | 0 | 0 | 85 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 31 | 58 | 26 | 3 | 0 | 0 | 0 | 0 | 118 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 56 | 66 | 29 | 4 | 1 | 0 | 0 | 0 | 159 |
| 9:00 | 0 | 0 | 2 | 5 | 6 | 114 | 110 | 20 | 4 | 0 | 1 | 0 | 0 | 262 |
| 10:00 | 1 | 0 | 0 | 1 | 4 | 143 | 133 | 27 | 2 | 1 | 0 | 0 | 0 | 312 |
| 11:00 | 4 | 0 | 0 | 0 | 18 | 126 | 137 | 37 | 4 | 0 | 0 | 0 | 0 | 326 |
| 12:00 PM | 1 | 0 | 0 | 6 | 7 | 115 | 142 | 20 | 4 | 0 | 0 | 0 | 1 | 296 |
| 1:00 | 2 | 0 | 0 | 0 | 11 | 104 | 148 | 52 | 9 | 0 | 0 | 0 | 0 | 326 |
| 2:00 | 1 | 0 | 0 | 0 | 4 | 80 | 107 | 32 | 10 | 0 | 0 | 0 | 0 | 234 |
| 3:00 | 3 | 0 | 0 | 1 | 2 | 40 | 112 | 37 | 9 | 0 | 0 | 0 | 0 | 204 |
| 4:00 | 0 | 0 | 1 | 5 | 7 | 73 | 71 | 20 | 5 | 0 | 0 | 0 | 0 | 182 |
| 5:00 | 3 | 0 | 0 | 1 | 10 | 46 | 50 | 19 | 2 | 0 | 0 | 0 | 0 | 131 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 36 | 31 | 18 | 3 | 0 | 0 | 0 | 0 | 90 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 23 | 29 | 14 | 0 | 1 | 0 | 0 | 0 | 70 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 18 | 29 | 6 | 0 | 0 | 0 | 0 | 0 | 55 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 14 | 15 | 5 | 1 | 0 | 0 | 0 | 0 | 36 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 5 | 1 | 1 | 0 | 0 | 0 | 18 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 16 | 0 | 3 | 20 | 87 | 1075 | 1323 | 389 | 70 | 5 | 1 | 0 | 2 | 2991 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 35 | 26 | 5 | 1 | 0 | 0 | 0 | 0 | 69 |
| 6:00 | 0 | 0 | 0 | 0 | 16 | 118 | 95 | 9 | 0 | 0 | 0 | 0 | 0 | 238 |
| 7:00 | 1 | 0 | 0 | 2 | 11 | 152 | 183 | 19 | 4 | 0 | 0 | 0 | 0 | 372 |
| 8:00 | 2 | 0 | 0 | 4 | 14 | 177 | 167 | 15 | 1 | 0 | 0 | 0 | 0 | 380 |
| 9:00 | 0 | 0 | 4 | 11 | 22 | 192 | 121 | 32 | 0 | 1 | 0 | 0 | 0 | 383 |
| 10:00 | 0 | 0 | 0 | 2 | 36 | 183 | 118 | 26 | 1 | 0 | 0 | 0 | 0 | 366 |
| 11:00 | 1 | 0 | 0 | 3 | 28 | 153 | 140 | 26 | 3 | 1 | 0 | 0 | 0 | 355 |
| 12:00 PM | 3 | 0 | 0 | 0 | 11 | 148 | 130 | 22 | 2 | 0 | 0 | 0 | 0 | 316 |
| 1:00 | 1 | 0 | 0 | 3 | 26 | 114 | 116 | 34 | 4 | 0 | 0 | 0 | 0 | 298 |
| 2:00 | 1 | 0 | 0 | 0 | 8 | 96 | 127 | 34 | 3 | 1 | 0 | 0 | 0 | 270 |
| 3:00 | 1 | 0 | 0 | 0 | 12 | 97 | 142 | 25 | 1 | 0 | 0 | 0 | 0 | 278 |
| 4:00 | 0 | 0 | 0 | 0 | 5 | 67 | 102 | 40 | 5 | 1 | 0 | 0 | 0 | 220 |
| 5:00 | 1 | 0 | 0 | 0 | 4 | 81 | 91 | 22 | 2 | 0 | 0 | 0 | 0 | 201 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 42 | 61 | 10 | 3 | 0 | 0 | 0 | 0 | 118 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 24 | 57 | 15 | 2 | 0 | 0 | 0 | 0 | 98 |
| 8:00 | 0 | 0 | 0 | 1 | 2 | 35 | 34 | 12 | 1 | 0 | 0 | 1 | 0 | 86 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 11 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 32 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 12 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 0 | 1 | 1 | 1 | 0 | 0 | 15 |
| Total | 11 | 0 | 4 | 26 | 204 | 1747 | 1754 | 357 | 37 | 5 | 1 | 1 | 0 | 4147 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 32 | 41 | 4 | 1 | 0 | 0 | 0 | 0 | 79 |
| 6:00 | 0 | 0 | 0 | 3 | 15 | 162 | 75 | 7 | 0 | 0 | 0 | 0 | 0 | 262 |
| 7:00 | 1 | 0 | 0 | 0 | 16 | 158 | 170 | 36 | 4 | 1 | 0 | 0 | 0 | 386 |
| 8:00 | 1 | 0 | 0 | 0 | 20 | 196 | 197 | 48 | 0 | 0 | 0 | 0 | 0 | 462 |
| 9:00 | 1 | 0 | 0 | 0 | 22 | 233 | 157 | 20 | 3 | 1 | 0 | 0 | 0 | 437 |
| 10:00 | 3 | 0 | 0 | 1 | 13 | 180 | 175 | 29 | 1 | 1 | 0 | 0 | 0 | 403 |
| 11:00 | 4 | 0 | 0 | 1 | 27 | 136 | 203 | 36 | 0 | 0 | 0 | 0 | 0 | 407 |
| 12:00 PM | 7 | 0 | 0 | 0 | 20 | 150 | 178 | 18 | 0 | 0 | 0 | 0 | 0 | 373 |
| 1:00 | 0 | 0 | 0 | 5 | 10 | 115 | 135 | 22 | 6 | 1 | 0 | 0 | 0 | 294 |
| 2:00 | 2 | 0 | 1 | 1 | 5 | 97 | 119 | 31 | 1 | 0 | 0 | 0 | 0 | 257 |
| 3:00 | 3 | 0 | 0 | 5 | 10 | 100 | 99 | 24 | 1 | 0 | 0 | 0 | 0 | 242 |
| 4:00 | 2 | 0 | 3 | 6 | 4 | 112 | 110 | 26 | 7 | 1 | 0 | 0 | 0 | 271 |
| 5:00 | 0 | 0 | 0 | 0 | 10 | 68 | 101 | 32 | 2 | 1 | 0 | 0 | 0 | 214 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 36 | 63 | 18 | 1 | 1 | 0 | 0 | 0 | 122 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 30 | 30 | 12 | 1 | 1 | 0 | 0 | 0 | 79 |
| 8:00 | 1 | 0 | 0 | 0 | 0 | 20 | 32 | 9 | 5 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 22 | 21 | 7 | 4 | 0 | 0 | 0 | 0 | 55 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 14 | 8 | 4 | 2 | 0 | 0 | 0 | 0 | 28 |
| 11:00 | 0 | 0 | 0 | 2 | 3 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 12 |
| Total | 25 | 0 | 4 | 24 | 185 | 1876 | 1933 | 386 | 42 | 8 | 0 | 0 | 0 | 4483 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 24 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 102 | 108 | 9 | 2 | 0 | 0 | 0 | 0 | 228 |
| 7:00 | 0 | 0 | 12 | 2 | 15 | 176 | 154 | 27 | 1 | 0 | 0 | 0 | 0 | 387 |
| 8:00 | 0 | 0 | 0 | 0 | 14 | 172 | 144 | 26 | 0 | 1 | 1 | 0 | 0 | 358 |
| 9:00 | 0 | 0 | 0 | 0 | 19 | 140 | 159 | 35 | 2 | 0 | 0 | 0 | 0 | 355 |
| 10:00 | 1 | 0 | 0 | 1 | 38 | 131 | 150 | 31 | 2 | 0 | 1 | 0 | 0 | 355 |
| 11:00 | 7 | 0 | 0 | 0 | 21 | 127 | 150 | 25 | 6 | 0 | 0 | 0 | 0 | 336 |
| 12:00 PM | 4 | 1 | 2 | 5 | 7 | 128 | 171 | 23 | 7 | 1 | 0 | 0 | 0 | 349 |
| 1:00 | 2 | 0 | 7 | 1 | 18 | 140 | 123 | 31 | 1 | 1 | 0 | 0 | 0 | 324 |
| 2:00 | 1 | 0 | 0 | 8 | 10 | 110 | 119 | 25 | 7 | 0 | 0 | 0 | 0 | 280 |
| 3:00 | 0 | 0 | 0 | 0 | 7 | 74 | 140 | 46 | 4 | 4 | 0 | 0 | 0 | 275 |
| 4:00 | 8 | 0 | 0 | 0 | 4 | 76 | 106 | 27 | 4 | 1 | 0 | 0 | 1 | 227 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 48 | 79 | 18 | 3 | 1 | 0 | 0 | 0 | 152 |
| 6:00 | 1 | 0 | 1 | 3 | 4 | 42 | 60 | 7 | 1 | 2 | 0 | 0 | 0 | 121 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 23 | 43 | 10 | 3 | 1 | 1 | 0 | 0 | 86 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 37 | 34 | 14 | 3 | 0 | 1 | 0 | 0 | 91 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 12 | 19 | 8 | 6 | 0 | 0 | 0 | 0 | 47 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 7 | 16 | 7 | 2 | 3 | 0 | 0 | 0 | 35 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 9 |
| Total | 24 | 1 | 22 | 20 | 178 | 1578 | 1836 | 380 | 58 | 17 | 4 | 0 | 1 | 4119 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 12 | 28 | 4 | 2 | 0 | 0 | 0 | 0 | 47 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 49 | 36 | 13 | 2 | 0 | 0 | 0 | 0 | 102 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 37 | 67 | 17 | 4 | 1 | 0 | 0 | 0 | 126 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 49 | 52 | 25 | 5 | 0 | 0 | 0 | 0 | 132 |
| 9:00 | 2 | 0 | 0 | 0 | 2 | 64 | 93 | 28 | 6 | 1 | 0 | 0 | 0 | 196 |
| 10:00 | 0 | 0 | 0 | 0 | 13 | 68 | 79 | 26 | 0 | 0 | 0 | 0 | 0 | 186 |
| 11:00 | 2 | 0 | 1 | 4 | 6 | 82 | 83 | 28 | 5 | 0 | 0 | 0 | 0 | 211 |
| 12:00 PM | 0 | 0 | 0 | 1 | 8 | 75 | 117 | 37 | 5 | 1 | 0 | 0 | 0 | 244 |
| 1:00 | 1 | 0 | 0 | 1 | 11 | 58 | 76 | 22 | 5 | 1 | 0 | 0 | 0 | 175 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 66 | 91 | 19 | 5 | 0 | 0 | 0 | 0 | 183 |
| 3:00 | 0 | 0 | 0 | 0 | 12 | 41 | 47 | 21 | 4 | 0 | 0 | 0 | 0 | 125 |
| 4:00 | 1 | 0 | 1 | 0 | 5 | 34 | 60 | 28 | 6 | 1 | 0 | 0 | 0 | 136 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 27 | 49 | 9 | 0 | 0 | 0 | 0 | 0 | 86 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 20 | 29 | 4 | 5 | 0 | 0 | 0 | 0 | 60 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 4 | 25 | 4 | 0 | 1 | 0 | 0 | 0 | 35 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 18 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 41 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 5 | 4 | 0 | 0 | 1 | 0 | 24 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 13 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 6 | 0 | 2 | 7 | 68 | 728 | 973 | 302 | 63 | 6 | 0 | 2 | 0 | 2157 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 17 | 29 | 8 | 0 | 1 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 55 | 62 | 9 | 2 | 0 | 0 | 0 | 0 | 132 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 67 | 87 | 22 | 6 | 0 | 0 | 0 | 0 | 185 |
| 8:00 | 1 | 0 | 2 | 1 | 9 | 93 | 98 | 27 | 2 | 0 | 0 | 0 | 0 | 233 |
| 9:00 | 0 | 1 | 0 | 0 | 5 | 74 | 121 | 45 | 3 | 0 | 0 | 0 | 0 | 249 |
| 10:00 | 1 | 0 | 1 | 10 | 3 | 93 | 97 | 37 | 6 | 0 | 0 | 0 | 0 | 248 |
| 11:00 | 2 | 0 | 0 | 0 | 12 | 138 | 127 | 44 | 4 | 0 | 0 | 0 | 0 | 327 |
| 12:00 PM | 2 | 0 | 5 | 13 | 11 | 102 | 158 | 32 | 4 | 0 | 0 | 0 | 0 | 327 |
| 1:00 | 0 | 0 | 0 | 4 | 14 | 140 | 144 | 33 | 3 | 2 | 0 | 0 | 0 | 340 |
| 2:00 | 3 | 0 | 0 | 0 | 13 | 134 | 137 | 24 | 5 | 1 | 0 | 1 | 0 | 318 |
| 3:00 | 5 | 0 | 0 | 0 | 10 | 98 | 148 | 46 | 3 | 0 | 1 | 0 | 0 | 311 |
| 4:00 | 1 | 0 | 0 | 0 | 9 | 109 | 159 | 35 | 2 | 1 | 0 | 0 | 0 | 316 |
| 5:00 | 1 | 0 | 4 | 2 | 3 | 54 | 101 | 35 | 8 | 0 | 0 | 0 | 0 | 208 |
| 6:00 | 6 | 7 | 9 | 18 | 26 | 29 | 43 | 14 | 2 | 0 | 0 | 0 | 0 | 154 |
| 7:00 | 3 | 2 | 5 | 13 | 26 | 29 | 12 | 3 | 1 | 0 | 0 | 0 | 0 | 94 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 16 | 35 | 7 | 6 | 0 | 0 | 0 | 0 | 64 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 14 | 21 | 5 | 1 | 1 | 0 | 0 | 0 | 43 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 4 | 1 | 0 | 0 | 0 | 1 | 21 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 25 | 10 | 26 | 61 | 149 | 1277 | 1596 | 431 | 59 | 6 | 1 | 1 | 1 | 3643 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 16 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 49 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 49 | 26 | 8 | 3 | 1 | 0 | 0 | 1 | 89 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 39 | 104 | 27 | 5 | 1 | 0 | 0 | 0 | 178 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 80 | 87 | 20 | 6 | 1 | 0 | 0 | 0 | 195 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 138 | 123 | 35 | 4 | 0 | 0 | 0 | 0 | 309 |
| 10:00 | 0 | 0 | 0 | 1 | 10 | 112 | 112 | 25 | 2 | 0 | 0 | 0 | 0 | 262 |
| 11:00 | 1 | 0 | 2 | 7 | 15 | 125 | 158 | 38 | 4 | 0 | 0 | 0 | 1 | 351 |
| 12:00 PM | 1 | 0 | 0 | 0 | 15 | 167 | 147 | 29 | 2 | 1 | 0 | 0 | 0 | 362 |
| 1:00 | 0 | 0 | 0 | 0 | 4 | 105 | 122 | 35 | 2 | 0 | 0 | 0 | 0 | 268 |
| 2:00 | 2 | 0 | 1 | 4 | 22 | 97 | 119 | 34 | 5 | 0 | 0 | 0 | 0 | 284 |
| 3:00 | 0 | 0 | 0 | 0 | 4 | 75 | 104 | 25 | 13 | 1 | 0 | 0 | 1 | 223 |
| 4:00 | 5 | 0 | 0 | 1 | 8 | 65 | 115 | 38 | 12 | 1 | 0 | 0 | 0 | 245 |
| 5:00 | 0 | 0 | 0 | 0 | 9 | 43 | 74 | 27 | 2 | 3 | 1 | 0 | 0 | 159 |
| 6:00 | 1 | 0 | 0 | 0 | 2 | 42 | 63 | 18 | 1 | 0 | 0 | 0 | 0 | 127 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 30 | 45 | 13 | 3 | 0 | 1 | 0 | 0 | 95 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 23 | 47 | 7 | 1 | 0 | 1 | 0 | 0 | 80 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 19 | 22 | 6 | 2 | 1 | 0 | 0 | 0 | 51 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 10 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 10 |
| Total | 10 | 0 | 3 | 13 | 111 | 1241 | 1519 | 398 | 69 | 10 | 4 | 0 | 3 | 3381 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 15 | 23 | 5 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 16 | 44 | 8 | 1 | 0 | 0 | 0 | 0 | 71 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 35 | 64 | 22 | 3 | 1 | 0 | 0 | 0 | 126 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 29 | 70 | 20 | 5 | 1 | 0 | 0 | 0 | 126 |
| 9:00 | 0 | 0 | 0 | 3 | 6 | 75 | 111 | 33 | 2 | 0 | 0 | 0 | 0 | 230 |
| 10:00 | 2 | 0 | 3 | 0 | 11 | 120 | 110 | 33 | 2 | 0 | 0 | 0 | 0 | 281 |
| 11:00 | 1 | 0 | 0 | 0 | 6 | 131 | 129 | 26 | 2 | 1 | 0 | 0 | 0 | 296 |
| 12:00 PM | 0 | 0 | 0 | 4 | 13 | 81 | 126 | 32 | 4 | 2 | 0 | 0 | 0 | 262 |
| 1:00 | 0 | 0 | 1 | 0 | 11 | 85 | 125 | 22 | 2 | 0 | 0 | 0 | 0 | 246 |
| 2:00 | 0 | 0 | 0 | 0 | 4 | 62 | 119 | 29 | 4 | 1 | 0 | 0 | 0 | 219 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 49 | 90 | 21 | 4 | 2 | 0 | 0 | 0 | 168 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 36 | 73 | 22 | 5 | 0 | 0 | 0 | 0 | 136 |
| 5:00 | 0 | 0 | 0 | 3 | 5 | 51 | 53 | 7 | 2 | 1 | 0 | 0 | 0 | 122 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 26 | 40 | 8 | 5 | 0 | 0 | 0 | 0 | 84 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 22 | 38 | 16 | 1 | 1 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 17 | 16 | 8 | 1 | 2 | 0 | 0 | 0 | 46 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 20 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 3 | 0 | 4 | 10 | 78 | 879 | 1252 | 318 | 46 | 12 | 0 | 0 | 0 | 2602 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 21 | 32 | 4 | 1 | 0 | 0 | 0 | 0 | 62 |
| 6:00 | 0 | 0 | 0 | 0 | 11 | 159 | 92 | 10 | 2 | 0 | 0 | 0 | 0 | 274 |
| 7:00 | 0 | 0 | 0 | 0 | 23 | 169 | 188 | 39 | 0 | 0 | 0 | 0 | 0 | 419 |
| 8:00 | 1 | 0 | 0 | 0 | 23 | 163 | 154 | 23 | 3 | 0 | 0 | 0 | 0 | 367 |
| 9:00 | 0 | 0 | 0 | 0 | 22 | 174 | 125 | 18 | 0 | 1 | 0 | 0 | 0 | 340 |
| 10:00 | 3 | 0 | 0 | 1 | 7 | 111 | 130 | 30 | 3 | 0 | 0 | 0 | 0 | 285 |
| 11:00 | 0 | 0 | 0 | 0 | 15 | 139 | 117 | 23 | 1 | 0 | 0 | 0 | 0 | 295 |
| 12:00 PM | 2 | 0 | 8 | 2 | 15 | 139 | 121 | 26 | 2 | 0 | 0 | 0 | 0 | 315 |
| 1:00 | 3 | 0 | 1 | 6 | 9 | 121 | 151 | 31 | 2 | 0 | 0 | 0 | 0 | 324 |
| 2:00 | 0 | 0 | 0 | 0 | 8 | 73 | 127 | 27 | 3 | 0 | 0 | 0 | 0 | 238 |
| 3:00 | 0 | 0 | 0 | 5 | 0 | 69 | 108 | 28 | 4 | 0 | 0 | 0 | 0 | 214 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 67 | 95 | 31 | 1 | 0 | 0 | 0 | 0 | 197 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 60 | 56 | 21 | 5 | 0 | 0 | 0 | 0 | 145 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 18 | 55 | 19 | 2 | 0 | 0 | 0 | 0 | 94 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 19 | 25 | 8 | 6 | 1 | 0 | 0 | 0 | 61 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 16 | 28 | 11 | 1 | 1 | 0 | 0 | 0 | 58 |
| 9:00 | 0 | 0 | 0 | 1 | 0 | 14 | 10 | 4 | 2 | 1 | 0 | 0 | 0 | 32 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 16 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 9 | 0 | 9 | 15 | 146 | 1549 | 1627 | 364 | 40 | 4 | 0 | 0 | 0 | 3763 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 34 | 29 | 5 | 2 | 0 | 0 | 0 | 0 | 71 |
| 6:00 | 0 | 0 | 0 | 4 | 19 | 151 | 102 | 6 | 0 | 1 | 0 | 0 | 0 | 283 |
| 7:00 | 2 | 0 | 0 | 0 | 39 | 181 | 177 | 12 | 2 | 0 | 0 | 0 | 0 | 413 |
| 8:00 | 2 | 1 | 3 | 1 | 18 | 177 | 144 | 28 | 2 | 0 | 0 | 0 | 0 | 376 |
| 9:00 | 1 | 0 | 0 | 0 | 27 | 143 | 148 | 27 | 3 | 0 | 0 | 0 | 0 | 349 |
| 10:00 | 1 | 0 | 0 | 4 | 16 | 151 | 151 | 28 | 1 | 0 | 0 | 0 | 0 | 352 |
| 11:00 | 0 | 0 | 0 | 0 | 16 | 159 | 115 | 22 | 1 | 1 | 0 | 0 | 0 | 314 |
| 12:00 PM | 2 | 0 | 0 | 0 | 11 | 130 | 142 | 24 | 5 | 0 | 0 | 0 | 1 | 315 |
| 1:00 | 3 | 0 | 1 | 0 | 13 | 138 | 117 | 19 | 2 | 0 | 0 | 0 | 0 | 293 |
| 2:00 | 3 | 0 | 0 | 1 | 13 | 87 | 129 | 23 | 3 | 1 | 0 | 0 | 0 | 260 |
| 3:00 | 1 | 0 | 0 | 1 | 7 | 74 | 125 | 36 | 0 | 0 | 0 | 0 | 0 | 244 |
| 4:00 | 4 | 0 | 0 | 0 | 5 | 60 | 107 | 28 | 5 | 0 | 0 | 0 | 0 | 209 |
| 5:00 | 1 | 0 | 0 | 2 | 1 | 35 | 62 | 21 | 0 | 1 | 0 | 0 | 0 | 123 |
| 6:00 | 1 | 0 | 0 | 0 | 3 | 46 | 48 | 5 | 2 | 0 | 0 | 0 | 0 | 105 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 28 | 36 | 7 | 2 | 0 | 0 | 0 | 0 | 73 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 34 | 30 | 7 | 2 | 0 | 0 | 0 | 0 | 78 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 8 | 15 | 5 | 2 | 1 | 0 | 0 | 0 | 31 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 15 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 21 | 1 | 4 | 13 | 194 | 1654 | 1702 | 311 | 38 | 5 | 0 | 0 | 1 | 3944 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 31 | 42 | 5 | 1 | 0 | 0 | 0 | 0 | 80 |
| 6:00 | 0 | 0 | 0 | 3 | 21 | 144 | 99 | 10 | 1 | 0 | 0 | 0 | 0 | 278 |
| 7:00 | 1 | 0 | 0 | 6 | 26 | 215 | 174 | 29 | 2 | 0 | 0 | 0 | 0 | 453 |
| 8:00 | 1 | 0 | 0 | 2 | 23 | 167 | 149 | 24 | 0 | 0 | 0 | 0 | 0 | 366 |
| 9:00 | 1 | 0 | 0 | 0 | 7 | 178 | 194 | 31 | 4 | 0 | 0 | 0 | 0 | 415 |
| 10:00 | 0 | 0 | 0 | 7 | 26 | 146 | 162 | 21 | 0 | 0 | 0 | 0 | 0 | 362 |
| 11:00 | 0 | 0 | 0 | 2 | 44 | 186 | 108 | 15 | 1 | 0 | 0 | 0 | 0 | 356 |
| 12:00 PM | 1 | 0 | 0 | 0 | 11 | 112 | 115 | 19 | 0 | 0 | 0 | 0 | 0 | 258 |
| 1:00 | 2 | 0 | 0 | 4 | 28 | 134 | 129 | 15 | 2 | 0 | 0 | 1 | 0 | 315 |
| 2:00 | 7 | 0 | 0 | 1 | 11 | 94 | 128 | 21 | 2 | 1 | 0 | 0 | 0 | 265 |
| 3:00 | 0 | 0 | 0 | 6 | 13 | 84 | 129 | 16 | 4 | 1 | 0 | 0 | 0 | 253 |
| 4:00 | 4 | 0 | 5 | 3 | 21 | 70 | 91 | 28 | 0 | 0 | 0 | 0 | 0 | 222 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 62 | 73 | 25 | 4 | 0 | 0 | 0 | 0 | 165 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 39 | 52 | 18 | 2 | 1 | 0 | 0 | 0 | 118 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 40 | 49 | 12 | 1 | 0 | 0 | 0 | 0 | 103 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 24 | 32 | 8 | 2 | 0 | 0 | 0 | 0 | 66 |
| 9:00 | 1 | 0 | 0 | 0 | 3 | 9 | 19 | 6 | 2 | 0 | 0 | 0 | 0 | 40 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 21 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 18 | 0 | 5 | 34 | 243 | 1755 | 1773 | 308 | 29 | 4 | 1 | 1 | 0 | 4171 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 27 | 41 | 3 | 1 | 0 | 0 | 0 | 0 | 74 |
| 6:00 | 0 | 0 | 0 | 0 | 13 | 161 | 93 | 8 | 2 | 0 | 0 | 0 | 0 | 277 |
| 7:00 | 0 | 0 | 0 | 0 | 18 | 201 | 161 | 23 | 1 | 0 | 0 | 0 | 0 | 404 |
| 8:00 | 0 | 0 | 0 | 0 | 18 | 173 | 172 | 31 | 0 | 0 | 0 | 0 | 0 | 394 |
| 9:00 | 2 | 0 | 0 | 0 | 23 | 169 | 158 | 15 | 2 | 1 | 0 | 0 | 0 | 370 |
| 10:00 | 0 | 0 | 0 | 0 | 19 | 129 | 155 | 28 | 2 | 0 | 0 | 0 | 0 | 333 |
| 11:00 | 3 | 0 | 0 | 0 | 43 | 135 | 110 | 30 | 4 | 0 | 0 | 0 | 0 | 325 |
| 12:00 PM | 5 | 0 | 0 | 0 | 9 | 147 | 130 | 31 | 4 | 0 | 0 | 0 | 0 | 326 |
| 1:00 | 5 | 0 | 0 | 0 | 15 | 113 | 127 | 43 | 6 | 0 | 0 | 0 | 0 | 309 |
| 2:00 | 1 | 0 | 0 | 0 | 9 | 102 | 124 | 24 | 5 | 2 | 0 | 0 | 0 | 267 |
| 3:00 | 4 | 0 | 0 | 0 | 6 | 71 | 117 | 31 | 8 | 1 | 0 | 0 | 0 | 238 |
| 4:00 | 2 | 0 | 0 | 0 | 4 | 89 | 107 | 33 | 2 | 1 | 0 | 0 | 0 | 238 |
| 5:00 | 1 | 0 | 0 | 0 | 4 | 52 | 75 | 30 | 10 | 2 | 0 | 0 | 0 | 174 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 48 | 48 | 19 | 2 | 1 | 0 | 0 | 0 | 127 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 22 | 45 | 17 | 1 | 0 | 0 | 0 | 0 | 87 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 25 | 27 | 6 | 0 | 0 | 1 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 8 | 22 | 9 | 1 | 0 | 0 | 0 | 0 | 41 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 5 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 20 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 23 | 0 | 0 | 0 | 201 | 1696 | 1728 | 392 | 53 | 8 | 1 | 0 | 0 | 4102 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 20 | 46 | 9 | 0 | 1 | 0 | 0 | 0 | 77 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 125 | 114 | 17 | 0 | 0 | 0 | 0 | 0 | 264 |
| 7:00 | 0 | 0 | 0 | 0 | 22 | 184 | 187 | 31 | 2 | 0 | 0 | 0 | 0 | 426 |
| 8:00 | 1 | 0 | 0 | 0 | 35 | 175 | 141 | 36 | 5 | 0 | 0 | 0 | 0 | 393 |
| 9:00 | 0 | 0 | 0 | 0 | 27 | 175 | 159 | 41 | 4 | 1 | 0 | 0 | 0 | 407 |
| 10:00 | 0 | 0 | 0 | 0 | 14 | 132 | 117 | 40 | 9 | 0 | 0 | 0 | 0 | 312 |
| 11:00 | 2 | 0 | 0 | 0 | 15 | 123 | 157 | 32 | 5 | 1 | 0 | 0 | 0 | 335 |
| 12:00 PM | 0 | 0 | 0 | 2 | 28 | 113 | 157 | 36 | 9 | 3 | 0 | 1 | 0 | 349 |
| 1:00 | 3 | 0 | 0 | 0 | 13 | 120 | 148 | 32 | 4 | 1 | 0 | 0 | 0 | 321 |
| 2:00 | 2 | 0 | 0 | 0 | 5 | 70 | 149 | 46 | 4 | 1 | 0 | 0 | 0 | 277 |
| 3:00 | 0 | 0 | 0 | 0 | 3 | 59 | 97 | 40 | 8 | 2 | 0 | 0 | 0 | 209 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 42 | 86 | 37 | 6 | 2 | 1 | 0 | 0 | 176 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 30 | 50 | 26 | 3 | 2 | 0 | 0 | 0 | 113 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 27 | 32 | 14 | 3 | 1 | 0 | 0 | 0 | 85 |
| 7:00 | 0 | 0 | 1 | 1 | 10 | 47 | 68 | 22 | 4 | 2 | 0 | 0 | 0 | 155 |
| 8:00 | 0 | 0 | 0 | 5 | 13 | 78 | 58 | 13 | 3 | 0 | 0 | 0 | 0 | 170 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 31 | 48 | 8 | 2 | 1 | 0 | 0 | 0 | 93 |
| 10:00 | 0 | 0 | 2 | 1 | 2 | 12 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 35 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 9 |
| Total | 8 | 0 | 3 | 9 | 211 | 1577 | 1838 | 492 | 72 | 18 | 1 | 1 | 0 | 4230 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 23 | 32 | 0 | 1 | 0 | 0 | 0 | 0 | 57 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 61 | 48 | 11 | 2 | 0 | 1 | 0 | 0 | 128 |
| 7:00 | 0 | 0 | 0 | 1 | 15 | 50 | 80 | 31 | 4 | 0 | 0 | 0 | 0 | 181 |
| 8:00 | 0 | 0 | 1 | 6 | 20 | 90 | 99 | 25 | 7 | 2 | 0 | 0 | 0 | 250 |
| 9:00 | 0 | 0 | 0 | 1 | 11 | 96 | 124 | 39 | 6 | 0 | 0 | 0 | 0 | 277 |
| 10:00 | 0 | 0 | 0 | 1 | 14 | 133 | 116 | 25 | 2 | 0 | 0 | 0 | 0 | 291 |
| 11:00 | 1 | 0 | 0 | 4 | 18 | 121 | 145 | 45 | 5 | 1 | 0 | 0 | 0 | 340 |
| 12:00 PM | 0 | 0 | 0 | 3 | 11 | 87 | 104 | 51 | 5 | 0 | 0 | 0 | 0 | 261 |
| 1:00 | 0 | 0 | 0 | 0 | 7 | 92 | 131 | 34 | 7 | 1 | 0 | 0 | 0 | 272 |
| 2:00 | 2 | 0 | 0 | 1 | 1 | 60 | 142 | 59 | 7 | 1 | 1 | 0 | 0 | 274 |
| 3:00 | 1 | 0 | 0 | 0 | 7 | 51 | 164 | 47 | 6 | 3 | 0 | 0 | 0 | 279 |
| 4:00 | 1 | 0 | 0 | 0 | 10 | 84 | 137 | 44 | 13 | 4 | 0 | 0 | 0 | 293 |
| 5:00 | 0 | 0 | 2 | 2 | 2 | 28 | 105 | 42 | 10 | 0 | 0 | 0 | 0 | 191 |
| 6:00 | 2 | 0 | 0 | 0 | 2 | 43 | 82 | 30 | 6 | 1 | 0 | 0 | 0 | 166 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 15 | 40 | 25 | 9 | 0 | 1 | 0 | 1 | 94 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 11 | 36 | 17 | 2 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 22 | 15 | 6 | 2 | 0 | 1 | 0 | 0 | 46 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 24 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | 0 | 1 | 0 | 0 | 0 | 11 |
| Total | 7 | 0 | 3 | 20 | 129 | 1081 | 1623 | 547 | 95 | 16 | 4 | 0 | 1 | 3526 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 11 | 19 | 8 | 2 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 19 | 45 | 14 | 3 | 0 | 0 | 0 | 0 | 83 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 21 | 52 | 37 | 8 | 2 | 1 | 0 | 0 | 124 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 28 | 64 | 28 | 5 | 2 | 0 | 0 | 1 | 130 |
| 9:00 | 0 | 0 | 0 | 1 | 6 | 73 | 108 | 33 | 14 | 0 | 0 | 0 | 0 | 235 |
| 10:00 | 1 | 0 | 0 | 0 | 12 | 68 | 110 | 35 | 9 | 3 | 0 | 0 | 1 | 239 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 98 | 119 | 34 | 4 | 0 | 0 | 0 | 1 | 261 |
| 12:00 PM | 0 | 0 | 0 | 0 | 7 | 78 | 145 | 34 | 6 | 0 | 1 | 0 | 0 | 271 |
| 1:00 | 0 | 0 | 0 | 0 | 4 | 51 | 108 | 42 | 7 | 1 | 0 | 0 | 0 | 213 |
| 2:00 | 0 | 0 | 0 | 4 | 0 | 51 | 92 | 33 | 12 | 1 | 0 | 0 | 0 | 193 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 47 | 89 | 30 | 4 | 0 | 0 | 0 | 0 | 171 |
| 4:00 | 1 | 0 | 0 | 0 | 1 | 27 | 78 | 35 | 8 | 1 | 0 | 0 | 0 | 151 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 29 | 51 | 17 | 3 | 2 | 1 | 0 | 0 | 106 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 16 | 23 | 12 | 4 | 2 | 1 | 0 | 0 | 58 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 19 | 34 | 14 | 3 | 0 | 0 | 0 | 0 | 70 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 4 | 28 | 5 | 1 | 1 | 0 | 0 | 0 | 42 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 9 | 19 | 8 | 3 | 1 | 0 | 0 | 0 | 40 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 5 | 1 | 0 | 0 | 1 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 2 | 0 | 0 | 5 | 52 | 661 | 1201 | 431 | 99 | 17 | 4 | 1 | 3 | 2476 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Westbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 29 | 26 | 6 | 2 | 1 | 0 | 0 | 0 | 64 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 126 | 109 | 10 | 1 | 0 | 0 | 0 | 0 | 255 |
| 7:00 | 2 | 0 | 0 | 2 | 30 | 161 | 163 | 26 | 5 | 1 | 0 | 0 | 0 | 390 |
| 8:00 | 0 | 0 | 0 | 11 | 27 | 163 | 125 | 24 | 4 | 1 | 1 | 0 | 0 | 356 |
| 9:00 | 5 | 0 | 0 | 1 | 26 | 174 | 135 | 28 | 2 | 0 | 0 | 0 | 0 | 371 |
| 10:00 | 1 | 0 | 0 | 0 | 9 | 123 | 136 | 29 | 1 | 0 | 0 | 0 | 0 | 299 |
| 11:00 | 1 | 0 | 0 | 7 | 13 | 114 | 145 | 36 | 8 | 0 | 0 | 0 | 1 | 325 |
| 12:00 PM | 0 | 0 | 0 | 3 | 11 | 107 | 140 | 40 | 12 | 0 | 0 | 0 | 0 | 313 |
| 1:00 | 0 | 0 | 0 | 3 | 17 | 112 | 162 | 34 | 8 | 1 | 0 | 0 | 0 | 337 |
| 2:00 | 2 | 0 | 0 | 0 | 8 | 74 | 114 | 37 | 4 | 1 | 0 | 0 | 0 | 240 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 67 | 129 | 58 | 9 | 1 | 0 | 0 | 0 | 264 |
| 4:00 | 0 | 0 | 0 | 1 | 9 | 37 | 100 | 54 | 11 | 2 | 0 | 0 | 0 | 214 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 29 | 77 | 41 | 5 | 1 | 0 | 0 | 0 | 154 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 15 | 45 | 23 | 5 | 1 | 0 | 0 | 0 | 90 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 8 | 31 | 13 | 5 | 1 | 0 | 0 | 0 | 58 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 8 | 23 | 16 | 2 | 0 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 8 | 14 | 13 | 2 | 0 | 0 | 0 | 0 | 37 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 18 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 7 |
| Total | 11 | 0 | 0 | 28 | 162 | 1369 | 1693 | 505 | 88 | 11 | 1 | 0 | 1 | 3869 |
| Grand Total | 282 | 20 | 102 | 367 | 3068 | 27991 | 32548 | 7848 | 1138 | 183 | 30 | 10 | 17 | 73604 |

| Stats | | |
|---|---|---|
| | Percentile | 15th | 50th | 85th | 95th |
| | Speed | 36 | 40 | 44 | 46 |
| | Mean Speed (Average) | 41.2 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 60536 | | | |
| | Percent in Pace | 82.0% | | | |
| | Number > 35 MPH | 69765 | | | |
| | Percent > 35 MPH | 94.8% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 16 |
| 5:00 | 1 | 0 | 0 | 0 | 3 | 44 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 103 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 159 | 151 | 27 | 0 | 0 | 0 | 0 | 0 | 345 |
| 7:00 | 4 | 0 | 0 | 0 | 28 | 255 | 252 | 44 | 1 | 0 | 0 | 1 | 0 | 585 |
| 8:00 | 0 | 0 | 0 | 0 | 11 | 264 | 250 | 30 | 2 | 0 | 0 | 0 | 0 | 557 |
| 9:00 | 0 | 1 | 0 | 0 | 45 | 274 | 252 | 44 | 2 | 1 | 0 | 0 | 0 | 619 |
| 10:00 | 11 | 0 | 0 | 1 | 49 | 282 | 229 | 41 | 2 | 0 | 0 | 0 | 0 | 615 |
| 11:00 | 3 | 0 | 0 | 1 | 59 | 373 | 233 | 37 | 5 | 0 | 0 | 0 | 0 | 711 |
| 12:00 PM | 8 | 0 | 0 | 5 | 47 | 312 | 213 | 42 | 3 | 0 | 0 | 1 | 0 | 631 |
| 1:00 | 0 | 0 | 0 | 2 | 98 | 332 | 239 | 45 | 1 | 1 | 1 | 0 | 0 | 719 |
| 2:00 | 1 | 0 | 0 | 0 | 68 | 377 | 218 | 37 | 3 | 1 | 0 | 0 | 0 | 705 |
| 3:00 | 0 | 0 | 1 | 11 | 87 | 335 | 197 | 47 | 2 | 0 | 0 | 0 | 0 | 680 |
| 4:00 | 2 | 0 | 0 | 12 | 63 | 305 | 200 | 41 | 2 | 0 | 0 | 0 | 0 | 625 |
| 5:00 | 2 | 0 | 0 | 0 | 67 | 229 | 167 | 26 | 5 | 1 | 0 | 0 | 0 | 497 |
| 6:00 | 0 | 0 | 1 | 4 | 38 | 157 | 127 | 18 | 3 | 0 | 0 | 0 | 0 | 348 |
| 7:00 | 0 | 0 | 0 | 0 | 8 | 61 | 72 | 25 | 3 | 1 | 0 | 0 | 0 | 170 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 61 | 63 | 33 | 6 | 1 | 0 | 0 | 0 | 171 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 55 | 62 | 7 | 2 | 0 | 0 | 0 | 0 | 128 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 43 | 36 | 13 | 3 | 0 | 0 | 0 | 0 | 99 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 16 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 34 |
| Total | 32 | 1 | 2 | 36 | 697 | 3946 | 3026 | 582 | 46 | 6 | 1 | 2 | 0 | 8377 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 34 | 34 | 9 | 1 | 1 | 0 | 0 | 0 | 81 |
| 6:00 | 0 | 0 | 0 | 0 | 12 | 179 | 120 | 14 | 0 | 0 | 0 | 0 | 0 | 325 |
| 7:00 | 0 | 0 | 0 | 1 | 49 | 265 | 246 | 38 | 3 | 0 | 1 | 0 | 0 | 603 |
| 8:00 | 0 | 0 | 0 | 3 | 16 | 255 | 270 | 49 | 1 | 2 | 0 | 1 | 0 | 597 |
| 9:00 | 1 | 0 | 0 | 0 | 37 | 284 | 287 | 42 | 2 | 0 | 0 | 0 | 0 | 653 |
| 10:00 | 4 | 0 | 0 | 4 | 44 | 343 | 245 | 24 | 5 | 0 | 0 | 0 | 0 | 669 |
| 11:00 | 5 | 0 | 3 | 5 | 54 | 332 | 235 | 36 | 3 | 0 | 0 | 0 | 0 | 673 |
| 12:00 PM | 1 | 0 | 2 | 4 | 49 | 326 | 248 | 32 | 5 | 0 | 0 | 0 | 0 | 667 |
| 1:00 | 5 | 0 | 0 | 2 | 65 | 251 | 255 | 46 | 2 | 0 | 0 | 0 | 0 | 626 |
| 2:00 | 6 | 1 | 2 | 5 | 119 | 360 | 191 | 18 | 3 | 1 | 0 | 0 | 0 | 706 |
| 3:00 | 2 | 0 | 0 | 4 | 67 | 346 | 192 | 36 | 2 | 0 | 0 | 0 | 0 | 649 |
| 4:00 | 1 | 3 | 0 | 0 | 91 | 317 | 152 | 15 | 6 | 1 | 1 | 0 | 1 | 588 |
| 5:00 | 3 | 0 | 0 | 0 | 72 | 215 | 149 | 40 | 0 | 0 | 0 | 0 | 0 | 479 |
| 6:00 | 0 | 0 | 0 | 6 | 40 | 173 | 92 | 12 | 1 | 2 | 0 | 0 | 0 | 326 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 58 | 106 | 12 | 3 | 1 | 0 | 0 | 0 | 183 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 47 | 38 | 9 | 3 | 0 | 0 | 0 | 0 | 104 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 62 | 41 | 19 | 3 | 0 | 0 | 0 | 0 | 134 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 26 | 29 | 12 | 1 | 0 | 0 | 0 | 0 | 71 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 11 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | 28 | 4 | 7 | 34 | 741 | 3899 | 2961 | 475 | 46 | 8 | 2 | 1 | 1 | 8207 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 13 | 3 | 1 | 0 | 0 | 0 | 0 | 21 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 27 | 45 | 9 | 0 | 1 | 0 | 0 | 0 | 86 |
| 6:00 | 0 | 0 | 0 | 3 | 14 | 157 | 116 | 14 | 1 | 0 | 0 | 0 | 0 | 305 |
| 7:00 | 0 | 0 | 0 | 4 | 31 | 273 | 226 | 31 | 4 | 0 | 0 | 0 | 0 | 569 |
| 8:00 | 0 | 0 | 0 | 0 | 40 | 255 | 207 | 36 | 3 | 0 | 0 | 0 | 0 | 541 |
| 9:00 | 1 | 0 | 0 | 0 | 34 | 260 | 224 | 18 | 3 | 0 | 0 | 0 | 0 | 540 |
| 10:00 | 4 | 0 | 0 | 4 | 52 | 259 | 216 | 44 | 2 | 0 | 0 | 0 | 0 | 581 |
| 11:00 | 1 | 0 | 5 | 5 | 58 | 350 | 239 | 41 | 3 | 0 | 0 | 0 | 0 | 702 |
| 12:00 PM | 3 | 0 | 0 | 9 | 53 | 353 | 238 | 29 | 2 | 0 | 0 | 0 | 0 | 687 |
| 1:00 | 5 | 0 | 0 | 4 | 58 | 350 | 193 | 23 | 0 | 1 | 0 | 0 | 0 | 634 |
| 2:00 | 2 | 0 | 0 | 1 | 77 | 350 | 214 | 42 | 3 | 0 | 0 | 0 | 0 | 689 |
| 3:00 | 0 | 0 | 7 | 16 | 107 | 320 | 163 | 49 | 3 | 0 | 1 | 0 | 0 | 666 |
| 4:00 | 0 | 0 | 0 | 16 | 44 | 241 | 247 | 49 | 7 | 2 | 0 | 0 | 1 | 607 |
| 5:00 | 3 | 0 | 0 | 1 | 42 | 238 | 145 | 32 | 3 | 0 | 0 | 0 | 0 | 464 |
| 6:00 | 0 | 0 | 0 | 0 | 19 | 139 | 137 | 26 | 9 | 0 | 0 | 0 | 0 | 330 |
| 7:00 | 0 | 0 | 0 | 0 | 14 | 59 | 115 | 14 | 6 | 3 | 0 | 0 | 0 | 211 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 40 | 58 | 20 | 7 | 0 | 0 | 0 | 0 | 130 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 74 | 35 | 14 | 4 | 0 | 0 | 0 | 0 | 138 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 38 | 28 | 10 | 6 | 0 | 0 | 0 | 0 | 87 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 10 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 42 |
| Total | 19 | 0 | 12 | 63 | 671 | 3803 | 2889 | 512 | 68 | 7 | 1 | 0 | 1 | 8046 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 8 | 19 | 1 | 6 | 1 | 1 | 0 | 0 | 36 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 3 | 3 | 0 | 0 | 0 | 0 | 15 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 2 | 0 | 1 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 23 | 34 | 11 | 1 | 0 | 0 | 0 | 0 | 70 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 73 | 72 | 16 | 2 | 0 | 1 | 0 | 0 | 171 |
| 7:00 | 0 | 0 | 0 | 0 | 15 | 124 | 133 | 34 | 7 | 0 | 1 | 0 | 0 | 314 |
| 8:00 | 2 | 0 | 0 | 0 | 11 | 170 | 157 | 34 | 3 | 0 | 0 | 0 | 0 | 377 |
| 9:00 | 2 | 0 | 0 | 0 | 28 | 210 | 202 | 45 | 1 | 0 | 0 | 0 | 0 | 488 |
| 10:00 | 6 | 6 | 3 | 6 | 75 | 250 | 155 | 39 | 1 | 1 | 1 | 0 | 0 | 543 |
| 11:00 | 3 | 0 | 1 | 2 | 44 | 260 | 208 | 39 | 2 | 2 | 0 | 0 | 1 | 562 |
| 12:00 PM | 3 | 0 | 0 | 0 | 31 | 266 | 221 | 41 | 4 | 4 | 0 | 0 | 0 | 570 |
| 1:00 | 5 | 0 | 3 | 7 | 43 | 255 | 176 | 46 | 2 | 2 | 0 | 0 | 1 | 540 |
| 2:00 | 1 | 2 | 1 | 1 | 36 | 285 | 214 | 47 | 6 | 0 | 1 | 0 | 0 | 594 |
| 3:00 | 1 | 0 | 0 | 2 | 43 | 249 | 207 | 61 | 5 | 2 | 0 | 0 | 0 | 570 |
| 4:00 | 3 | 0 | 3 | 2 | 32 | 218 | 215 | 53 | 16 | 0 | 0 | 0 | 0 | 542 |
| 5:00 | 1 | 0 | 0 | 0 | 8 | 234 | 196 | 35 | 12 | 2 | 1 | 0 | 0 | 489 |
| 6:00 | 3 | 0 | 0 | 15 | 27 | 162 | 129 | 29 | 8 | 1 | 0 | 0 | 0 | 374 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 90 | 102 | 21 | 2 | 2 | 0 | 0 | 0 | 222 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 78 | 91 | 23 | 3 | 1 | 0 | 1 | 0 | 199 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 76 | 37 | 12 | 2 | 1 | 0 | 0 | 0 | 139 |
| 10:00 | 0 | 0 | 0 | 0 | 9 | 41 | 37 | 6 | 2 | 0 | 0 | 0 | 0 | 95 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 21 | 19 | 6 | 1 | 0 | 1 | 0 | 0 | 50 |
| Total | 30 | 8 | 11 | 35 | 431 | 3102 | 2643 | 606 | 93 | 20 | 7 | 1 | 2 | 6989 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 4 | 12 | 6 | 5 | 1 | 0 | 0 | 0 | 30 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 1 | 0 | 0 | 0 | 1 | 12 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 24 | 32 | 6 | 2 | 0 | 0 | 0 | 0 | 65 |
| 6:00 | 1 | 0 | 0 | 0 | 9 | 39 | 46 | 12 | 3 | 0 | 0 | 0 | 0 | 110 |
| 7:00 | 0 | 0 | 1 | 0 | 1 | 61 | 76 | 29 | 4 | 0 | 0 | 0 | 0 | 172 |
| 8:00 | 0 | 0 | 6 | 0 | 9 | 97 | 134 | 42 | 5 | 1 | 0 | 0 | 0 | 294 |
| 9:00 | 0 | 0 | 3 | 6 | 17 | 231 | 191 | 34 | 6 | 1 | 1 | 0 | 0 | 490 |
| 10:00 | 3 | 0 | 0 | 1 | 20 | 288 | 226 | 42 | 3 | 2 | 0 | 0 | 0 | 585 |
| 11:00 | 6 | 0 | 5 | 0 | 42 | 260 | 221 | 46 | 5 | 0 | 0 | 0 | 0 | 585 |
| 12:00 PM | 1 | 0 | 0 | 8 | 32 | 264 | 191 | 26 | 4 | 0 | 0 | 0 | 1 | 527 |
| 1:00 | 4 | 0 | 0 | 0 | 34 | 218 | 213 | 67 | 11 | 0 | 0 | 0 | 0 | 547 |
| 2:00 | 1 | 0 | 0 | 1 | 19 | 219 | 178 | 43 | 11 | 0 | 0 | 0 | 0 | 472 |
| 3:00 | 3 | 0 | 0 | 2 | 22 | 149 | 205 | 56 | 12 | 0 | 1 | 0 | 0 | 450 |
| 4:00 | 0 | 0 | 1 | 7 | 42 | 211 | 134 | 25 | 9 | 0 | 0 | 0 | 0 | 429 |
| 5:00 | 3 | 0 | 1 | 2 | 34 | 186 | 106 | 28 | 4 | 0 | 0 | 0 | 0 | 364 |
| 6:00 | 0 | 0 | 0 | 5 | 48 | 133 | 89 | 26 | 5 | 0 | 0 | 0 | 0 | 306 |
| 7:00 | 0 | 0 | 0 | 0 | 8 | 60 | 61 | 26 | 1 | 1 | 0 | 0 | 0 | 157 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 49 | 58 | 8 | 1 | 0 | 0 | 0 | 0 | 126 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 57 | 45 | 8 | 1 | 0 | 0 | 0 | 0 | 116 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 36 | 28 | 7 | 3 | 1 | 0 | 0 | 0 | 82 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 6 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 22 | 0 | 17 | 33 | 364 | 2604 | 2270 | 546 | 97 | 8 | 2 | 0 | 2 | 5965 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 6 | 3 | 1 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 7 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 22 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 36 | 33 | 8 | 1 | 0 | 0 | 0 | 0 | 81 |
| 6:00 | 0 | 0 | 0 | 0 | 20 | 126 | 105 | 11 | 0 | 0 | 0 | 0 | 0 | 262 |
| 7:00 | 1 | 0 | 0 | 2 | 13 | 202 | 225 | 27 | 6 | 0 | 0 | 0 | 0 | 476 |
| 8:00 | 2 | 0 | 0 | 4 | 33 | 287 | 217 | 25 | 1 | 0 | 0 | 0 | 0 | 569 |
| 9:00 | 1 | 0 | 5 | 13 | 50 | 309 | 215 | 41 | 1 | 1 | 0 | 0 | 0 | 636 |
| 10:00 | 1 | 0 | 0 | 7 | 64 | 379 | 184 | 30 | 2 | 0 | 0 | 0 | 0 | 667 |
| 11:00 | 1 | 0 | 0 | 8 | 80 | 364 | 235 | 33 | 3 | 2 | 0 | 0 | 0 | 726 |
| 12:00 PM | 5 | 0 | 0 | 11 | 60 | 315 | 231 | 31 | 4 | 1 | 0 | 0 | 0 | 658 |
| 1:00 | 4 | 0 | 5 | 6 | 62 | 292 | 219 | 52 | 10 | 0 | 0 | 0 | 0 | 650 |
| 2:00 | 4 | 0 | 1 | 6 | 48 | 329 | 198 | 45 | 3 | 1 | 0 | 0 | 0 | 635 |
| 3:00 | 3 | 0 | 0 | 0 | 73 | 375 | 234 | 29 | 1 | 0 | 0 | 0 | 0 | 715 |
| 4:00 | 2 | 0 | 2 | 4 | 36 | 284 | 215 | 50 | 6 | 3 | 0 | 0 | 0 | 602 |
| 5:00 | 3 | 0 | 0 | 2 | 52 | 266 | 171 | 33 | 3 | 0 | 0 | 0 | 0 | 530 |
| 6:00 | 0 | 0 | 0 | 3 | 46 | 196 | 115 | 27 | 3 | 0 | 0 | 0 | 0 | 390 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 66 | 113 | 29 | 5 | 0 | 0 | 0 | 0 | 222 |
| 8:00 | 0 | 0 | 0 | 1 | 7 | 74 | 63 | 21 | 3 | 0 | 1 | 1 | 0 | 171 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 48 | 31 | 10 | 0 | 0 | 0 | 0 | 0 | 91 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 45 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 92 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 16 | 24 | 3 | 1 | 2 | 1 | 1 | 0 | 48 |
| Total | 27 | 0 | 13 | 67 | 672 | 4022 | 2881 | 519 | 57 | 11 | 2 | 2 | 0 | 8273 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 8 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 26 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 9 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 1 | 2 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 36 | 47 | 8 | 1 | 0 | 0 | 0 | 0 | 98 |
| 6:00 | 0 | 0 | 0 | 3 | 16 | 180 | 86 | 7 | 2 | 0 | 0 | 0 | 0 | 294 |
| 7:00 | 1 | 0 | 0 | 1 | 23 | 204 | 216 | 50 | 5 | 1 | 0 | 0 | 0 | 501 |
| 8:00 | 1 | 0 | 0 | 0 | 26 | 290 | 260 | 59 | 2 | 1 | 0 | 0 | 0 | 639 |
| 9:00 | 4 | 0 | 0 | 0 | 34 | 381 | 231 | 30 | 4 | 1 | 0 | 0 | 0 | 685 |
| 10:00 | 5 | 0 | 0 | 1 | 78 | 349 | 262 | 37 | 2 | 1 | 0 | 0 | 0 | 735 |
| 11:00 | 7 | 0 | 2 | 4 | 58 | 362 | 298 | 44 | 1 | 1 | 0 | 1 | 0 | 778 |
| 12:00 PM | 13 | 0 | 0 | 2 | 66 | 375 | 289 | 29 | 1 | 0 | 0 | 0 | 0 | 775 |
| 1:00 | 1 | 0 | 1 | 14 | 98 | 334 | 223 | 24 | 7 | 1 | 0 | 0 | 0 | 703 |
| 2:00 | 3 | 0 | 1 | 1 | 62 | 352 | 216 | 36 | 1 | 0 | 0 | 0 | 0 | 672 |
| 3:00 | 5 | 2 | 1 | 5 | 74 | 390 | 205 | 32 | 3 | 0 | 0 | 0 | 0 | 717 |
| 4:00 | 5 | 0 | 3 | 6 | 98 | 317 | 183 | 33 | 7 | 1 | 0 | 0 | 0 | 653 |
| 5:00 | 1 | 0 | 0 | 6 | 58 | 242 | 189 | 38 | 2 | 1 | 0 | 0 | 0 | 537 |
| 6:00 | 0 | 0 | 0 | 8 | 44 | 180 | 144 | 31 | 2 | 1 | 0 | 0 | 0 | 410 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 97 | 80 | 24 | 2 | 1 | 0 | 0 | 0 | 213 |
| 8:00 | 1 | 0 | 0 | 0 | 4 | 39 | 70 | 22 | 6 | 1 | 0 | 0 | 0 | 143 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 53 | 48 | 19 | 6 | 0 | 0 | 0 | 0 | 133 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 60 | 32 | 6 | 5 | 0 | 0 | 0 | 0 | 105 |
| 11:00 | 0 | 0 | 1 | 6 | 11 | 12 | 10 | 4 | 2 | 0 | 0 | 0 | 0 | 46 |
| Total | 47 | 2 | 9 | 58 | 775 | 4272 | 3119 | 542 | 64 | 11 | 0 | 1 | 0 | 8900 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 4 | 2 | 1 | 0 | 0 | 0 | 18 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 1 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 13 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 37 | 48 | 7 | 0 | 0 | 0 | 0 | 0 | 93 |
| 6:00 | 0 | 0 | 0 | 0 | 10 | 108 | 121 | 13 | 2 | 0 | 0 | 0 | 0 | 254 |
| 7:00 | 0 | 0 | 12 | 3 | 20 | 210 | 198 | 36 | 1 | 0 | 0 | 0 | 0 | 480 |
| 8:00 | 5 | 0 | 0 | 0 | 20 | 272 | 206 | 42 | 1 | 1 | 1 | 0 | 0 | 548 |
| 9:00 | 2 | 0 | 0 | 2 | 41 | 257 | 247 | 47 | 3 | 0 | 0 | 0 | 0 | 599 |
| 10:00 | 3 | 0 | 0 | 2 | 75 | 295 | 219 | 46 | 2 | 0 | 2 | 0 | 0 | 644 |
| 11:00 | 9 | 0 | 0 | 0 | 62 | 327 | 226 | 30 | 6 | 0 | 0 | 0 | 0 | 660 |
| 12:00 PM | 4 | 1 | 4 | 7 | 57 | 328 | 259 | 37 | 7 | 1 | 0 | 0 | 0 | 705 |
| 1:00 | 2 | 0 | 7 | 2 | 45 | 334 | 233 | 52 | 4 | 1 | 0 | 0 | 0 | 680 |
| 2:00 | 1 | 0 | 0 | 8 | 47 | 290 | 257 | 37 | 7 | 0 | 0 | 0 | 0 | 647 |
| 3:00 | 2 | 0 | 4 | 31 | 81 | 267 | 241 | 64 | 6 | 5 | 0 | 0 | 0 | 701 |
| 4:00 | 13 | 0 | 0 | 1 | 41 | 251 | 220 | 46 | 7 | 3 | 0 | 0 | 1 | 583 |
| 5:00 | 0 | 0 | 0 | 0 | 45 | 217 | 166 | 31 | 7 | 1 | 1 | 0 | 0 | 468 |
| 6:00 | 1 | 0 | 3 | 8 | 27 | 163 | 139 | 17 | 1 | 2 | 0 | 0 | 0 | 361 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 78 | 81 | 25 | 7 | 2 | 1 | 0 | 0 | 199 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 70 | 63 | 22 | 5 | 0 | 1 | 0 | 0 | 166 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 61 | 50 | 13 | 7 | 0 | 2 | 0 | 0 | 138 |
| 10:00 | 0 | 0 | 0 | 1 | 8 | 40 | 52 | 11 | 3 | 3 | 0 | 1 | 0 | 119 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 20 | 21 | 2 | 1 | 1 | 0 | 0 | 0 | 50 |
| Total | 42 | 1 | 30 | 65 | 603 | 3633 | 3075 | 586 | 84 | 22 | 8 | 1 | 1 | 8151 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 8 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 20 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 3 | 2 | 1 | 0 | 1 | 0 | 16 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 3 | 2 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 16 | 30 | 5 | 5 | 1 | 0 | 0 | 0 | 58 |
| 6:00 | 0 | 0 | 1 | 1 | 3 | 61 | 44 | 18 | 3 | 0 | 0 | 0 | 0 | 131 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 50 | 88 | 21 | 7 | 1 | 0 | 0 | 0 | 168 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 81 | 73 | 33 | 6 | 1 | 1 | 0 | 0 | 198 |
| 9:00 | 2 | 0 | 0 | 0 | 8 | 109 | 127 | 43 | 6 | 1 | 0 | 0 | 1 | 297 |
| 10:00 | 0 | 0 | 0 | 0 | 19 | 167 | 131 | 37 | 1 | 0 | 0 | 0 | 1 | 356 |
| 11:00 | 4 | 0 | 1 | 5 | 20 | 182 | 149 | 42 | 5 | 1 | 0 | 0 | 0 | 409 |
| 12:00 PM | 0 | 0 | 0 | 2 | 18 | 150 | 157 | 50 | 6 | 1 | 0 | 0 | 0 | 384 |
| 1:00 | 1 | 0 | 0 | 3 | 24 | 130 | 128 | 39 | 6 | 1 | 0 | 0 | 0 | 332 |
| 2:00 | 1 | 0 | 0 | 2 | 23 | 190 | 171 | 36 | 6 | 2 | 0 | 0 | 0 | 431 |
| 3:00 | 0 | 0 | 0 | 0 | 31 | 162 | 112 | 35 | 5 | 0 | 0 | 0 | 0 | 345 |
| 4:00 | 2 | 0 | 1 | 0 | 18 | 107 | 136 | 42 | 6 | 1 | 0 | 0 | 0 | 313 |
| 5:00 | 0 | 0 | 0 | 1 | 23 | 102 | 97 | 18 | 1 | 0 | 0 | 0 | 0 | 242 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 87 | 91 | 28 | 5 | 0 | 0 | 0 | 0 | 218 |
| 7:00 | 0 | 0 | 1 | 0 | 1 | 31 | 68 | 13 | 1 | 1 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 41 | 60 | 10 | 0 | 0 | 0 | 0 | 0 | 113 |
| 9:00 | 0 | 0 | 0 | 1 | 1 | 31 | 39 | 15 | 4 | 1 | 0 | 1 | 0 | 93 |
| 10:00 | 0 | 0 | 0 | 1 | 10 | 29 | 11 | 7 | 4 | 0 | 0 | 0 | 0 | 62 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 11 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 26 |
| Total | 10 | 0 | 4 | 17 | 218 | 1757 | 1739 | 511 | 84 | 13 | 1 | 2 | 2 | 4358 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 17 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 29 | 36 | 15 | 2 | 1 | 0 | 0 | 0 | 83 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 67 | 78 | 13 | 2 | 0 | 0 | 0 | 0 | 168 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 96 | 121 | 35 | 7 | 0 | 0 | 0 | 0 | 265 |
| 8:00 | 3 | 0 | 2 | 2 | 19 | 155 | 131 | 39 | 5 | 1 | 0 | 0 | 0 | 357 |
| 9:00 | 1 | 1 | 0 | 0 | 12 | 184 | 212 | 67 | 8 | 0 | 0 | 0 | 0 | 485 |
| 10:00 | 2 | 0 | 1 | 12 | 24 | 254 | 171 | 51 | 7 | 0 | 0 | 1 | 0 | 523 |
| 11:00 | 2 | 0 | 0 | 1 | 36 | 310 | 225 | 57 | 4 | 0 | 0 | 0 | 0 | 635 |
| 12:00 PM | 3 | 0 | 5 | 13 | 23 | 254 | 280 | 52 | 7 | 0 | 0 | 0 | 0 | 637 |
| 1:00 | 0 | 0 | 0 | 8 | 31 | 279 | 252 | 52 | 4 | 2 | 0 | 0 | 0 | 628 |
| 2:00 | 5 | 0 | 0 | 0 | 36 | 324 | 205 | 36 | 5 | 1 | 0 | 1 | 0 | 613 |
| 3:00 | 5 | 0 | 0 | 3 | 46 | 258 | 219 | 55 | 4 | 0 | 1 | 0 | 0 | 591 |
| 4:00 | 1 | 0 | 4 | 3 | 50 | 275 | 245 | 43 | 2 | 1 | 0 | 0 | 0 | 624 |
| 5:00 | 5 | 0 | 4 | 6 | 13 | 179 | 183 | 47 | 8 | 0 | 0 | 0 | 0 | 445 |
| 6:00 | 36 | 38 | 41 | 29 | 54 | 88 | 74 | 21 | 5 | 2 | 0 | 0 | 0 | 388 |
| 7:00 | 9 | 6 | 34 | 57 | 74 | 68 | 26 | 10 | 1 | 0 | 0 | 0 | 0 | 285 |
| 8:00 | 0 | 0 | 1 | 0 | 5 | 75 | 97 | 18 | 8 | 0 | 0 | 0 | 0 | 204 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 83 | 73 | 14 | 3 | 1 | 0 | 0 | 0 | 185 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 59 | 49 | 13 | 4 | 0 | 0 | 0 | 1 | 136 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 19 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 50 |
| Total | 72 | 45 | 92 | 135 | 459 | 3063 | 2716 | 647 | 87 | 9 | 1 | 2 | 1 | 7329 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 3 | 2 | 0 | 0 | 0 | 0 | 22 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 15 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 15 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 7 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 22 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 21 | 35 | 9 | 3 | 1 | 0 | 0 | 0 | 71 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 67 | 30 | 9 | 3 | 1 | 0 | 0 | 1 | 116 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 57 | 142 | 34 | 5 | 1 | 0 | 0 | 0 | 241 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 138 | 131 | 36 | 9 | 1 | 0 | 0 | 0 | 318 |
| 9:00 | 0 | 0 | 1 | 1 | 17 | 243 | 198 | 49 | 4 | 0 | 0 | 0 | 0 | 513 |
| 10:00 | 2 | 0 | 0 | 7 | 37 | 245 | 235 | 46 | 3 | 0 | 0 | 0 | 0 | 575 |
| 11:00 | 4 | 0 | 2 | 7 | 24 | 279 | 256 | 51 | 6 | 0 | 0 | 0 | 1 | 630 |
| 12:00 PM | 1 | 0 | 9 | 6 | 43 | 284 | 226 | 45 | 6 | 1 | 0 | 0 | 0 | 621 |
| 1:00 | 2 | 0 | 0 | 0 | 14 | 244 | 238 | 49 | 3 | 0 | 0 | 0 | 0 | 550 |
| 2:00 | 2 | 0 | 1 | 7 | 46 | 279 | 217 | 41 | 6 | 1 | 0 | 0 | 0 | 600 |
| 3:00 | 0 | 0 | 0 | 0 | 42 | 282 | 184 | 37 | 13 | 1 | 0 | 0 | 1 | 560 |
| 4:00 | 5 | 0 | 0 | 1 | 57 | 220 | 239 | 46 | 13 | 1 | 0 | 0 | 1 | 583 |
| 5:00 | 0 | 0 | 0 | 0 | 82 | 213 | 179 | 39 | 4 | 3 | 1 | 0 | 0 | 521 |
| 6:00 | 1 | 0 | 0 | 0 | 17 | 171 | 156 | 34 | 4 | 1 | 0 | 0 | 0 | 384 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 78 | 90 | 29 | 4 | 0 | 1 | 0 | 0 | 211 |
| 8:00 | 0 | 0 | 0 | 1 | 7 | 46 | 80 | 24 | 3 | 0 | 2 | 0 | 0 | 163 |
| 9:00 | 0 | 0 | 0 | 0 | 18 | 69 | 60 | 17 | 5 | 1 | 0 | 0 | 0 | 170 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 43 | 37 | 11 | 0 | 0 | 0 | 0 | 0 | 93 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 15 | 17 | 0 | 1 | 0 | 1 | 0 | 0 | 37 |
| Total | 17 | 0 | 13 | 30 | 432 | 3019 | 2786 | 613 | 100 | 16 | 5 | 0 | 4 | 7035 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 3 | 3 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 18 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 24 | 27 | 7 | 1 | 0 | 0 | 0 | 0 | 63 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 30 | 57 | 12 | 2 | 0 | 0 | 0 | 0 | 105 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 67 | 92 | 25 | 4 | 2 | 0 | 0 | 0 | 191 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 92 | 108 | 38 | 8 | 1 | 0 | 0 | 0 | 248 |
| 9:00 | 0 | 1 | 1 | 3 | 8 | 157 | 208 | 44 | 3 | 0 | 0 | 0 | 0 | 425 |
| 10:00 | 3 | 0 | 3 | 0 | 28 | 236 | 206 | 43 | 3 | 1 | 0 | 0 | 0 | 523 |
| 11:00 | 2 | 0 | 0 | 6 | 24 | 255 | 218 | 36 | 5 | 1 | 0 | 0 | 0 | 547 |
| 12:00 PM | 0 | 0 | 0 | 4 | 24 | 175 | 222 | 55 | 4 | 2 | 0 | 0 | 0 | 486 |
| 1:00 | 0 | 0 | 1 | 0 | 22 | 175 | 211 | 40 | 5 | 3 | 0 | 0 | 0 | 457 |
| 2:00 | 0 | 0 | 0 | 3 | 14 | 190 | 212 | 39 | 5 | 1 | 0 | 0 | 0 | 464 |
| 3:00 | 0 | 0 | 0 | 0 | 20 | 183 | 183 | 35 | 8 | 2 | 0 | 0 | 0 | 431 |
| 4:00 | 0 | 0 | 0 | 0 | 11 | 169 | 166 | 44 | 9 | 1 | 0 | 0 | 0 | 400 |
| 5:00 | 0 | 0 | 0 | 4 | 35 | 189 | 163 | 18 | 4 | 3 | 0 | 0 | 0 | 416 |
| 6:00 | 0 | 0 | 0 | 1 | 18 | 98 | 91 | 31 | 6 | 1 | 0 | 0 | 0 | 246 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 50 | 73 | 22 | 3 | 2 | 0 | 0 | 0 | 157 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 39 | 37 | 20 | 4 | 2 | 0 | 0 | 0 | 105 |
| 9:00 | 0 | 0 | 1 | 1 | 5 | 33 | 23 | 14 | 2 | 0 | 0 | 0 | 0 | 79 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 21 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 8 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 5 | 1 | 6 | 22 | 239 | 2208 | 2353 | 534 | 79 | 22 | 0 | 0 | 0 | 5469 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 6 | 27 | 46 | 7 | 2 | 0 | 0 | 0 | 0 | 88 |
| 6:00 | 0 | 0 | 0 | 0 | 15 | 168 | 115 | 11 | 2 | 0 | 0 | 0 | 0 | 311 |
| 7:00 | 2 | 0 | 0 | 0 | 33 | 254 | 258 | 52 | 0 | 0 | 0 | 0 | 0 | 599 |
| 8:00 | 3 | 0 | 0 | 0 | 35 | 249 | 211 | 32 | 3 | 0 | 0 | 0 | 0 | 533 |
| 9:00 | 2 | 0 | 0 | 0 | 42 | 292 | 196 | 27 | 0 | 1 | 0 | 0 | 0 | 560 |
| 10:00 | 5 | 0 | 0 | 1 | 21 | 248 | 218 | 42 | 5 | 0 | 0 | 0 | 0 | 540 |
| 11:00 | 3 | 0 | 0 | 1 | 49 | 319 | 187 | 37 | 2 | 0 | 0 | 0 | 0 | 598 |
| 12:00 PM | 7 | 0 | 8 | 3 | 53 | 301 | 221 | 30 | 3 | 0 | 0 | 0 | 0 | 626 |
| 1:00 | 5 | 0 | 1 | 12 | 49 | 282 | 242 | 39 | 3 | 0 | 0 | 0 | 0 | 633 |
| 2:00 | 1 | 0 | 0 | 4 | 74 | 321 | 220 | 38 | 4 | 0 | 0 | 0 | 0 | 662 |
| 3:00 | 0 | 0 | 0 | 18 | 68 | 331 | 213 | 35 | 5 | 0 | 0 | 0 | 1 | 671 |
| 4:00 | 0 | 0 | 0 | 2 | 37 | 292 | 178 | 41 | 2 | 1 | 0 | 0 | 0 | 553 |
| 5:00 | 0 | 1 | 0 | 5 | 46 | 209 | 133 | 32 | 7 | 0 | 0 | 0 | 0 | 433 |
| 6:00 | 0 | 0 | 0 | 0 | 19 | 119 | 129 | 30 | 2 | 0 | 0 | 0 | 0 | 299 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 56 | 55 | 22 | 10 | 1 | 0 | 0 | 0 | 149 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 40 | 61 | 15 | 1 | 1 | 0 | 0 | 0 | 122 |
| 9:00 | 0 | 0 | 0 | 1 | 7 | 38 | 21 | 10 | 2 | 1 | 0 | 0 | 0 | 80 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 31 | 12 | 5 | 1 | 1 | 0 | 0 | 0 | 52 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 28 | 1 | 9 | 47 | 565 | 3603 | 2738 | 516 | 56 | 6 | 0 | 0 | 1 | 7570 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 3 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 12 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 42 | 35 | 9 | 2 | 0 | 0 | 0 | 0 | 92 |
| 6:00 | 0 | 0 | 0 | 4 | 20 | 162 | 115 | 9 | 1 | 1 | 0 | 0 | 0 | 312 |
| 7:00 | 4 | 0 | 0 | 0 | 46 | 266 | 252 | 22 | 2 | 0 | 0 | 0 | 0 | 592 |
| 8:00 | 3 | 1 | 3 | 1 | 31 | 245 | 214 | 39 | 5 | 0 | 0 | 0 | 0 | 542 |
| 9:00 | 3 | 0 | 0 | 5 | 51 | 251 | 200 | 34 | 3 | 0 | 0 | 0 | 0 | 547 |
| 10:00 | 2 | 0 | 0 | 4 | 41 | 284 | 237 | 46 | 1 | 1 | 0 | 0 | 1 | 617 |
| 11:00 | 2 | 0 | 0 | 3 | 45 | 312 | 229 | 42 | 2 | 2 | 0 | 0 | 0 | 637 |
| 12:00 PM | 2 | 0 | 0 | 0 | 45 | 291 | 258 | 42 | 8 | 0 | 0 | 0 | 1 | 647 |
| 1:00 | 4 | 0 | 1 | 4 | 48 | 329 | 202 | 33 | 5 | 0 | 0 | 0 | 0 | 626 |
| 2:00 | 3 | 0 | 0 | 13 | 42 | 324 | 245 | 40 | 3 | 1 | 0 | 0 | 0 | 671 |
| 3:00 | 4 | 0 | 0 | 2 | 68 | 318 | 231 | 54 | 0 | 1 | 0 | 0 | 1 | 679 |
| 4:00 | 11 | 0 | 0 | 0 | 37 | 276 | 215 | 39 | 8 | 0 | 0 | 0 | 0 | 586 |
| 5:00 | 1 | 0 | 0 | 2 | 35 | 202 | 177 | 39 | 2 | 1 | 0 | 0 | 0 | 459 |
| 6:00 | 1 | 0 | 0 | 0 | 19 | 155 | 103 | 11 | 2 | 0 | 0 | 0 | 0 | 291 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 54 | 75 | 20 | 2 | 0 | 0 | 0 | 0 | 158 |
| 8:00 | 0 | 0 | 0 | 0 | 8 | 57 | 59 | 14 | 5 | 0 | 1 | 0 | 0 | 144 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 40 | 40 | 9 | 3 | 1 | 0 | 0 | 0 | 104 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 21 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 51 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | 40 | 1 | 4 | 38 | 563 | 3652 | 2945 | 525 | 60 | 8 | 1 | 0 | 3 | 7840 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 15 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 42 | 45 | 8 | 1 | 0 | 0 | 0 | 0 | 97 |
| 6:00 | 0 | 0 | 0 | 3 | 29 | 156 | 108 | 14 | 1 | 0 | 0 | 0 | 0 | 311 |
| 7:00 | 3 | 0 | 0 | 8 | 36 | 288 | 254 | 38 | 2 | 0 | 0 | 0 | 1 | 630 |
| 8:00 | 2 | 0 | 0 | 6 | 30 | 265 | 197 | 39 | 2 | 0 | 0 | 0 | 0 | 541 |
| 9:00 | 3 | 0 | 0 | 0 | 24 | 316 | 302 | 39 | 6 | 0 | 0 | 0 | 0 | 690 |
| 10:00 | 1 | 0 | 0 | 7 | 50 | 307 | 243 | 28 | 0 | 0 | 0 | 0 | 0 | 636 |
| 11:00 | 2 | 0 | 1 | 6 | 65 | 382 | 202 | 21 | 1 | 0 | 0 | 0 | 0 | 680 |
| 12:00 PM | 4 | 0 | 0 | 0 | 54 | 311 | 206 | 37 | 0 | 0 | 0 | 0 | 0 | 612 |
| 1:00 | 4 | 0 | 0 | 5 | 77 | 306 | 232 | 34 | 5 | 0 | 1 | 1 | 0 | 665 |
| 2:00 | 11 | 0 | 0 | 24 | 74 | 358 | 224 | 28 | 2 | 2 | 0 | 0 | 0 | 723 |
| 3:00 | 1 | 0 | 0 | 7 | 87 | 349 | 207 | 17 | 5 | 2 | 0 | 0 | 0 | 675 |
| 4:00 | 23 | 8 | 13 | 13 | 59 | 252 | 183 | 38 | 1 | 0 | 0 | 0 | 0 | 590 |
| 5:00 | 0 | 0 | 0 | 1 | 57 | 238 | 149 | 33 | 5 | 0 | 0 | 0 | 0 | 483 |
| 6:00 | 0 | 0 | 0 | 2 | 27 | 136 | 110 | 29 | 4 | 1 | 0 | 0 | 0 | 309 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 93 | 109 | 28 | 5 | 0 | 1 | 0 | 0 | 240 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 48 | 82 | 13 | 4 | 0 | 0 | 0 | 0 | 151 |
| 9:00 | 1 | 0 | 0 | 0 | 14 | 66 | 61 | 11 | 3 | 0 | 0 | 1 | 0 | 157 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 45 | 31 | 3 | 1 | 0 | 0 | 0 | 0 | 86 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 16 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 27 |
| Total | 55 | 8 | 14 | 82 | 700 | 3993 | 2977 | 464 | 50 | 6 | 3 | 2 | 1 | 8355 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 21 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 31 | 45 | 4 | 1 | 0 | 0 | 0 | 0 | 83 |
| 6:00 | 0 | 0 | 0 | 0 | 16 | 180 | 105 | 8 | 2 | 0 | 0 | 0 | 0 | 311 |
| 7:00 | 0 | 0 | 0 | 0 | 28 | 273 | 235 | 33 | 1 | 1 | 0 | 0 | 0 | 571 |
| 8:00 | 1 | 0 | 0 | 1 | 23 | 244 | 245 | 41 | 3 | 0 | 0 | 0 | 0 | 558 |
| 9:00 | 2 | 0 | 0 | 0 | 36 | 277 | 236 | 25 | 4 | 1 | 0 | 0 | 0 | 581 |
| 10:00 | 0 | 0 | 0 | 0 | 46 | 272 | 224 | 40 | 3 | 0 | 0 | 0 | 0 | 585 |
| 11:00 | 5 | 0 | 1 | 2 | 71 | 304 | 204 | 39 | 5 | 0 | 0 | 0 | 0 | 631 |
| 12:00 PM | 6 | 3 | 11 | 1 | 41 | 310 | 227 | 49 | 4 | 0 | 1 | 0 | 0 | 653 |
| 1:00 | 6 | 0 | 0 | 1 | 46 | 291 | 236 | 53 | 7 | 0 | 0 | 0 | 0 | 640 |
| 2:00 | 1 | 0 | 0 | 6 | 75 | 372 | 219 | 31 | 6 | 2 | 0 | 0 | 0 | 712 |
| 3:00 | 6 | 0 | 0 | 6 | 109 | 346 | 173 | 37 | 8 | 1 | 0 | 0 | 0 | 686 |
| 4:00 | 7 | 0 | 1 | 19 | 74 | 252 | 204 | 49 | 2 | 1 | 0 | 0 | 0 | 609 |
| 5:00 | 1 | 0 | 0 | 7 | 56 | 227 | 167 | 40 | 11 | 3 | 0 | 0 | 0 | 512 |
| 6:00 | 0 | 0 | 0 | 1 | 25 | 156 | 120 | 39 | 4 | 1 | 1 | 0 | 0 | 347 |
| 7:00 | 0 | 0 | 0 | 6 | 4 | 82 | 87 | 30 | 3 | 1 | 0 | 0 | 0 | 213 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 69 | 62 | 11 | 0 | 0 | 1 | 0 | 0 | 148 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 67 | 38 | 12 | 1 | 1 | 0 | 0 | 0 | 123 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 27 | 20 | 6 | 3 | 0 | 0 | 0 | 0 | 66 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 16 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 35 |
| Total | 35 | 3 | 13 | 50 | 675 | 3812 | 2876 | 562 | 70 | 12 | 3 | 0 | 0 | 8111 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 24 | 54 | 12 | 0 | 1 | 0 | 0 | 0 | 94 |
| 6:00 | 0 | 0 | 0 | 1 | 12 | 143 | 123 | 20 | 0 | 0 | 0 | 1 | 0 | 300 |
| 7:00 | 1 | 0 | 0 | 0 | 32 | 273 | 246 | 46 | 5 | 0 | 0 | 0 | 0 | 603 |
| 8:00 | 3 | 0 | 0 | 0 | 50 | 251 | 223 | 48 | 5 | 0 | 0 | 0 | 0 | 580 |
| 9:00 | 3 | 1 | 4 | 0 | 39 | 293 | 250 | 53 | 5 | 1 | 0 | 0 | 0 | 649 |
| 10:00 | 3 | 0 | 0 | 3 | 52 | 311 | 204 | 49 | 9 | 0 | 0 | 0 | 0 | 631 |
| 11:00 | 2 | 0 | 0 | 2 | 66 | 310 | 244 | 45 | 7 | 2 | 0 | 0 | 0 | 678 |
| 12:00 PM | 2 | 0 | 0 | 2 | 82 | 289 | 274 | 56 | 12 | 3 | 0 | 1 | 0 | 721 |
| 1:00 | 4 | 0 | 0 | 0 | 36 | 280 | 254 | 52 | 4 | 1 | 1 | 0 | 0 | 632 |
| 2:00 | 2 | 0 | 0 | 1 | 56 | 307 | 266 | 51 | 5 | 2 | 0 | 0 | 0 | 690 |
| 3:00 | 2 | 0 | 0 | 1 | 52 | 305 | 221 | 59 | 11 | 3 | 0 | 0 | 0 | 654 |
| 4:00 | 2 | 0 | 1 | 0 | 28 | 289 | 210 | 49 | 8 | 2 | 2 | 0 | 0 | 591 |
| 5:00 | 0 | 0 | 2 | 5 | 54 | 166 | 170 | 35 | 4 | 2 | 0 | 0 | 0 | 438 |
| 6:00 | 0 | 0 | 1 | 9 | 32 | 105 | 116 | 26 | 4 | 1 | 0 | 0 | 0 | 294 |
| 7:00 | 0 | 0 | 1 | 1 | 13 | 75 | 110 | 30 | 5 | 2 | 0 | 0 | 0 | 237 |
| 8:00 | 0 | 0 | 0 | 5 | 18 | 118 | 81 | 15 | 3 | 1 | 0 | 0 | 0 | 241 |
| 9:00 | 0 | 0 | 0 | 1 | 15 | 76 | 85 | 13 | 2 | 1 | 0 | 0 | 0 | 193 |
| 10:00 | 0 | 0 | 2 | 2 | 17 | 59 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 107 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 15 | 15 | 6 | 1 | 0 | 0 | 0 | 0 | 38 |
| Total | 24 | 1 | 11 | 33 | 659 | 3705 | 3192 | 678 | 90 | 22 | 3 | 2 | 0 | 8420 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 1 | 2 | 0 | 0 | 0 | 13 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 4 | 0 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 6 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 32 | 35 | 1 | 2 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 75 | 52 | 11 | 2 | 0 | 1 | 0 | 0 | 148 |
| 7:00 | 0 | 0 | 0 | 1 | 17 | 76 | 108 | 38 | 7 | 0 | 0 | 0 | 0 | 247 |
| 8:00 | 0 | 0 | 1 | 6 | 21 | 144 | 154 | 37 | 12 | 2 | 0 | 0 | 0 | 377 |
| 9:00 | 0 | 0 | 0 | 1 | 15 | 178 | 198 | 58 | 8 | 0 | 0 | 0 | 0 | 458 |
| 10:00 | 0 | 0 | 0 | 1 | 23 | 243 | 209 | 35 | 3 | 1 | 0 | 0 | 0 | 515 |
| 11:00 | 1 | 0 | 0 | 4 | 38 | 233 | 231 | 67 | 6 | 1 | 0 | 0 | 0 | 581 |
| 12:00 PM | 3 | 0 | 0 | 6 | 39 | 231 | 188 | 62 | 6 | 0 | 0 | 0 | 0 | 535 |
| 1:00 | 1 | 0 | 0 | 0 | 28 | 265 | 224 | 47 | 7 | 2 | 0 | 0 | 0 | 574 |
| 2:00 | 2 | 0 | 0 | 1 | 34 | 217 | 239 | 73 | 9 | 1 | 1 | 0 | 1 | 578 |
| 3:00 | 3 | 0 | 0 | 4 | 47 | 195 | 247 | 60 | 8 | 3 | 0 | 0 | 0 | 567 |
| 4:00 | 2 | 0 | 0 | 9 | 60 | 227 | 219 | 55 | 13 | 4 | 0 | 0 | 0 | 589 |
| 5:00 | 0 | 0 | 2 | 2 | 54 | 190 | 178 | 45 | 10 | 0 | 0 | 0 | 0 | 481 |
| 6:00 | 2 | 0 | 1 | 0 | 37 | 168 | 126 | 37 | 7 | 1 | 0 | 0 | 0 | 379 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 106 | 88 | 34 | 10 | 1 | 1 | 0 | 1 | 250 |
| 8:00 | 0 | 0 | 0 | 4 | 42 | 96 | 71 | 19 | 3 | 0 | 0 | 0 | 0 | 235 |
| 9:00 | 0 | 0 | 0 | 0 | 8 | 121 | 58 | 11 | 4 | 0 | 1 | 0 | 0 | 203 |
| 10:00 | 0 | 0 | 0 | 1 | 17 | 51 | 23 | 12 | 0 | 0 | 0 | 0 | 0 | 104 |
| 11:00 | 0 | 0 | 0 | 1 | 6 | 19 | 16 | 3 | 0 | 1 | 0 | 0 | 0 | 46 |
| Total | 14 | 0 | 4 | 43 | 509 | 2881 | 2680 | 715 | 120 | 20 | 4 | 0 | 2 | 6992 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 5 | 2 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 10 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 13 | 21 | 8 | 2 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 35 | 51 | 14 | 4 | 0 | 0 | 0 | 0 | 109 |
| 7:00 | 0 | 0 | 0 | 1 | 11 | 54 | 59 | 39 | 8 | 2 | 1 | 0 | 0 | 175 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 86 | 102 | 37 | 5 | 2 | 0 | 0 | 1 | 237 |
| 9:00 | 0 | 0 | 0 | 1 | 19 | 194 | 161 | 40 | 15 | 0 | 0 | 0 | 0 | 430 |
| 10:00 | 1 | 0 | 0 | 3 | 67 | 216 | 155 | 42 | 10 | 3 | 0 | 0 | 1 | 498 |
| 11:00 | 1 | 0 | 0 | 1 | 37 | 223 | 186 | 38 | 4 | 0 | 0 | 0 | 1 | 491 |
| 12:00 PM | 0 | 0 | 0 | 0 | 27 | 225 | 215 | 37 | 7 | 0 | 1 | 0 | 0 | 512 |
| 1:00 | 0 | 0 | 0 | 0 | 23 | 158 | 161 | 48 | 9 | 1 | 0 | 0 | 0 | 400 |
| 2:00 | 0 | 0 | 0 | 4 | 20 | 187 | 135 | 39 | 12 | 2 | 0 | 0 | 0 | 399 |
| 3:00 | 0 | 0 | 0 | 2 | 21 | 184 | 144 | 37 | 4 | 0 | 0 | 0 | 0 | 392 |
| 4:00 | 2 | 0 | 1 | 0 | 27 | 137 | 146 | 47 | 9 | 1 | 0 | 0 | 0 | 370 |
| 5:00 | 0 | 0 | 0 | 0 | 26 | 159 | 90 | 27 | 4 | 4 | 1 | 0 | 0 | 311 |
| 6:00 | 0 | 0 | 0 | 0 | 25 | 94 | 67 | 23 | 5 | 3 | 1 | 0 | 0 | 218 |
| 7:00 | 0 | 1 | 0 | 0 | 8 | 54 | 56 | 21 | 3 | 0 | 0 | 0 | 0 | 143 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 45 | 50 | 9 | 1 | 1 | 0 | 0 | 0 | 113 |
| 9:00 | 0 | 0 | 0 | 0 | 13 | 49 | 35 | 11 | 3 | 1 | 0 | 0 | 0 | 112 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 33 | 15 | 8 | 4 | 0 | 0 | 1 | 0 | 64 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 5 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| Total | 4 | 1 | 1 | 12 | 349 | 2171 | 1882 | 535 | 114 | 21 | 4 | 1 | 3 | 5098 |

City of Sanibel
Location: Sanibel Captiva Road
East of Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/8/2025

Direction: Combined

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 41 | 29 | 6 | 2 | 1 | 0 | 0 | 0 | 82 |
| 6:00 | 0 | 0 | 0 | 0 | 12 | 145 | 118 | 10 | 1 | 0 | 0 | 0 | 0 | 286 |
| 7:00 | 6 | 1 | 0 | 3 | 62 | 254 | 205 | 28 | 5 | 1 | 0 | 0 | 0 | 565 |
| 8:00 | 2 | 0 | 0 | 12 | 49 | 257 | 157 | 27 | 4 | 1 | 1 | 0 | 0 | 510 |
| 9:00 | 8 | 0 | 0 | 1 | 73 | 300 | 188 | 31 | 3 | 0 | 0 | 0 | 0 | 604 |
| 10:00 | 3 | 0 | 0 | 0 | 87 | 292 | 182 | 29 | 1 | 0 | 0 | 0 | 0 | 594 |
| 11:00 | 1 | 0 | 0 | 8 | 37 | 285 | 236 | 46 | 9 | 0 | 0 | 0 | 1 | 623 |
| 12:00 PM | 0 | 0 | 0 | 10 | 49 | 296 | 211 | 52 | 12 | 0 | 0 | 0 | 0 | 630 |
| 1:00 | 0 | 0 | 0 | 13 | 110 | 296 | 203 | 40 | 11 | 1 | 0 | 0 | 0 | 674 |
| 2:00 | 2 | 0 | 1 | 20 | 180 | 317 | 153 | 42 | 5 | 1 | 0 | 0 | 0 | 721 |
| 3:00 | 1 | 0 | 0 | 6 | 111 | 304 | 200 | 66 | 9 | 1 | 0 | 0 | 0 | 698 |
| 4:00 | 2 | 0 | 0 | 1 | 61 | 160 | 121 | 54 | 13 | 3 | 0 | 0 | 0 | 415 |
| 5:00 | 7 | 0 | 0 | 4 | 16 | 72 | 86 | 41 | 5 | 1 | 0 | 0 | 0 | 232 |
| 6:00 | 2 | 0 | 0 | 0 | 10 | 28 | 49 | 24 | 6 | 1 | 0 | 0 | 0 | 120 |
| 7:00 | 5 | 0 | 0 | 0 | 1 | 12 | 32 | 13 | 5 | 1 | 0 | 0 | 0 | 69 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 12 | 24 | 16 | 2 | 0 | 0 | 0 | 0 | 55 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 10 | 14 | 13 | 2 | 0 | 0 | 0 | 0 | 39 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 8 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 9 |
| Total | 39 | 1 | 1 | 79 | 862 | 3107 | 2237 | 558 | 97 | 12 | 1 | 0 | 1 | 6995 |
| Grand Total | 590 | 78 | 273 | 979 | 11184 | 66252 | 53985 | 11226 | 1562 | 260 | 49 | 17 | 25 | 146480 |

| Stats | | | | |
|---|---|---|---|---|
| | Percentile | 15th | 50th | 85th | 95th |
| | Speed | 35 | 39 | 43 | 46 |
| | Mean Speed (Average) | 40.2 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 120232 | | | |
| | Percent in Pace | 82.0% | | | |
| | Number > 35 MPH | 133376 | | | |
| | Percent > 35 MPH | 91.1% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 1 | 10 | 4 | 18 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 6:00 | 1 | 0 | 5 | 34 | 60 | 52 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 159 |
| 7:00 | 1 | 0 | 3 | 23 | 84 | 95 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 220 |
| 8:00 | 0 | 0 | 5 | 37 | 122 | 72 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 245 |
| 9:00 | 0 | 1 | 1 | 37 | 94 | 76 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 218 |
| 10:00 | 1 | 1 | 4 | 28 | 110 | 59 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 212 |
| 11:00 | 0 | 0 | 1 | 50 | 113 | 65 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 236 |
| 12:00 PM | 7 | 4 | 19 | 23 | 38 | 25 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| 1:00 | 0 | 1 | 3 | 39 | 68 | 36 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 157 |
| 2:00 | 3 | 2 | 7 | 22 | 48 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |
| 3:00 | 4 | 11 | 30 | 43 | 20 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 4:00 | 9 | 3 | 14 | 28 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| 5:00 | 6 | 11 | 18 | 32 | 23 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 |
| 6:00 | 0 | 0 | 0 | 1 | 15 | 21 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 44 |
| 7:00 | 0 | 0 | 0 | 3 | 10 | 21 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 41 |
| 8:00 | 0 | 0 | 0 | 2 | 11 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 32 | 34 | 111 | 412 | 869 | 627 | 103 | 5 | 1 | 0 | 0 | 0 | 1 | 2195 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 1 | 2 | 13 | 17 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 6 | 8 | 23 | 83 | 40 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 167 |
| 7:00 | 0 | 1 | 0 | 23 | 113 | 83 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |
| 8:00 | 2 | 0 | 0 | 20 | 102 | 79 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 215 |
| 9:00 | 0 | 0 | 6 | 66 | 100 | 76 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 259 |
| 10:00 | 1 | 1 | 7 | 38 | 95 | 66 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 212 |
| 11:00 | 0 | 1 | 4 | 35 | 88 | 46 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 179 |
| 12:00 PM | 2 | 0 | 1 | 25 | 88 | 52 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 176 |
| 1:00 | 0 | 2 | 4 | 44 | 71 | 33 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 2:00 | 0 | 3 | 5 | 34 | 60 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 134 |
| 3:00 | 1 | 0 | 1 | 25 | 54 | 26 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 112 |
| 4:00 | 0 | 3 | 0 | 16 | 57 | 30 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| 5:00 | 0 | 0 | 5 | 21 | 43 | 33 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 106 |
| 6:00 | 0 | 1 | 0 | 5 | 20 | 14 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 44 |
| 7:00 | 0 | 0 | 0 | 2 | 8 | 21 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 0 | 0 | 0 | 3 | 9 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 9:00 | 0 | 0 | 0 | 2 | 6 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 6 | 18 | 42 | 384 | 1016 | 670 | 106 | 4 | 1 | 0 | 0 | 0 | 0 | 2247 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 5 | 3 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 6:00 | 3 | 0 | 1 | 26 | 62 | 45 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
| 7:00 | 0 | 0 | 8 | 36 | 105 | 57 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 215 |
| 8:00 | 0 | 0 | 5 | 46 | 101 | 69 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 228 |
| 9:00 | 1 | 0 | 4 | 47 | 108 | 62 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 233 |
| 10:00 | 0 | 0 | 16 | 34 | 75 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 176 |
| 11:00 | 1 | 0 | 4 | 31 | 105 | 57 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 204 |
| 12:00 PM | 0 | 1 | 2 | 27 | 107 | 47 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 199 |
| 1:00 | 1 | 0 | 1 | 19 | 64 | 45 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 137 |
| 2:00 | 0 | 0 | 3 | 11 | 68 | 69 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| 3:00 | 1 | 1 | 1 | 16 | 43 | 49 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 125 |
| 4:00 | 1 | 0 | 1 | 9 | 61 | 47 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 134 |
| 5:00 | 0 | 0 | 1 | 21 | 45 | 31 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 110 |
| 6:00 | 0 | 0 | 0 | 4 | 16 | 25 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 57 |
| 7:00 | 0 | 0 | 0 | 0 | 16 | 26 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 52 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 0 | 0 | 1 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 10:00 | 0 | 0 | 0 | 2 | 2 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 8 | 2 | 47 | 336 | 1010 | 740 | 141 | 12 | 1 | 0 | 0 | 0 | 0 | 2297 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 5 | 7 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 0 | 1 | 10 | 45 | 33 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 93 |
| 7:00 | 0 | 0 | 0 | 10 | 37 | 58 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 5 | 9 | 14 | 65 | 52 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 154 |
| 9:00 | 0 | 1 | 6 | 19 | 99 | 58 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 189 |
| 10:00 | 0 | 0 | 0 | 13 | 86 | 47 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| 11:00 | 0 | 0 | 3 | 12 | 75 | 66 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 163 |
| 12:00 PM | 2 | 1 | 11 | 31 | 70 | 49 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 175 |
| 1:00 | 0 | 0 | 9 | 37 | 59 | 40 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 154 |
| 2:00 | 0 | 0 | 3 | 33 | 81 | 46 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 3:00 | 1 | 3 | 4 | 31 | 84 | 43 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 4:00 | 0 | 1 | 5 | 33 | 65 | 44 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 158 |
| 5:00 | 1 | 0 | 8 | 19 | 66 | 39 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 136 |
| 6:00 | 0 | 0 | 2 | 15 | 54 | 30 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 112 |
| 7:00 | 0 | 0 | 0 | 2 | 19 | 25 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 8:00 | 0 | 1 | 0 | 7 | 21 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 9:00 | 0 | 0 | 2 | 4 | 12 | 9 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 32 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 4 | 12 | 63 | 296 | 958 | 701 | 133 | 14 | 0 | 0 | 0 | 0 | 0 | 2181 |



**958**

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 3 | 12 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 35 |
| 6:00 | 0 | 0 | 1 | 6 | 16 | 20 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 48 |
| 7:00 | 0 | 0 | 2 | 0 | 22 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 1 | 12 | 33 | 40 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 100 |
| 9:00 | 1 | 0 | 0 | 12 | 44 | 26 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| 10:00 | 1 | 0 | 4 | 37 | 94 | 40 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 182 |
| 11:00 | 0 | 1 | 5 | 61 | 72 | 29 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 176 |
| 12:00 PM | 1 | 2 | 6 | 46 | 78 | 38 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 173 |
| 1:00 | 3 | 0 | 1 | 41 | 94 | 54 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 198 |
| 2:00 | 0 | 1 | 10 | 35 | 73 | 39 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 164 |
| 3:00 | 0 | 0 | 1 | 22 | 57 | 49 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 143 |
| 4:00 | 0 | 1 | 2 | 25 | 62 | 36 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| 5:00 | 1 | 1 | 2 | 33 | 41 | 32 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 6:00 | 0 | 0 | 0 | 1 | 26 | 24 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 7:00 | 0 | 0 | 0 | 1 | 12 | 19 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 43 |
| 8:00 | 0 | 0 | 0 | 2 | 16 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 9:00 | 0 | 0 | 0 | 2 | 7 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 7 | 6 | 35 | 343 | 767 | 546 | 126 | 9 | 1 | 1 | 0 | 0 | 0 | 1841 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 8 | 9 | 22 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 0 | 0 | 0 | 25 | 77 | 48 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 151 |
| 7:00 | 0 | 0 | 1 | 28 | 100 | 80 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 218 |
| 8:00 | 0 | 0 | 5 | 35 | 104 | 76 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 226 |
| 9:00 | 1 | 0 | 2 | 45 | 115 | 57 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 222 |
| 10:00 | 1 | 1 | 5 | 43 | 85 | 47 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 190 |
| 11:00 | 0 | 0 | 10 | 37 | 94 | 48 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| 12:00 PM | 2 | 0 | 4 | 33 | 104 | 59 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
| 1:00 | 0 | 0 | 3 | 34 | 77 | 46 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 162 |
| 2:00 | 0 | 1 | 0 | 18 | 71 | 56 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 156 |
| 3:00 | 0 | 0 | 4 | 10 | 57 | 54 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| 4:00 | 0 | 0 | 1 | 36 | 56 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| 5:00 | 0 | 0 | 2 | 22 | 54 | 32 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 112 |
| 6:00 | 0 | 1 | 1 | 12 | 17 | 34 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 7:00 | 0 | 0 | 0 | 2 | 19 | 29 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 61 |
| 8:00 | 0 | 0 | 0 | 0 | 19 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 9:00 | 0 | 0 | 0 | 3 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 4 | 3 | 38 | 394 | 1075 | 759 | 100 | 9 | 0 | 0 | 0 | 0 | 0 | 2382 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 2 | 7 | 23 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 0 | 5 | 47 | 82 | 30 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| 7:00 | 0 | 0 | 2 | 18 | 109 | 90 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 237 |
| 8:00 | 1 | 0 | 0 | 42 | 123 | 90 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 265 |
| 9:00 | 0 | 0 | 5 | 48 | 144 | 52 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 255 |
| 10:00 | 0 | 0 | 6 | 35 | 122 | 53 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 225 |
| 11:00 | 0 | 0 | 15 | 69 | 126 | 53 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 265 |
| 12:00 PM | 1 | 0 | 6 | 41 | 100 | 59 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 214 |
| 1:00 | 2 | 2 | 2 | 32 | 70 | 53 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 2:00 | 1 | 0 | 6 | 15 | 61 | 45 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 139 |
| 3:00 | 1 | 0 | 6 | 26 | 62 | 43 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 144 |
| 4:00 | 0 | 0 | 1 | 28 | 73 | 54 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 172 |
| 5:00 | 0 | 0 | 2 | 29 | 61 | 39 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 138 |
| 6:00 | 0 | 0 | 0 | 7 | 37 | 28 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 86 |
| 7:00 | 0 | 0 | 0 | 5 | 16 | 15 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 0 | 0 | 0 | 5 | 8 | 14 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 0 | 0 | 0 | 1 | 13 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 10:00 | 0 | 0 | 0 | 2 | 4 | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 16 |
| 11:00 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 6 | 2 | 56 | 454 | 1226 | 780 | 141 | 11 | 1 | 0 | 0 | 0 | 1 | 2678 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 6 | 11 | 24 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 0 | 0 | 28 | 52 | 42 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 134 |
| 7:00 | 0 | 0 | 0 | 38 | 110 | 69 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 222 |
| 8:00 | 3 | 2 | 8 | 54 | 79 | 82 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 237 |
| 9:00 | 3 | 9 | 15 | 19 | 107 | 56 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 221 |
| 10:00 | 0 | 0 | 2 | 28 | 86 | 69 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 196 |
| 11:00 | 1 | 0 | 7 | 33 | 69 | 49 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 170 |
| 12:00 PM | 0 | 2 | 6 | 47 | 95 | 66 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 227 |
| 1:00 | 1 | 1 | 2 | 26 | 78 | 67 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 186 |
| 2:00 | 1 | 0 | 1 | 22 | 92 | 48 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 3:00 | 1 | 0 | 0 | 25 | 58 | 60 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 161 |
| 4:00 | 0 | 1 | 0 | 19 | 67 | 55 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 153 |
| 5:00 | 0 | 1 | 3 | 26 | 43 | 39 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 118 |
| 6:00 | 0 | 0 | 0 | 9 | 25 | 24 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 7:00 | 0 | 0 | 1 | 1 | 15 | 29 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 8:00 | 0 | 0 | 0 | 5 | 13 | 10 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 0 | 0 | 0 | 2 | 12 | 18 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 41 |
| 10:00 | 0 | 0 | 0 | 2 | 3 | 6 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 20 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 10 | 16 | 45 | 391 | 1020 | 823 | 170 | 17 | 1 | 1 | 0 | 0 | 0 | 2494 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 11 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 6:00 | 0 | 0 | 0 | 8 | 33 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 69 |
| 7:00 | 0 | 0 | 0 | 10 | 32 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 2 | 22 | 37 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 1 | 0 | 0 | 18 | 44 | 40 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 108 |
| 10:00 | 0 | 0 | 0 | 22 | 52 | 39 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 120 |
| 11:00 | 0 | 0 | 8 | 29 | 71 | 39 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 158 |
| 12:00 PM | 0 | 0 | 1 | 32 | 75 | 46 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 158 |
| 1:00 | 0 | 0 | 1 | 26 | 70 | 39 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
| 2:00 | 2 | 0 | 4 | 38 | 73 | 26 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 147 |
| 3:00 | 0 | 0 | 0 | 30 | 49 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| 4:00 | 0 | 0 | 4 | 30 | 58 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| 5:00 | 1 | 0 | 4 | 13 | 29 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| 6:00 | 0 | 0 | 0 | 3 | 15 | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 47 |
| 7:00 | 0 | 0 | 1 | 1 | 7 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 8:00 | 0 | 0 | 0 | 4 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 17 |
| 9:00 | 0 | 0 | 0 | 3 | 8 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 4 | 0 | 23 | 272 | 670 | 439 | 78 | 6 | 3 | 0 | 0 | 0 | 0 | 1495 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 5 | 8 | 12 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 6:00 | 1 | 1 | 5 | 37 | 32 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 89 |
| 7:00 | 0 | 1 | 18 | 33 | 42 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 8:00 | 1 | 0 | 4 | 51 | 72 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 154 |
| 9:00 | 0 | 0 | 15 | 36 | 92 | 24 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 175 |
| 10:00 | 3 | 9 | 35 | 60 | 36 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 11:00 | 0 | 3 | 42 | 69 | 80 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 208 |
| 12:00 PM | 0 | 2 | 30 | 55 | 95 | 24 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 212 |
| 1:00 | 1 | 3 | 35 | 71 | 92 | 38 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 244 |
| 2:00 | 0 | 0 | 10 | 66 | 105 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 206 |
| 3:00 | 2 | 4 | 28 | 72 | 73 | 39 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 222 |
| 4:00 | 5 | 6 | 29 | 94 | 106 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 268 |
| 5:00 | 1 | 3 | 23 | 75 | 102 | 36 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 243 |
| 6:00 | 0 | 1 | 1 | 16 | 38 | 40 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| 7:00 | 0 | 0 | 3 | 10 | 21 | 21 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 58 |
| 8:00 | 0 | 0 | 0 | 4 | 7 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 9:00 | 0 | 0 | 1 | 13 | 16 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 10:00 | 0 | 0 | 0 | 2 | 5 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 14 | 33 | 285 | 777 | 1031 | 396 | 53 | 5 | 0 | 0 | 0 | 0 | 0 | 2594 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 1 | 3 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 6:00 | 0 | 0 | 1 | 4 | 26 | 21 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 54 |
| 7:00 | 0 | 0 | 3 | 5 | 43 | 46 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| 8:00 | 0 | 0 | 4 | 25 | 56 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| 9:00 | 1 | 0 | 10 | 41 | 85 | 42 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 10:00 | 1 | 1 | 11 | 45 | 68 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 144 |
| 11:00 | 2 | 1 | 22 | 54 | 81 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 185 |
| 12:00 PM | 0 | 4 | 8 | 70 | 82 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 1:00 | 0 | 2 | 7 | 54 | 84 | 30 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 182 |
| 2:00 | 1 | 0 | 12 | 54 | 74 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 162 |
| 3:00 | 1 | 5 | 24 | 32 | 50 | 25 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
| 4:00 | 1 | 0 | 8 | 22 | 67 | 36 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 138 |
| 5:00 | 0 | 0 | 5 | 23 | 53 | 36 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 127 |
| 6:00 | 0 | 0 | 1 | 10 | 24 | 26 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 71 |
| 7:00 | 0 | 0 | 0 | 2 | 18 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 8:00 | 0 | 1 | 0 | 8 | 16 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 38 |
| 9:00 | 0 | 0 | 1 | 1 | 19 | 8 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 33 |
| 10:00 | 0 | 0 | 0 | 1 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 11:00 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 7 | 14 | 119 | 455 | 867 | 434 | 72 | 5 | 1 | 1 | 0 | 0 | 0 | 1975 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 1 | 2 | 11 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 6:00 | 0 | 0 | 0 | 2 | 13 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 7:00 | 1 | 0 | 2 | 0 | 19 | 44 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 76 |
| 8:00 | 0 | 0 | 1 | 11 | 35 | 40 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 95 |
| 9:00 | 0 | 0 | 1 | 25 | 48 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |
| 10:00 | 0 | 1 | 5 | 30 | 82 | 34 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 11:00 | 0 | 0 | 4 | 37 | 77 | 25 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 152 |
| 12:00 PM | 0 | 1 | 5 | 39 | 79 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 161 |
| 1:00 | 0 | 1 | 8 | 32 | 72 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
| 2:00 | 2 | 5 | 9 | 36 | 50 | 37 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 142 |
| 3:00 | 0 | 0 | 3 | 27 | 47 | 35 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 4:00 | 0 | 0 | 2 | 12 | 46 | 31 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| 5:00 | 0 | 0 | 4 | 18 | 31 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| 6:00 | 0 | 0 | 1 | 8 | 17 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 7:00 | 0 | 0 | 0 | 2 | 22 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 8:00 | 0 | 0 | 1 | 2 | 12 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 9:00 | 0 | 0 | 0 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 3 | 8 | 49 | 291 | 673 | 437 | 78 | 6 | 0 | 0 | 0 | 0 | 0 | 1545 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 1 | 1 | 2 | 14 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 0 | 2 | 16 | 64 | 47 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 137 |
| 7:00 | 0 | 0 | 0 | 18 | 107 | 70 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 206 |
| 8:00 | 0 | 1 | 2 | 43 | 127 | 49 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| 9:00 | 0 | 0 | 6 | 20 | 116 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 193 |
| 10:00 | 0 | 0 | 5 | 38 | 82 | 41 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 177 |
| 11:00 | 1 | 0 | 10 | 27 | 90 | 39 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| 12:00 PM | 0 | 0 | 8 | 40 | 66 | 36 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 158 |
| 1:00 | 0 | 2 | 2 | 40 | 61 | 45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 152 |
| 2:00 | 0 | 0 | 1 | 25 | 52 | 37 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 125 |
| 3:00 | 1 | 1 | 3 | 14 | 41 | 38 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |
| 4:00 | 0 | 0 | 4 | 13 | 39 | 38 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
| 5:00 | 0 | 0 | 4 | 20 | 21 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 6:00 | 0 | 0 | 0 | 5 | 19 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 52 |
| 7:00 | 0 | 0 | 0 | 1 | 5 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 17 |
| 10:00 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 2 | 5 | 48 | 325 | 918 | 586 | 106 | 5 | 0 | 0 | 0 | 0 | 0 | 1995 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 1 | 7 | 15 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 6:00 | 0 | 0 | 0 | 35 | 76 | 42 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 160 |
| 7:00 | 0 | 0 | 4 | 34 | 99 | 59 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 202 |
| 8:00 | 1 | 0 | 7 | 40 | 126 | 58 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 237 |
| 9:00 | 1 | 0 | 3 | 40 | 92 | 63 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 204 |
| 10:00 | 0 | 0 | 5 | 42 | 108 | 53 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
| 11:00 | 0 | 1 | 5 | 33 | 78 | 54 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 179 |
| 12:00 PM | 0 | 0 | 0 | 33 | 83 | 51 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 171 |
| 1:00 | 1 | 0 | 6 | 31 | 46 | 30 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |
| 2:00 | 0 | 1 | 1 | 14 | 67 | 56 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 152 |
| 3:00 | 0 | 0 | 2 | 10 | 47 | 57 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 124 |
| 4:00 | 0 | 0 | 0 | 6 | 30 | 47 | 15 | 0 | 0 | 0 | 1 | 0 | 0 | 99 |
| 5:00 | 0 | 0 | 1 | 11 | 32 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 6:00 | 0 | 0 | 0 | 3 | 5 | 26 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 11 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 29 |
| 8:00 | 0 | 0 | 0 | 3 | 8 | 15 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 32 |
| 9:00 | 0 | 0 | 0 | 4 | 8 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 20 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 3 | 2 | 35 | 349 | 938 | 677 | 105 | 11 | 0 | 0 | 1 | 0 | 0 | 2121 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 2 | 3 | 8 | 21 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 6:00 | 0 | 0 | 5 | 26 | 58 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 141 |
| 7:00 | 14 | 2 | 2 | 14 | 112 | 71 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 227 |
| 8:00 | 0 | 1 | 4 | 22 | 92 | 71 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| 9:00 | 0 | 1 | 6 | 36 | 105 | 55 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 212 |
| 10:00 | 0 | 0 | 5 | 36 | 94 | 47 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 192 |
| 11:00 | 4 | 2 | 9 | 36 | 81 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 183 |
| 12:00 PM | 6 | 2 | 10 | 17 | 57 | 60 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 158 |
| 1:00 | 0 | 0 | 0 | 30 | 78 | 40 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 155 |
| 2:00 | 0 | 0 | 0 | 22 | 65 | 35 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 127 |
| 3:00 | 0 | 0 | 1 | 22 | 48 | 43 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 123 |
| 4:00 | 1 | 0 | 5 | 12 | 52 | 32 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 5:00 | 0 | 0 | 0 | 24 | 34 | 28 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 91 |
| 6:00 | 0 | 0 | 1 | 7 | 33 | 24 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 78 |
| 7:00 | 0 | 0 | 0 | 1 | 17 | 16 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 38 |
| 8:00 | 0 | 0 | 0 | 1 | 18 | 14 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 39 |
| 9:00 | 0 | 0 | 1 | 1 | 5 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 25 | 8 | 52 | 313 | 962 | 674 | 118 | 9 | 1 | 0 | 0 | 0 | 0 | 2162 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 2 | 4 | 13 | 13 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 39 |
| 6:00 | 1 | 0 | 5 | 27 | 68 | 48 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| 7:00 | 0 | 0 | 3 | 20 | 101 | 60 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 188 |
| 8:00 | 0 | 0 | 5 | 25 | 103 | 77 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 224 |
| 9:00 | 1 | 0 | 6 | 33 | 108 | 69 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |
| 10:00 | 0 | 0 | 2 | 25 | 89 | 60 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 178 |
| 11:00 | 0 | 0 | 0 | 17 | 93 | 50 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 166 |
| 12:00 PM | 0 | 0 | 5 | 42 | 82 | 40 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 175 |
| 1:00 | 0 | 17 | 7 | 18 | 76 | 51 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 173 |
| 2:00 | 0 | 1 | 2 | 25 | 73 | 41 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| 3:00 | 0 | 0 | 1 | 10 | 50 | 47 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 4:00 | 1 | 0 | 1 | 9 | 42 | 36 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 96 |
| 5:00 | 1 | 0 | 3 | 15 | 39 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 6:00 | 0 | 0 | 0 | 10 | 29 | 14 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 61 |
| 7:00 | 0 | 0 | 0 | 1 | 17 | 16 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 43 |
| 8:00 | 0 | 0 | 0 | 2 | 19 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 11 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 18 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 4 | 18 | 42 | 285 | 1017 | 682 | 105 | 10 | 1 | 1 | 0 | 0 | 1 | 2166 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 7 | 9 | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 6:00 | 9 | 2 | 1 | 25 | 56 | 40 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 139 |
| 7:00 | 0 | 0 | 0 | 15 | 92 | 81 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 8:00 | 0 | 2 | 11 | 40 | 120 | 66 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 248 |
| 9:00 | 0 | 0 | 3 | 33 | 132 | 81 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 256 |
| 10:00 | 1 | 0 | 7 | 39 | 89 | 40 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 11:00 | 0 | 0 | 9 | 29 | 90 | 66 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 203 |
| 12:00 PM | 0 | 0 | 6 | 34 | 70 | 40 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| 1:00 | 0 | 0 | 5 | 40 | 80 | 48 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 178 |
| 2:00 | 0 | 0 | 3 | 29 | 78 | 46 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 166 |
| 3:00 | 0 | 0 | 5 | 12 | 48 | 44 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 116 |
| 4:00 | 0 | 0 | 1 | 7 | 39 | 34 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 92 |
| 5:00 | 0 | 0 | 0 | 20 | 31 | 21 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 81 |
| 6:00 | 0 | 0 | 0 | 7 | 26 | 19 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 7:00 | 0 | 0 | 0 | 1 | 29 | 32 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 65 |
| 8:00 | 0 | 0 | 4 | 9 | 23 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 9:00 | 0 | 0 | 1 | 3 | 15 | 20 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 45 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 10 | 4 | 56 | 352 | 1034 | 735 | 116 | 8 | 1 | 0 | 0 | 0 | 0 | 2316 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 10 | 7 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 1 | 9 | 28 | 30 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 76 |
| 7:00 | 0 | 0 | 0 | 12 | 45 | 36 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| 8:00 | 0 | 0 | 1 | 12 | 62 | 54 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 137 |
| 9:00 | 0 | 0 | 5 | 23 | 70 | 41 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 10:00 | 1 | 0 | 5 | 38 | 77 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 172 |
| 11:00 | 0 | 1 | 8 | 41 | 85 | 37 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| 12:00 PM | 0 | 0 | 4 | 51 | 64 | 35 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 163 |
| 1:00 | 0 | 0 | 5 | 25 | 72 | 42 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| 2:00 | 0 | 1 | 5 | 18 | 90 | 45 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| 3:00 | 0 | 1 | 5 | 32 | 84 | 53 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 191 |
| 4:00 | 0 | 0 | 2 | 29 | 109 | 51 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| 5:00 | 0 | 0 | 2 | 27 | 97 | 54 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 6:00 | 0 | 1 | 3 | 23 | 44 | 52 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 143 |
| 7:00 | 0 | 0 | 0 | 3 | 26 | 30 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 2 | 8 | 22 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 0 | 0 | 0 | 7 | 11 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 1 | 4 | 46 | 363 | 988 | 660 | 143 | 12 | 1 | 0 | 0 | 0 | 0 | 2218 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 2 | 10 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 6:00 | 0 | 0 | 0 | 3 | 16 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 7:00 | 0 | 0 | 2 | 9 | 34 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 2 | 8 | 37 | 22 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 79 |
| 9:00 | 0 | 0 | 1 | 11 | 25 | 37 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 10:00 | 1 | 0 | 2 | 17 | 78 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| 11:00 | 0 | 1 | 10 | 36 | 56 | 28 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 134 |
| 12:00 PM | 1 | 3 | 7 | 27 | 54 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| 1:00 | 2 | 1 | 3 | 20 | 82 | 36 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 2:00 | 0 | 0 | 1 | 24 | 47 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| 3:00 | 0 | 1 | 3 | 28 | 39 | 39 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 117 |
| 4:00 | 0 | 0 | 1 | 22 | 53 | 35 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 119 |
| 5:00 | 0 | 0 | 2 | 10 | 44 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 6:00 | 1 | 0 | 0 | 1 | 16 | 20 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 43 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 8:00 | 0 | 0 | 0 | 4 | 9 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 9:00 | 0 | 0 | 0 | 1 | 7 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 5 | 6 | 35 | 228 | 628 | 416 | 91 | 7 | 0 | 1 | 0 | 0 | 0 | 1417 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 9 | 15 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 1 | 26 | 52 | 39 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| 7:00 | 0 | 0 | 14 | 58 | 94 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 |
| 8:00 | 0 | 0 | 11 | 46 | 94 | 39 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 195 |
| 9:00 | 0 | 0 | 0 | 36 | 123 | 43 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 205 |
| 10:00 | 0 | 0 | 1 | 23 | 85 | 41 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 161 |
| 11:00 | 0 | 0 | 1 | 37 | 81 | 45 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| 12:00 PM | 0 | 0 | 4 | 31 | 78 | 47 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 1:00 | 0 | 4 | 6 | 45 | 63 | 27 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 2:00 | 0 | 1 | 7 | 34 | 90 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 159 |
| 3:00 | 1 | 0 | 2 | 17 | 61 | 34 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 124 |
| 4:00 | 1 | 0 | 6 | 10 | 37 | 34 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 5:00 | 0 | 0 | 1 | 11 | 44 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 6:00 | 0 | 0 | 0 | 2 | 16 | 23 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 46 |
| 7:00 | 0 | 0 | 0 | 1 | 9 | 22 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 41 |
| 8:00 | 0 | 0 | 0 | 6 | 7 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 9:00 | 0 | 0 | 0 | 3 | 4 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| 10:00 | 0 | 0 | 1 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 2 | 5 | 55 | 399 | 958 | 496 | 90 | 9 | 0 | 0 | 0 | 0 | 0 | 2014 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southeast Bound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 1 | 3 | 9 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 6:00 | 0 | 0 | 4 | 19 | 63 | 60 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| 7:00 | 0 | 0 | 13 | 42 | 104 | 46 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
| 8:00 | 0 | 0 | 7 | 42 | 140 | 51 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 244 |
| 9:00 | 2 | 3 | 3 | 43 | 127 | 53 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| 10:00 | 0 | 0 | 1 | 40 | 99 | 50 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 197 |
| 11:00 | 1 | 2 | 7 | 46 | 104 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 195 |
| 12:00 PM | 0 | 3 | 10 | 49 | 77 | 36 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 179 |
| 1:00 | 1 | 0 | 10 | 51 | 83 | 26 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 173 |
| 2:00 | 0 | 1 | 9 | 40 | 57 | 27 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| 3:00 | 0 | 1 | 2 | 27 | 59 | 38 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 133 |
| 4:00 | 0 | 0 | 5 | 20 | 41 | 22 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 5:00 | 0 | 0 | 0 | 13 | 46 | 16 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 78 |
| 6:00 | 0 | 0 | 0 | 0 | 12 | 27 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 49 |
| 7:00 | 0 | 0 | 0 | 0 | 9 | 12 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:00 | 0 | 0 | 1 | 1 | 11 | 14 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 31 |
| 9:00 | 0 | 0 | 1 | 2 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 10:00 | 0 | 0 | 0 | 2 | 1 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 4 | 10 | 74 | 440 | 1054 | 545 | 78 | 5 | 1 | 2 | 0 | 0 | 0 | 2213 |
| Grand Total | 161 | 210 | 1356 | 7859 | 19679 | 12823 | 2253 | 179 | 15 | 7 | 1 | 0 | 3 | 44546 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 28 | 32 | 37 | 39 |
| | Mean Speed (Average) | 33.7 | | | |
| | 10 MPH Pace Speed | 31-40 | | | |
| | Number in Pace | 32500 | | | |
| | Percent in Pace | 73.0% | | | |
| | Number > 35 MPH | 15281 | | | |
| | Percent > 35 MPH | 34.3% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 0 | 0 | 19 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 7:00 | 1 | 0 | 0 | 3 | 14 | 20 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 8:00 | 1 | 0 | 0 | 5 | 29 | 36 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 86 |
| 9:00 | 0 | 0 | 1 | 7 | 34 | 39 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 10:00 | 0 | 0 | 1 | 12 | 67 | 46 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 136 |
| 11:00 | 0 | 0 | 0 | 21 | 83 | 59 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 178 |
| 12:00 PM | 9 | 4 | 4 | 25 | 62 | 44 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 158 |
| 1:00 | 0 | 0 | 3 | 40 | 95 | 67 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 228 |
| 2:00 | 1 | 1 | 25 | 45 | 53 | 73 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 218 |
| 3:00 | 4 | 17 | 73 | 79 | 41 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| 4:00 | 0 | 7 | 45 | 84 | 72 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 232 |
| 5:00 | 3 | 12 | 38 | 61 | 53 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 6:00 | 0 | 0 | 1 | 9 | 39 | 46 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 114 |
| 7:00 | 0 | 0 | 0 | 2 | 21 | 26 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 8:00 | 0 | 0 | 1 | 5 | 11 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 0 | 0 | 0 | 1 | 15 | 45 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 79 |
| 10:00 | 0 | 0 | 3 | 0 | 15 | 23 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 11:00 | 0 | 0 | 0 | 2 | 3 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 19 | 41 | 195 | 404 | 732 | 610 | 178 | 15 | 2 | 0 | 0 | 0 | 0 | 2196 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 0 | 0 | 0 | 2 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 1 | 1 | 7 | 8 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 8:00 | 0 | 0 | 0 | 3 | 36 | 27 | 9 | 4 | 2 | 0 | 0 | 0 | 0 | 81 |
| 9:00 | 1 | 0 | 3 | 9 | 35 | 51 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 117 |
| 10:00 | 2 | 0 | 2 | 15 | 60 | 53 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 150 |
| 11:00 | 0 | 0 | 1 | 20 | 76 | 74 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 186 |
| 12:00 PM | 0 | 1 | 2 | 13 | 63 | 67 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 166 |
| 1:00 | 2 | 1 | 7 | 23 | 80 | 73 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 198 |
| 2:00 | 0 | 2 | 7 | 31 | 99 | 93 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 246 |
| 3:00 | 1 | 0 | 5 | 36 | 117 | 76 | 10 | 4 | 1 | 0 | 0 | 0 | 0 | 250 |
| 4:00 | 1 | 0 | 0 | 21 | 89 | 91 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 213 |
| 5:00 | 0 | 0 | 2 | 22 | 78 | 62 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 179 |
| 6:00 | 0 | 0 | 0 | 12 | 70 | 60 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 155 |
| 7:00 | 0 | 0 | 0 | 1 | 19 | 32 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 65 |
| 8:00 | 0 | 0 | 0 | 1 | 12 | 17 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 0 | 0 | 0 | 2 | 13 | 45 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 74 |
| 10:00 | 0 | 0 | 0 | 1 | 11 | 10 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 33 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 7 | 5 | 30 | 220 | 890 | 872 | 192 | 29 | 4 | 0 | 0 | 0 | 0 | 2249 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 3 | 0 | 0 | 1 | 13 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 30 |
| 7:00 | 0 | 0 | 0 | 6 | 23 | 17 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 53 |
| 8:00 | 0 | 0 | 2 | 10 | 17 | 24 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 64 |
| 9:00 | 2 | 0 | 1 | 13 | 52 | 50 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 131 |
| 10:00 | 1 | 1 | 1 | 4 | 63 | 59 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 140 |
| 11:00 | 1 | 0 | 0 | 18 | 77 | 60 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 175 |
| 12:00 PM | 0 | 1 | 4 | 17 | 85 | 75 | 14 | 1 | 0 | 0 | 1 | 0 | 0 | 198 |
| 1:00 | 1 | 0 | 0 | 10 | 83 | 80 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 190 |
| 2:00 | 0 | 0 | 0 | 20 | 84 | 110 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 231 |
| 3:00 | 0 | 0 | 4 | 36 | 96 | 96 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 267 |
| 4:00 | 0 | 0 | 0 | 3 | 58 | 80 | 31 | 6 | 0 | 0 | 0 | 0 | 0 | 178 |
| 5:00 | 0 | 0 | 0 | 18 | 69 | 70 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 177 |
| 6:00 | 0 | 0 | 1 | 7 | 52 | 50 | 23 | 3 | 0 | 0 | 0 | 0 | 0 | 136 |
| 7:00 | 0 | 0 | 0 | 1 | 26 | 35 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 73 |
| 8:00 | 0 | 0 | 0 | 0 | 8 | 20 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 36 |
| 9:00 | 0 | 0 | 0 | 5 | 17 | 21 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 62 |
| 10:00 | 0 | 0 | 0 | 3 | 20 | 14 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 50 |
| 11:00 | 0 | 1 | 2 | 1 | 8 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 8 | 3 | 15 | 174 | 859 | 884 | 253 | 34 | 2 | 0 | 1 | 0 | 0 | 2233 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 1 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 6:00 | 0 | 0 | 1 | 2 | 6 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 0 | 6 | 19 | 16 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 8:00 | 0 | 0 | 1 | 3 | 29 | 34 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 84 |
| 9:00 | 0 | 0 | 2 | 9 | 56 | 22 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 101 |
| 10:00 | 2 | 0 | 0 | 16 | 59 | 53 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 141 |
| 11:00 | 0 | 2 | 8 | 31 | 68 | 54 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 176 |
| 12:00 PM | 0 | 0 | 1 | 10 | 59 | 53 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 124 |
| 1:00 | 0 | 0 | 2 | 17 | 72 | 45 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 146 |
| 2:00 | 1 | 1 | 3 | 20 | 90 | 48 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 180 |
| 3:00 | 0 | 0 | 3 | 22 | 78 | 70 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 185 |
| 4:00 | 0 | 0 | 3 | 30 | 54 | 48 | 16 | 2 | 4 | 0 | 0 | 0 | 0 | 157 |
| 5:00 | 0 | 0 | 6 | 13 | 67 | 49 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 148 |
| 6:00 | 0 | 1 | 2 | 22 | 56 | 37 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |
| 7:00 | 0 | 0 | 0 | 2 | 30 | 47 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 90 |
| 8:00 | 0 | 0 | 0 | 5 | 30 | 38 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 81 |
| 9:00 | 0 | 0 | 0 | 5 | 16 | 40 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 69 |
| 10:00 | 0 | 0 | 0 | 0 | 11 | 33 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 59 |
| 11:00 | 0 | 0 | 0 | 1 | 7 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Total | 3 | 4 | 33 | 215 | 816 | 723 | 160 | 29 | 6 | 0 | 0 | 0 | 0 | 1989 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 2 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 6:00 | 0 | 0 | 1 | 2 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 7:00 | 0 | 0 | 0 | 3 | 8 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 27 |
| 8:00 | 0 | 0 | 0 | 4 | 29 | 25 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 69 |
| 9:00 | 1 | 0 | 1 | 11 | 54 | 39 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 122 |
| 10:00 | 1 | 0 | 5 | 23 | 57 | 38 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 129 |
| 11:00 | 0 | 0 | 2 | 17 | 69 | 31 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 126 |
| 12:00 PM | 0 | 1 | 1 | 22 | 84 | 39 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 155 |
| 1:00 | 1 | 0 | 2 | 18 | 48 | 56 | 4 | 2 | 0 | 0 | 0 | 0 | 1 | 132 |
| 2:00 | 1 | 2 | 3 | 30 | 78 | 34 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 160 |
| 3:00 | 0 | 0 | 4 | 25 | 59 | 68 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 166 |
| 4:00 | 0 | 3 | 10 | 36 | 74 | 38 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 168 |
| 5:00 | 0 | 0 | 10 | 38 | 57 | 39 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 148 |
| 6:00 | 0 | 0 | 0 | 16 | 55 | 36 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 115 |
| 7:00 | 0 | 0 | 0 | 9 | 27 | 32 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 1 | 1 | 12 | 16 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 38 |
| 9:00 | 0 | 0 | 1 | 0 | 20 | 30 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 65 |
| 10:00 | 0 | 0 | 0 | 3 | 16 | 28 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 59 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 4 | 6 | 41 | 260 | 770 | 580 | 127 | 27 | 4 | 0 | 0 | 0 | 1 | 1820 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 1 | 4 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 2 | 10 | 18 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 8:00 | 1 | 0 | 0 | 12 | 31 | 29 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 82 |
| 9:00 | 1 | 0 | 1 | 22 | 83 | 34 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 148 |
| 10:00 | 0 | 1 | 7 | 27 | 78 | 46 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 171 |
| 11:00 | 0 | 0 | 1 | 25 | 93 | 61 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 191 |
| 12:00 PM | 0 | 0 | 4 | 45 | 82 | 45 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 187 |
| 1:00 | 0 | 0 | 1 | 27 | 96 | 44 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 185 |
| 2:00 | 3 | 1 | 0 | 39 | 101 | 62 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 226 |
| 3:00 | 2 | 0 | 2 | 32 | 96 | 88 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 237 |
| 4:00 | 0 | 0 | 2 | 40 | 104 | 61 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 222 |
| 5:00 | 0 | 1 | 6 | 32 | 99 | 59 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 212 |
| 6:00 | 1 | 1 | 0 | 14 | 53 | 53 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 131 |
| 7:00 | 1 | 0 | 0 | 4 | 20 | 32 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 74 |
| 8:00 | 0 | 0 | 0 | 4 | 20 | 22 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 59 |
| 9:00 | 0 | 0 | 0 | 1 | 14 | 30 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 55 |
| 10:00 | 0 | 0 | 0 | 1 | 10 | 29 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 51 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 32 |
| Total | 9 | 4 | 26 | 340 | 1011 | 754 | 195 | 27 | 1 | 0 | 0 | 0 | 0 | 2367 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 1 | 0 | 0 | 3 | 6 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 23 |
| 7:00 | 0 | 0 | 0 | 1 | 26 | 23 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 8:00 | 0 | 0 | 0 | 14 | 35 | 40 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 98 |
| 9:00 | 8 | 0 | 0 | 29 | 60 | 49 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 157 |
| 10:00 | 1 | 0 | 5 | 44 | 73 | 55 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 192 |
| 11:00 | 1 | 2 | 0 | 29 | 99 | 74 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 215 |
| 12:00 PM | 4 | 1 | 13 | 34 | 88 | 73 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 227 |
| 1:00 | 2 | 0 | 1 | 43 | 105 | 84 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 249 |
| 2:00 | 0 | 0 | 4 | 49 | 144 | 56 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 267 |
| 3:00 | 0 | 2 | 6 | 39 | 131 | 83 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 280 |
| 4:00 | 2 | 1 | 0 | 28 | 96 | 71 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 208 |
| 5:00 | 1 | 1 | 2 | 24 | 90 | 61 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 195 |
| 6:00 | 0 | 0 | 0 | 12 | 81 | 75 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 187 |
| 7:00 | 0 | 0 | 0 | 8 | 28 | 46 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| 8:00 | 0 | 0 | 0 | 3 | 19 | 41 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 80 |
| 9:00 | 0 | 0 | 0 | 2 | 15 | 25 | 19 | 3 | 1 | 0 | 0 | 0 | 0 | 65 |
| 10:00 | 0 | 0 | 0 | 2 | 15 | 31 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 69 |
| 11:00 | 0 | 0 | 0 | 0 | 10 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 20 | 7 | 31 | 367 | 1131 | 913 | 221 | 27 | 2 | 0 | 0 | 0 | 0 | 2719 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 0 | 0 | 1 | 0 | 6 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 0 | 1 | 2 | 7 | 15 | 21 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 58 |
| 8:00 | 2 | 0 | 1 | 11 | 38 | 33 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 91 |
| 9:00 | 0 | 0 | 4 | 19 | 65 | 48 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
| 10:00 | 0 | 0 | 3 | 28 | 84 | 62 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 11:00 | 1 | 0 | 0 | 38 | 80 | 49 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 179 |
| 12:00 PM | 0 | 0 | 4 | 34 | 67 | 77 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 198 |
| 1:00 | 0 | 0 | 0 | 26 | 84 | 69 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 196 |
| 2:00 | 0 | 0 | 2 | 35 | 93 | 77 | 22 | 1 | 2 | 0 | 0 | 0 | 0 | 232 |
| 3:00 | 2 | 1 | 3 | 32 | 108 | 84 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 249 |
| 4:00 | 0 | 0 | 0 | 22 | 80 | 73 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 191 |
| 5:00 | 0 | 1 | 4 | 34 | 77 | 31 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 161 |
| 6:00 | 0 | 0 | 1 | 10 | 56 | 77 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 163 |
| 7:00 | 0 | 0 | 0 | 4 | 43 | 28 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 85 |
| 8:00 | 0 | 0 | 0 | 2 | 22 | 14 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 9:00 | 0 | 0 | 1 | 3 | 18 | 43 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 76 |
| 10:00 | 0 | 0 | 1 | 6 | 14 | 33 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 11:00 | 0 | 0 | 0 | 0 | 10 | 14 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total | 5 | 3 | 27 | 314 | 967 | 855 | 204 | 24 | 3 | 0 | 0 | 0 | 0 | 2402 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 1 | 3 | 4 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 2 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 0 | 0 | 2 | 9 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 0 | 0 | 4 | 10 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 8:00 | 0 | 0 | 0 | 5 | 16 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 0 | 3 | 2 | 11 | 25 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:00 | 1 | 1 | 3 | 16 | 41 | 23 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| 11:00 | 3 | 2 | 4 | 16 | 42 | 27 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 102 |
| 12:00 PM | 0 | 0 | 4 | 10 | 48 | 31 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 101 |
| 1:00 | 1 | 2 | 0 | 15 | 53 | 32 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| 2:00 | 1 | 1 | 5 | 49 | 73 | 36 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 171 |
| 3:00 | 0 | 0 | 2 | 42 | 60 | 32 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 143 |
| 4:00 | 0 | 0 | 4 | 38 | 50 | 24 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 129 |
| 5:00 | 1 | 0 | 3 | 16 | 45 | 36 | 8 | 3 | 0 | 0 | 0 | 1 | 0 | 113 |
| 6:00 | 0 | 0 | 2 | 5 | 37 | 46 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 101 |
| 7:00 | 0 | 1 | 4 | 9 | 26 | 16 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 8:00 | 0 | 0 | 1 | 6 | 19 | 31 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 2 | 17 | 26 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 10:00 | 0 | 0 | 0 | 5 | 10 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 34 |
| 11:00 | 0 | 0 | 0 | 1 | 7 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 7 | 10 | 35 | 255 | 605 | 445 | 129 | 13 | 2 | 0 | 0 | 1 | 0 | 1502 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 1 | 9 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 6:00 | 1 | 0 | 0 | 1 | 8 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 7:00 | 1 | 0 | 2 | 8 | 28 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 8:00 | 0 | 3 | 4 | 18 | 44 | 18 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 93 |
| 9:00 | 0 | 0 | 3 | 39 | 57 | 31 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 136 |
| 10:00 | 3 | 7 | 22 | 70 | 53 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| 11:00 | 5 | 5 | 27 | 77 | 52 | 11 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 180 |
| 12:00 PM | 2 | 3 | 17 | 80 | 79 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 206 |
| 1:00 | 2 | 1 | 7 | 60 | 69 | 39 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 181 |
| 2:00 | 2 | 3 | 5 | 47 | 119 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 207 |
| 3:00 | 1 | 4 | 26 | 81 | 79 | 21 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 215 |
| 4:00 | 2 | 3 | 21 | 70 | 78 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| 5:00 | 0 | 0 | 7 | 56 | 56 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 149 |
| 6:00 | 2 | 0 | 4 | 39 | 69 | 43 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 168 |
| 7:00 | 0 | 0 | 2 | 37 | 134 | 69 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 252 |
| 8:00 | 0 | 0 | 5 | 28 | 56 | 41 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 137 |
| 9:00 | 0 | 0 | 0 | 11 | 71 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 10:00 | 0 | 0 | 1 | 9 | 28 | 34 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 86 |
| 11:00 | 0 | 0 | 1 | 1 | 12 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Total | 21 | 29 | 154 | 736 | 1102 | 512 | 80 | 13 | 0 | 0 | 0 | 0 | 0 | 2647 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 3 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 13 |
| 1:00 | 0 | 0 | 0 | 1 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 3 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 6:00 | 0 | 0 | 1 | 2 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 7:00 | 0 | 0 | 0 | 3 | 16 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 8:00 | 2 | 0 | 0 | 11 | 39 | 37 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 94 |
| 9:00 | 0 | 0 | 1 | 26 | 47 | 28 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| 10:00 | 3 | 9 | 35 | 84 | 46 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 11:00 | 1 | 3 | 6 | 46 | 35 | 15 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 112 |
| 12:00 PM | 1 | 4 | 4 | 21 | 64 | 34 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 135 |
| 1:00 | 0 | 0 | 2 | 32 | 98 | 59 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 203 |
| 2:00 | 4 | 8 | 28 | 84 | 45 | 17 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 191 |
| 3:00 | 14 | 8 | 30 | 61 | 60 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 193 |
| 4:00 | 25 | 9 | 6 | 25 | 81 | 45 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 200 |
| 5:00 | 0 | 0 | 1 | 35 | 87 | 35 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 165 |
| 6:00 | 0 | 0 | 2 | 15 | 81 | 42 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 151 |
| 7:00 | 0 | 0 | 7 | 11 | 39 | 25 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 84 |
| 8:00 | 0 | 0 | 0 | 10 | 34 | 18 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 0 | 0 | 3 | 39 | 35 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 87 |
| 10:00 | 0 | 0 | 0 | 5 | 26 | 22 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 1 | 4 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 50 | 41 | 124 | 483 | 863 | 503 | 111 | 10 | 1 | 0 | 0 | 0 | 0 | 2186 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 1 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 1 | 0 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 0 | 2 | 8 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 0 | 0 | 1 | 3 | 16 | 19 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 8:00 | 1 | 0 | 2 | 7 | 27 | 27 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 2 | 4 | 11 | 38 | 30 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 97 |
| 10:00 | 0 | 0 | 3 | 17 | 61 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 129 |
| 11:00 | 0 | 0 | 3 | 23 | 49 | 34 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 122 |
| 12:00 PM | 0 | 1 | 5 | 17 | 76 | 53 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 159 |
| 1:00 | 0 | 0 | 3 | 23 | 59 | 36 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 134 |
| 2:00 | 0 | 0 | 8 | 31 | 82 | 37 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 167 |
| 3:00 | 0 | 0 | 6 | 21 | 65 | 39 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 145 |
| 4:00 | 0 | 3 | 3 | 17 | 74 | 42 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 155 |
| 5:00 | 0 | 0 | 2 | 25 | 110 | 45 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 192 |
| 6:00 | 0 | 0 | 2 | 16 | 48 | 22 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 91 |
| 7:00 | 0 | 0 | 1 | 3 | 18 | 13 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 0 | 0 | 0 | 4 | 11 | 18 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 39 |
| 9:00 | 0 | 0 | 0 | 4 | 11 | 18 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 10:00 | 0 | 0 | 0 | 2 | 5 | 16 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 29 |
| 11:00 | 0 | 0 | 0 | 1 | 5 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 1 | 7 | 45 | 231 | 779 | 513 | 131 | 18 | 0 | 0 | 0 | 0 | 0 | 1725 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 1 | 6 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 6:00 | 0 | 0 | 1 | 2 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 0 | 0 | 1 | 3 | 19 | 21 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 52 |
| 8:00 | 0 | 0 | 0 | 16 | 22 | 21 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 68 |
| 9:00 | 0 | 0 | 5 | 26 | 35 | 34 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 111 |
| 10:00 | 0 | 3 | 0 | 24 | 65 | 48 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 11:00 | 1 | 1 | 8 | 34 | 66 | 39 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 154 |
| 12:00 PM | 0 | 0 | 0 | 22 | 65 | 49 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 1:00 | 4 | 0 | 3 | 52 | 89 | 35 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 2:00 | 1 | 0 | 5 | 55 | 101 | 61 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 236 |
| 3:00 | 0 | 0 | 4 | 45 | 111 | 72 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 246 |
| 4:00 | 1 | 0 | 2 | 24 | 76 | 84 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 201 |
| 5:00 | 0 | 0 | 2 | 20 | 59 | 51 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 148 |
| 6:00 | 0 | 0 | 0 | 4 | 38 | 54 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 103 |
| 7:00 | 0 | 0 | 0 | 6 | 23 | 19 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 60 |
| 8:00 | 0 | 0 | 0 | 5 | 4 | 19 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 35 |
| 9:00 | 0 | 0 | 0 | 0 | 20 | 19 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 10:00 | 0 | 0 | 0 | 0 | 11 | 7 | 7 | 2 | 0 | 1 | 0 | 0 | 0 | 28 |
| 11:00 | 0 | 0 | 0 | 1 | 3 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 7 | 4 | 32 | 346 | 817 | 658 | 145 | 18 | 1 | 2 | 0 | 0 | 0 | 2030 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 2 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 0 | 0 | 1 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 7:00 | 1 | 0 | 0 | 2 | 17 | 25 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 51 |
| 8:00 | 0 | 0 | 2 | 11 | 31 | 24 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 77 |
| 9:00 | 0 | 0 | 2 | 18 | 41 | 29 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| 10:00 | 0 | 0 | 4 | 33 | 57 | 37 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 140 |
| 11:00 | 2 | 0 | 0 | 16 | 84 | 64 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 179 |
| 12:00 PM | 1 | 1 | 1 | 18 | 89 | 57 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 1:00 | 0 | 0 | 3 | 30 | 123 | 66 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| 2:00 | 0 | 0 | 0 | 8 | 114 | 88 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 229 |
| 3:00 | 1 | 0 | 0 | 31 | 104 | 86 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 239 |
| 4:00 | 0 | 0 | 0 | 13 | 67 | 92 | 28 | 4 | 1 | 0 | 0 | 0 | 0 | 205 |
| 5:00 | 0 | 0 | 0 | 24 | 64 | 51 | 22 | 0 | 0 | 1 | 0 | 0 | 0 | 162 |
| 6:00 | 0 | 0 | 0 | 10 | 46 | 46 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 110 |
| 7:00 | 0 | 0 | 1 | 4 | 13 | 20 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 8:00 | 0 | 0 | 0 | 5 | 12 | 20 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 46 |
| 9:00 | 0 | 0 | 0 | 3 | 24 | 24 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 10:00 | 0 | 0 | 0 | 0 | 12 | 7 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 28 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 5 | 1 | 13 | 230 | 918 | 756 | 193 | 21 | 4 | 1 | 0 | 0 | 0 | 2142 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 0 | 0 | 0 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 0 | 1 | 0 | 4 | 13 | 19 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 1 | 1 | 0 | 3 | 25 | 18 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 65 |
| 9:00 | 0 | 0 | 3 | 17 | 36 | 44 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 112 |
| 10:00 | 1 | 0 | 0 | 10 | 55 | 58 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 141 |
| 11:00 | 0 | 0 | 4 | 21 | 66 | 57 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 165 |
| 12:00 PM | 0 | 1 | 1 | 13 | 80 | 71 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 184 |
| 1:00 | 1 | 0 | 0 | 18 | 74 | 84 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 197 |
| 2:00 | 3 | 0 | 3 | 28 | 84 | 94 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 232 |
| 3:00 | 2 | 0 | 0 | 11 | 108 | 95 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 236 |
| 4:00 | 2 | 0 | 6 | 25 | 65 | 72 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 195 |
| 5:00 | 0 | 0 | 1 | 19 | 72 | 64 | 20 | 4 | 1 | 0 | 0 | 0 | 0 | 181 |
| 6:00 | 0 | 0 | 0 | 12 | 35 | 46 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 106 |
| 7:00 | 0 | 0 | 0 | 10 | 54 | 30 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| 8:00 | 0 | 0 | 0 | 3 | 16 | 20 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 46 |
| 9:00 | 0 | 0 | 0 | 3 | 18 | 32 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 66 |
| 10:00 | 0 | 0 | 1 | 1 | 5 | 20 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 43 |
| 11:00 | 0 | 0 | 0 | 2 | 3 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 10 | 3 | 19 | 202 | 829 | 843 | 228 | 33 | 4 | 0 | 0 | 0 | 0 | 2171 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 0 | 0 | 0 | 2 | 7 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 7:00 | 0 | 0 | 0 | 4 | 17 | 22 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 8:00 | 0 | 0 | 0 | 4 | 20 | 33 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 73 |
| 9:00 | 1 | 0 | 2 | 8 | 29 | 36 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 91 |
| 10:00 | 0 | 0 | 0 | 10 | 48 | 43 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 121 |
| 11:00 | 1 | 0 | 1 | 26 | 85 | 50 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 173 |
| 12:00 PM | 0 | 0 | 0 | 19 | 74 | 59 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 170 |
| 1:00 | 1 | 0 | 2 | 14 | 75 | 70 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 173 |
| 2:00 | 0 | 0 | 1 | 28 | 110 | 101 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 252 |
| 3:00 | 0 | 0 | 0 | 43 | 93 | 83 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 239 |
| 4:00 | 0 | 0 | 1 | 14 | 80 | 71 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 192 |
| 5:00 | 1 | 5 | 6 | 30 | 84 | 57 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 196 |
| 6:00 | 0 | 0 | 0 | 7 | 52 | 41 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 108 |
| 7:00 | 0 | 0 | 0 | 4 | 39 | 24 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 76 |
| 8:00 | 0 | 0 | 0 | 2 | 12 | 19 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 0 | 0 | 0 | 2 | 20 | 30 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 10:00 | 0 | 0 | 0 | 6 | 9 | 11 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 10 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 4 | 5 | 13 | 223 | 867 | 779 | 199 | 28 | 1 | 0 | 0 | 0 | 0 | 2119 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 2 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 0 | 0 | 2 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 0 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 8:00 | 0 | 0 | 0 | 10 | 26 | 52 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 106 |
| 9:00 | 0 | 2 | 3 | 10 | 47 | 45 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
| 10:00 | 2 | 0 | 2 | 30 | 62 | 61 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 171 |
| 11:00 | 0 | 0 | 6 | 26 | 69 | 78 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 190 |
| 12:00 PM | 1 | 0 | 1 | 18 | 72 | 69 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 181 |
| 1:00 | 0 | 0 | 2 | 21 | 72 | 69 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 177 |
| 2:00 | 1 | 0 | 1 | 29 | 106 | 77 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 233 |
| 3:00 | 3 | 0 | 13 | 31 | 104 | 100 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 273 |
| 4:00 | 1 | 1 | 1 | 16 | 68 | 93 | 27 | 2 | 1 | 0 | 0 | 0 | 0 | 210 |
| 5:00 | 0 | 0 | 0 | 4 | 51 | 69 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 143 |
| 6:00 | 0 | 0 | 1 | 1 | 51 | 43 | 7 | 2 | 0 | 2 | 0 | 0 | 0 | 107 |
| 7:00 | 0 | 0 | 0 | 9 | 18 | 28 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 61 |
| 8:00 | 0 | 0 | 2 | 1 | 34 | 26 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 68 |
| 9:00 | 0 | 0 | 1 | 10 | 23 | 26 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 10:00 | 0 | 0 | 1 | 8 | 18 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 11:00 | 0 | 0 | 0 | 1 | 5 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 8 | 3 | 34 | 241 | 866 | 906 | 206 | 23 | 1 | 2 | 0 | 0 | 0 | 2290 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 3 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 1 | 4 | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 16 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 8:00 | 0 | 0 | 0 | 4 | 18 | 35 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 0 | 0 | 11 | 31 | 34 | 15 | 0 | 1 | 0 | 0 | 0 | 0 | 92 |
| 10:00 | 0 | 0 | 1 | 10 | 42 | 31 | 15 | 2 | 0 | 0 | 0 | 0 | 1 | 102 |
| 11:00 | 0 | 1 | 0 | 21 | 48 | 46 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 125 |
| 12:00 PM | 0 | 0 | 0 | 24 | 63 | 55 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 154 |
| 1:00 | 0 | 0 | 4 | 22 | 85 | 47 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 174 |
| 2:00 | 0 | 1 | 3 | 18 | 82 | 53 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| 3:00 | 0 | 0 | 0 | 30 | 89 | 56 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 180 |
| 4:00 | 0 | 0 | 3 | 27 | 59 | 55 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 156 |
| 5:00 | 0 | 0 | 1 | 25 | 61 | 31 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 126 |
| 6:00 | 0 | 0 | 1 | 27 | 83 | 34 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 159 |
| 7:00 | 0 | 0 | 7 | 33 | 73 | 42 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 165 |
| 8:00 | 0 | 0 | 0 | 23 | 84 | 52 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 164 |
| 9:00 | 0 | 0 | 0 | 18 | 68 | 59 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 152 |
| 10:00 | 0 | 1 | 0 | 4 | 27 | 22 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 11:00 | 0 | 0 | 0 | 0 | 15 | 9 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 33 |
| Total | 0 | 3 | 21 | 307 | 966 | 691 | 175 | 18 | 3 | 0 | 0 | 0 | 1 | 2185 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 3:00 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:00 | 0 | 0 | 0 | 1 | 6 | 22 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 8:00 | 0 | 0 | 0 | 2 | 28 | 19 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 58 |
| 9:00 | 0 | 0 | 2 | 15 | 46 | 29 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 104 |
| 10:00 | 0 | 0 | 1 | 9 | 38 | 49 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 108 |
| 11:00 | 2 | 1 | 1 | 20 | 41 | 38 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 113 |
| 12:00 PM | 0 | 1 | 3 | 34 | 66 | 39 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 152 |
| 1:00 | 0 | 0 | 2 | 21 | 71 | 42 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 141 |
| 2:00 | 1 | 0 | 1 | 8 | 64 | 47 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 135 |
| 3:00 | 0 | 0 | 1 | 17 | 53 | 40 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 122 |
| 4:00 | 0 | 0 | 3 | 24 | 43 | 28 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 111 |
| 5:00 | 0 | 0 | 0 | 18 | 44 | 53 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| 6:00 | 0 | 0 | 0 | 6 | 50 | 40 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 111 |
| 7:00 | 0 | 0 | 0 | 4 | 14 | 18 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 43 |
| 8:00 | 0 | 0 | 0 | 11 | 17 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 2 | 12 | 25 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 48 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 14 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 36 |
| 11:00 | 0 | 0 | 0 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 3 | 3 | 14 | 196 | 624 | 546 | 139 | 21 | 4 | 0 | 0 | 0 | 0 | 1550 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 1 | 0 | 2 | 1 | 9 | 22 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 44 |
| 8:00 | 0 | 0 | 0 | 10 | 29 | 28 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 78 |
| 9:00 | 0 | 0 | 1 | 14 | 53 | 34 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 10:00 | 0 | 0 | 0 | 23 | 71 | 38 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 143 |
| 11:00 | 3 | 0 | 2 | 19 | 65 | 55 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 158 |
| 12:00 PM | 0 | 0 | 3 | 22 | 73 | 54 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 166 |
| 1:00 | 0 | 2 | 8 | 39 | 96 | 51 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 204 |
| 2:00 | 0 | 1 | 1 | 34 | 108 | 72 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 233 |
| 3:00 | 0 | 2 | 8 | 37 | 129 | 57 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 240 |
| 4:00 | 2 | 0 | 2 | 21 | 70 | 53 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 176 |
| 5:00 | 0 | 0 | 1 | 13 | 55 | 59 | 11 | 7 | 1 | 0 | 0 | 0 | 0 | 147 |
| 6:00 | 0 | 0 | 1 | 6 | 46 | 46 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 108 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 8:00 | 0 | 0 | 0 | 3 | 12 | 15 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 35 |
| 9:00 | 0 | 0 | 0 | 0 | 12 | 24 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 46 |
| 10:00 | 0 | 0 | 0 | 1 | 11 | 12 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 6 | 5 | 29 | 248 | 869 | 659 | 163 | 29 | 2 | 0 | 0 | 0 | 0 | 2010 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northwest Bound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 2 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 16 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 8:00 | 0 | 0 | 1 | 4 | 27 | 29 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 0 | 2 | 21 | 49 | 36 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 124 |
| 10:00 | 0 | 0 | 3 | 32 | 68 | 56 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 177 |
| 11:00 | 0 | 0 | 2 | 46 | 85 | 39 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 185 |
| 12:00 PM | 0 | 0 | 6 | 46 | 104 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 204 |
| 1:00 | 0 | 0 | 3 | 32 | 116 | 64 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 225 |
| 2:00 | 0 | 1 | 20 | 63 | 119 | 48 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 261 |
| 3:00 | 0 | 1 | 3 | 31 | 111 | 75 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 235 |
| 4:00 | 0 | 0 | 0 | 26 | 80 | 72 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 192 |
| 5:00 | 1 | 0 | 3 | 20 | 83 | 49 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 168 |
| 6:00 | 0 | 0 | 1 | 8 | 36 | 54 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| 7:00 | 0 | 0 | 0 | 7 | 14 | 28 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 62 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 39 |
| 9:00 | 0 | 0 | 1 | 6 | 9 | 22 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 48 |
| 10:00 | 0 | 0 | 1 | 1 | 9 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 1 | 2 | 46 | 350 | 948 | 676 | 160 | 22 | 2 | 1 | 0 | 0 | 0 | 2208 |
| Grand Total | 198 | 189 | 977 | 6342 | 18229 | 14678 | 3589 | 479 | 49 | 6 | 1 | 1 | 2 | 44740 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 29 | 33 | 38 | 41 |
| | Mean Speed (Average) | 34.5 | | | |
| | 10 MPH Pace Speed | 31-40 | | | |
| | Number in Pace | 32900 | | | |
| | Percent in Pace | 74.0% | | | |
| | Number > 35 MPH | 18805 | | | |
| | Percent > 35 MPH | 42.0% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 1 | 13 | 8 | 22 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 53 |
| 6:00 | 1 | 0 | 5 | 34 | 79 | 63 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 191 |
| 7:00 | 2 | 0 | 3 | 26 | 98 | 115 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 270 |
| 8:00 | 1 | 0 | 5 | 42 | 151 | 108 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 331 |
| 9:00 | 0 | 1 | 2 | 44 | 128 | 115 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 311 |
| 10:00 | 1 | 1 | 5 | 40 | 177 | 105 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 348 |
| 11:00 | 0 | 0 | 1 | 71 | 196 | 124 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 414 |
| 12:00 PM | 16 | 8 | 23 | 48 | 100 | 69 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 278 |
| 1:00 | 0 | 1 | 6 | 79 | 163 | 103 | 32 | 0 | 0 | 0 | 0 | 0 | 1 | 385 |
| 2:00 | 4 | 3 | 32 | 67 | 101 | 116 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 348 |
| 3:00 | 8 | 28 | 103 | 122 | 61 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 349 |
| 4:00 | 9 | 10 | 59 | 112 | 97 | 26 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 316 |
| 5:00 | 9 | 23 | 56 | 93 | 76 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 279 |
| 6:00 | 0 | 0 | 1 | 10 | 54 | 67 | 20 | 4 | 2 | 0 | 0 | 0 | 0 | 158 |
| 7:00 | 0 | 0 | 0 | 5 | 31 | 47 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 98 |
| 8:00 | 0 | 0 | 1 | 7 | 22 | 24 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 0 | 0 | 1 | 26 | 48 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 96 |
| 10:00 | 0 | 0 | 3 | 0 | 21 | 28 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 0 | 2 | 6 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 51 | 75 | 306 | 816 | 1601 | 1237 | 281 | 20 | 3 | 0 | 0 | 0 | 1 | 4391 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 1 | 2 | 17 | 18 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 6 | 8 | 25 | 96 | 42 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 186 |
| 7:00 | 0 | 2 | 1 | 30 | 121 | 108 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 271 |
| 8:00 | 2 | 0 | 0 | 23 | 138 | 106 | 21 | 4 | 2 | 0 | 0 | 0 | 0 | 296 |
| 9:00 | 1 | 0 | 9 | 75 | 135 | 127 | 26 | 3 | 0 | 0 | 0 | 0 | 0 | 376 |
| 10:00 | 3 | 1 | 9 | 53 | 155 | 119 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 362 |
| 11:00 | 0 | 1 | 5 | 55 | 164 | 120 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 365 |
| 12:00 PM | 2 | 1 | 3 | 38 | 151 | 119 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 342 |
| 1:00 | 2 | 3 | 11 | 67 | 151 | 106 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 355 |
| 2:00 | 0 | 5 | 12 | 65 | 159 | 118 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 380 |
| 3:00 | 2 | 0 | 6 | 61 | 171 | 102 | 14 | 4 | 2 | 0 | 0 | 0 | 0 | 362 |
| 4:00 | 1 | 3 | 0 | 37 | 146 | 121 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 326 |
| 5:00 | 0 | 0 | 7 | 43 | 121 | 95 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 285 |
| 6:00 | 0 | 1 | 0 | 17 | 90 | 74 | 15 | 1 | 1 | 0 | 0 | 0 | 0 | 199 |
| 7:00 | 0 | 0 | 0 | 3 | 27 | 53 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 107 |
| 8:00 | 0 | 0 | 0 | 4 | 21 | 23 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 58 |
| 9:00 | 0 | 0 | 0 | 4 | 19 | 56 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 95 |
| 10:00 | 0 | 0 | 0 | 1 | 14 | 16 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 18 |
| Total | 13 | 23 | 72 | 604 | 1906 | 1542 | 298 | 33 | 5 | 0 | 0 | 0 | 0 | 4496 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 0 | 0 | 0 | 6 | 8 | 29 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 6:00 | 6 | 0 | 1 | 27 | 75 | 55 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 170 |
| 7:00 | 0 | 0 | 8 | 42 | 128 | 74 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 268 |
| 8:00 | 0 | 0 | 7 | 56 | 118 | 93 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 292 |
| 9:00 | 3 | 0 | 5 | 60 | 160 | 112 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 364 |
| 10:00 | 1 | 1 | 17 | 38 | 138 | 106 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 316 |
| 11:00 | 2 | 0 | 4 | 49 | 182 | 117 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 379 |
| 12:00 PM | 0 | 2 | 6 | 44 | 192 | 122 | 27 | 3 | 0 | 0 | 1 | 0 | 0 | 397 |
| 1:00 | 2 | 0 | 1 | 29 | 147 | 125 | 21 | 1 | 1 | 0 | 0 | 0 | 0 | 327 |
| 2:00 | 0 | 0 | 3 | 31 | 152 | 179 | 19 | 2 | 1 | 0 | 0 | 0 | 0 | 387 |
| 3:00 | 1 | 1 | 5 | 52 | 139 | 145 | 47 | 2 | 0 | 0 | 0 | 0 | 0 | 392 |
| 4:00 | 1 | 0 | 1 | 12 | 119 | 127 | 45 | 7 | 0 | 0 | 0 | 0 | 0 | 312 |
| 5:00 | 0 | 0 | 1 | 39 | 114 | 101 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 287 |
| 6:00 | 0 | 0 | 1 | 11 | 68 | 75 | 32 | 6 | 0 | 0 | 0 | 0 | 0 | 193 |
| 7:00 | 0 | 0 | 0 | 1 | 42 | 61 | 18 | 2 | 1 | 0 | 0 | 0 | 0 | 125 |
| 8:00 | 0 | 0 | 0 | 0 | 18 | 35 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 66 |
| 9:00 | 0 | 0 | 0 | 6 | 29 | 34 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 92 |
| 10:00 | 0 | 0 | 0 | 5 | 22 | 21 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 64 |
| 11:00 | 0 | 1 | 2 | 1 | 10 | 9 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 28 |
| Total | 16 | 5 | 62 | 510 | 1869 | 1624 | 394 | 46 | 3 | 0 | 1 | 0 | 0 | 4530 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 2 | 2 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 1:00 | 0 | 0 | 0 | 0 | 3 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 5 | 8 | 26 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 48 |
| 6:00 | 0 | 0 | 2 | 12 | 51 | 37 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 111 |
| 7:00 | 0 | 0 | 0 | 16 | 56 | 74 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 163 |
| 8:00 | 0 | 5 | 10 | 17 | 94 | 86 | 19 | 7 | 0 | 0 | 0 | 0 | 0 | 238 |
| 9:00 | 0 | 1 | 8 | 28 | 155 | 80 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 290 |
| 10:00 | 2 | 0 | 0 | 29 | 145 | 100 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 296 |
| 11:00 | 0 | 2 | 11 | 43 | 143 | 120 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 339 |
| 12:00 PM | 2 | 1 | 12 | 41 | 129 | 102 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 299 |
| 1:00 | 0 | 0 | 11 | 54 | 131 | 85 | 17 | 1 | 1 | 0 | 0 | 0 | 0 | 300 |
| 2:00 | 1 | 1 | 6 | 53 | 171 | 94 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 354 |
| 3:00 | 1 | 3 | 7 | 53 | 162 | 113 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 359 |
| 4:00 | 0 | 1 | 8 | 63 | 119 | 92 | 25 | 3 | 4 | 0 | 0 | 0 | 0 | 315 |
| 5:00 | 1 | 0 | 14 | 32 | 133 | 88 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 284 |
| 6:00 | 0 | 1 | 4 | 37 | 110 | 67 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 234 |
| 7:00 | 0 | 0 | 0 | 4 | 49 | 72 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 148 |
| 8:00 | 0 | 1 | 0 | 12 | 51 | 57 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 132 |
| 9:00 | 0 | 0 | 2 | 9 | 28 | 49 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 101 |
| 10:00 | 0 | 0 | 0 | 0 | 15 | 38 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 73 |
| 11:00 | 0 | 0 | 0 | 1 | 10 | 18 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| Total | 7 | 16 | 96 | 511 | 1774 | 1424 | 293 | 43 | 6 | 0 | 0 | 0 | 0 | 4170 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 2 | 8 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 3 | 15 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 43 |
| 6:00 | 0 | 0 | 2 | 8 | 23 | 24 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 62 |
| 7:00 | 0 | 0 | 2 | 3 | 30 | 60 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 102 |
| 8:00 | 0 | 0 | 1 | 16 | 62 | 65 | 19 | 5 | 1 | 0 | 0 | 0 | 0 | 169 |
| 9:00 | 2 | 0 | 1 | 23 | 98 | 65 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 220 |
| 10:00 | 2 | 0 | 9 | 60 | 151 | 78 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 311 |
| 11:00 | 0 | 1 | 7 | 78 | 141 | 60 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 302 |
| 12:00 PM | 1 | 3 | 7 | 68 | 162 | 77 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 328 |
| 1:00 | 4 | 0 | 3 | 59 | 142 | 110 | 9 | 2 | 0 | 0 | 0 | 0 | 1 | 330 |
| 2:00 | 1 | 3 | 13 | 65 | 151 | 73 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 324 |
| 3:00 | 0 | 0 | 5 | 47 | 116 | 117 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 309 |
| 4:00 | 0 | 4 | 12 | 61 | 136 | 74 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 300 |
| 5:00 | 1 | 1 | 12 | 71 | 98 | 71 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 264 |
| 6:00 | 0 | 0 | 0 | 17 | 81 | 60 | 16 | 0 | 1 | 0 | 0 | 0 | 0 | 175 |
| 7:00 | 0 | 0 | 0 | 10 | 39 | 51 | 19 | 3 | 0 | 1 | 0 | 0 | 0 | 123 |
| 8:00 | 0 | 0 | 1 | 3 | 28 | 32 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 76 |
| 9:00 | 0 | 0 | 1 | 2 | 27 | 40 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 87 |
| 10:00 | 0 | 0 | 0 | 4 | 19 | 30 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 70 |
| 11:00 | 0 | 0 | 0 | 0 | 4 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 11 | 12 | 76 | 603 | 1537 | 1126 | 253 | 36 | 5 | 1 | 0 | 0 | 1 | 3661 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 2 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 9 | 12 | 26 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 6:00 | 0 | 0 | 0 | 26 | 81 | 58 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| 7:00 | 0 | 0 | 3 | 38 | 118 | 105 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 279 |
| 8:00 | 1 | 0 | 5 | 47 | 135 | 105 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 308 |
| 9:00 | 2 | 0 | 3 | 67 | 198 | 91 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 370 |
| 10:00 | 1 | 2 | 12 | 70 | 163 | 93 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 361 |
| 11:00 | 0 | 0 | 11 | 62 | 187 | 109 | 18 | 4 | 0 | 0 | 0 | 0 | 0 | 391 |
| 12:00 PM | 2 | 0 | 8 | 78 | 186 | 104 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 398 |
| 1:00 | 0 | 0 | 4 | 61 | 173 | 90 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 347 |
| 2:00 | 3 | 2 | 0 | 57 | 172 | 118 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 382 |
| 3:00 | 2 | 0 | 6 | 42 | 153 | 142 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 369 |
| 4:00 | 0 | 0 | 3 | 76 | 160 | 93 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 348 |
| 5:00 | 0 | 1 | 8 | 54 | 153 | 91 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 324 |
| 6:00 | 1 | 2 | 1 | 26 | 70 | 87 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 205 |
| 7:00 | 1 | 0 | 0 | 6 | 39 | 61 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 135 |
| 8:00 | 0 | 0 | 0 | 4 | 39 | 42 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 100 |
| 9:00 | 0 | 0 | 0 | 4 | 21 | 36 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 76 |
| 10:00 | 0 | 0 | 0 | 2 | 13 | 35 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 63 |
| 11:00 | 0 | 0 | 0 | 0 | 7 | 15 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 38 |
| Total | 13 | 7 | 64 | 734 | 2086 | 1513 | 295 | 36 | 1 | 0 | 0 | 0 | 0 | 4749 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 3 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 4 | 11 | 25 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 6:00 | 1 | 0 | 5 | 50 | 88 | 41 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 193 |
| 7:00 | 0 | 0 | 2 | 19 | 135 | 113 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 300 |
| 8:00 | 1 | 0 | 0 | 56 | 158 | 130 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 363 |
| 9:00 | 8 | 0 | 5 | 77 | 204 | 101 | 15 | 1 | 1 | 0 | 0 | 0 | 0 | 412 |
| 10:00 | 1 | 0 | 11 | 79 | 195 | 108 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 417 |
| 11:00 | 1 | 2 | 15 | 98 | 225 | 127 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 480 |
| 12:00 PM | 5 | 1 | 19 | 75 | 188 | 132 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 441 |
| 1:00 | 4 | 2 | 3 | 75 | 175 | 137 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 423 |
| 2:00 | 1 | 0 | 10 | 64 | 205 | 101 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 406 |
| 3:00 | 1 | 2 | 12 | 65 | 193 | 126 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 424 |
| 4:00 | 2 | 1 | 1 | 56 | 169 | 125 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 380 |
| 5:00 | 1 | 1 | 4 | 53 | 151 | 100 | 21 | 1 | 0 | 0 | 0 | 0 | 1 | 333 |
| 6:00 | 0 | 0 | 0 | 19 | 118 | 103 | 29 | 4 | 0 | 0 | 0 | 0 | 0 | 273 |
| 7:00 | 0 | 0 | 0 | 13 | 44 | 61 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 140 |
| 8:00 | 0 | 0 | 0 | 8 | 27 | 55 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 117 |
| 9:00 | 0 | 0 | 0 | 3 | 28 | 44 | 20 | 3 | 1 | 0 | 0 | 0 | 0 | 99 |
| 10:00 | 0 | 0 | 0 | 4 | 19 | 39 | 17 | 5 | 1 | 0 | 0 | 0 | 0 | 85 |
| 11:00 | 0 | 0 | 0 | 0 | 14 | 11 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | 26 | 9 | 87 | 821 | 2357 | 1693 | 362 | 38 | 3 | 0 | 0 | 0 | 1 | 5397 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 7 | 17 | 29 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 59 |
| 6:00 | 0 | 0 | 1 | 28 | 58 | 50 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 150 |
| 7:00 | 0 | 1 | 2 | 45 | 125 | 90 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 280 |
| 8:00 | 5 | 2 | 9 | 65 | 117 | 115 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 328 |
| 9:00 | 3 | 9 | 19 | 38 | 172 | 104 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 366 |
| 10:00 | 0 | 0 | 5 | 56 | 170 | 131 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 380 |
| 11:00 | 2 | 0 | 7 | 71 | 149 | 98 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 349 |
| 12:00 PM | 0 | 2 | 10 | 81 | 162 | 143 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 425 |
| 1:00 | 1 | 1 | 2 | 52 | 162 | 136 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 382 |
| 2:00 | 1 | 0 | 3 | 57 | 185 | 125 | 32 | 1 | 2 | 0 | 0 | 0 | 0 | 406 |
| 3:00 | 3 | 1 | 3 | 57 | 166 | 144 | 30 | 6 | 0 | 0 | 0 | 0 | 0 | 410 |
| 4:00 | 0 | 1 | 0 | 41 | 147 | 128 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 344 |
| 5:00 | 0 | 2 | 7 | 60 | 120 | 70 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 279 |
| 6:00 | 0 | 0 | 1 | 19 | 81 | 101 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 235 |
| 7:00 | 0 | 0 | 1 | 5 | 58 | 57 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 138 |
| 8:00 | 0 | 0 | 0 | 7 | 35 | 24 | 23 | 1 | 1 | 0 | 0 | 0 | 0 | 91 |
| 9:00 | 0 | 0 | 1 | 5 | 30 | 61 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 117 |
| 10:00 | 0 | 0 | 1 | 8 | 17 | 39 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 86 |
| 11:00 | 0 | 0 | 0 | 0 | 12 | 15 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 36 |
| Total | 15 | 19 | 72 | 705 | 1987 | 1678 | 374 | 41 | 4 | 1 | 0 | 0 | 0 | 4896 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 0 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 2 | 5 | 4 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 16 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 2 | 16 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 6:00 | 0 | 0 | 0 | 10 | 42 | 27 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 88 |
| 7:00 | 0 | 0 | 0 | 14 | 42 | 48 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |
| 8:00 | 0 | 0 | 0 | 7 | 38 | 52 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 110 |
| 9:00 | 1 | 3 | 2 | 29 | 69 | 54 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 165 |
| 10:00 | 1 | 1 | 3 | 38 | 93 | 62 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 218 |
| 11:00 | 3 | 2 | 12 | 45 | 113 | 66 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 260 |
| 12:00 PM | 0 | 0 | 5 | 42 | 123 | 77 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 259 |
| 1:00 | 1 | 2 | 1 | 41 | 123 | 71 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 249 |
| 2:00 | 3 | 1 | 9 | 87 | 146 | 62 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 318 |
| 3:00 | 0 | 0 | 2 | 72 | 109 | 56 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 248 |
| 4:00 | 0 | 0 | 8 | 68 | 108 | 41 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 242 |
| 5:00 | 2 | 0 | 7 | 29 | 74 | 57 | 9 | 3 | 0 | 0 | 0 | 1 | 0 | 182 |
| 6:00 | 0 | 0 | 2 | 8 | 52 | 66 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 148 |
| 7:00 | 0 | 1 | 5 | 10 | 33 | 22 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| 8:00 | 0 | 0 | 1 | 10 | 27 | 35 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 79 |
| 9:00 | 0 | 0 | 0 | 5 | 25 | 29 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| 10:00 | 0 | 0 | 0 | 5 | 16 | 16 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 2 | 8 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | 11 | 10 | 58 | 527 | 1275 | 884 | 207 | 19 | 5 | 0 | 0 | 1 | 0 | 2997 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 5 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 5 | 9 | 21 | 15 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 53 |
| 6:00 | 2 | 1 | 5 | 38 | 40 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| 7:00 | 1 | 1 | 20 | 41 | 70 | 30 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| 8:00 | 1 | 3 | 8 | 69 | 116 | 43 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 247 |
| 9:00 | 0 | 0 | 18 | 75 | 149 | 55 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 311 |
| 10:00 | 6 | 16 | 57 | 130 | 89 | 40 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 340 |
| 11:00 | 5 | 8 | 69 | 146 | 132 | 23 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 388 |
| 12:00 PM | 2 | 5 | 47 | 135 | 174 | 47 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 418 |
| 1:00 | 3 | 4 | 42 | 131 | 161 | 77 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 425 |
| 2:00 | 2 | 3 | 15 | 113 | 224 | 52 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 413 |
| 3:00 | 3 | 8 | 54 | 153 | 152 | 60 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 437 |
| 4:00 | 7 | 9 | 50 | 164 | 184 | 48 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 467 |
| 5:00 | 1 | 3 | 30 | 131 | 158 | 62 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 392 |
| 6:00 | 2 | 1 | 5 | 55 | 107 | 83 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 273 |
| 7:00 | 0 | 0 | 5 | 47 | 155 | 90 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 310 |
| 8:00 | 0 | 0 | 5 | 32 | 63 | 58 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 169 |
| 9:00 | 0 | 0 | 1 | 24 | 87 | 39 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| 10:00 | 0 | 0 | 1 | 11 | 33 | 40 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 100 |
| 11:00 | 0 | 0 | 1 | 2 | 15 | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Total | 35 | 62 | 439 | 1513 | 2133 | 908 | 133 | 18 | 0 | 0 | 0 | 0 | 0 | 5241 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 4 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 1 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 1 | 0 | 2 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 0 | 0 | 1 | 6 | 17 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 6:00 | 0 | 0 | 2 | 6 | 29 | 28 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 68 |
| 7:00 | 0 | 0 | 3 | 8 | 59 | 61 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 141 |
| 8:00 | 2 | 0 | 4 | 36 | 95 | 62 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 206 |
| 9:00 | 1 | 0 | 11 | 67 | 132 | 70 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 299 |
| 10:00 | 4 | 10 | 46 | 129 | 114 | 34 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 340 |
| 11:00 | 3 | 4 | 28 | 100 | 116 | 37 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 297 |
| 12:00 PM | 1 | 8 | 12 | 91 | 146 | 63 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 331 |
| 1:00 | 0 | 2 | 9 | 86 | 182 | 89 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 385 |
| 2:00 | 5 | 8 | 40 | 138 | 119 | 35 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 353 |
| 3:00 | 15 | 13 | 54 | 93 | 110 | 43 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 338 |
| 4:00 | 26 | 9 | 14 | 47 | 148 | 81 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 338 |
| 5:00 | 0 | 0 | 6 | 58 | 140 | 71 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 292 |
| 6:00 | 0 | 0 | 3 | 25 | 105 | 68 | 18 | 2 | 1 | 0 | 0 | 0 | 0 | 222 |
| 7:00 | 0 | 0 | 7 | 13 | 57 | 45 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 129 |
| 8:00 | 0 | 1 | 0 | 18 | 50 | 27 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 105 |
| 9:00 | 0 | 0 | 1 | 4 | 58 | 43 | 11 | 2 | 0 | 1 | 0 | 0 | 0 | 120 |
| 10:00 | 0 | 0 | 0 | 6 | 30 | 30 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 11:00 | 0 | 0 | 1 | 5 | 10 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Total | 57 | 55 | 243 | 938 | 1730 | 937 | 183 | 15 | 2 | 1 | 0 | 0 | 0 | 4161 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 1 | 2 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 2 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 2 | 2 | 18 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 0 | 4 | 21 | 19 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 51 |
| 7:00 | 1 | 0 | 3 | 3 | 35 | 63 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 123 |
| 8:00 | 1 | 0 | 3 | 18 | 62 | 67 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 165 |
| 9:00 | 0 | 2 | 5 | 36 | 86 | 51 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 194 |
| 10:00 | 0 | 1 | 8 | 47 | 143 | 77 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 286 |
| 11:00 | 0 | 0 | 7 | 60 | 126 | 59 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 274 |
| 12:00 PM | 0 | 2 | 10 | 56 | 155 | 86 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 320 |
| 1:00 | 0 | 1 | 11 | 55 | 131 | 62 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 279 |
| 2:00 | 2 | 5 | 17 | 67 | 132 | 74 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 309 |
| 3:00 | 0 | 0 | 9 | 48 | 112 | 74 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 261 |
| 4:00 | 0 | 3 | 5 | 29 | 120 | 73 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 254 |
| 5:00 | 0 | 0 | 6 | 43 | 141 | 70 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 273 |
| 6:00 | 0 | 0 | 3 | 24 | 65 | 36 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 136 |
| 7:00 | 0 | 0 | 1 | 5 | 40 | 30 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
| 8:00 | 0 | 0 | 1 | 6 | 23 | 33 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 73 |
| 9:00 | 0 | 0 | 0 | 7 | 15 | 19 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 10:00 | 0 | 0 | 0 | 2 | 10 | 18 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11:00 | 0 | 0 | 0 | 1 | 7 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 4 | 15 | 94 | 522 | 1452 | 950 | 209 | 24 | 0 | 0 | 0 | 0 | 0 | 3270 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 1 | 2 | 8 | 21 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 3 | 18 | 65 | 55 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 149 |
| 7:00 | 0 | 0 | 1 | 21 | 126 | 91 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 258 |
| 8:00 | 0 | 1 | 2 | 59 | 149 | 70 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 298 |
| 9:00 | 0 | 0 | 11 | 46 | 151 | 81 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 304 |
| 10:00 | 0 | 3 | 5 | 62 | 147 | 89 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 323 |
| 11:00 | 2 | 1 | 18 | 61 | 156 | 78 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 324 |
| 12:00 PM | 0 | 0 | 8 | 62 | 131 | 85 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 304 |
| 1:00 | 4 | 2 | 5 | 92 | 150 | 80 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 348 |
| 2:00 | 1 | 0 | 6 | 80 | 153 | 98 | 21 | 1 | 1 | 0 | 0 | 0 | 0 | 361 |
| 3:00 | 1 | 1 | 7 | 59 | 152 | 110 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 353 |
| 4:00 | 1 | 0 | 6 | 37 | 115 | 122 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 302 |
| 5:00 | 0 | 0 | 6 | 40 | 80 | 69 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 214 |
| 6:00 | 0 | 0 | 0 | 9 | 57 | 75 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 155 |
| 7:00 | 0 | 0 | 0 | 7 | 28 | 32 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 83 |
| 8:00 | 0 | 0 | 0 | 5 | 10 | 40 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 66 |
| 9:00 | 0 | 0 | 0 | 0 | 23 | 27 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 64 |
| 10:00 | 0 | 0 | 0 | 1 | 12 | 9 | 8 | 2 | 0 | 1 | 0 | 0 | 0 | 33 |
| 11:00 | 0 | 0 | 0 | 1 | 3 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 9 | 9 | 80 | 671 | 1735 | 1244 | 251 | 23 | 1 | 2 | 0 | 0 | 0 | 4025 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 1 | 9 | 23 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 6:00 | 0 | 0 | 0 | 36 | 83 | 47 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 7:00 | 1 | 0 | 4 | 36 | 116 | 84 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 253 |
| 8:00 | 1 | 0 | 9 | 51 | 157 | 82 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 314 |
| 9:00 | 1 | 0 | 5 | 58 | 133 | 92 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 303 |
| 10:00 | 0 | 0 | 9 | 75 | 165 | 90 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 351 |
| 11:00 | 2 | 1 | 5 | 49 | 162 | 118 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 358 |
| 12:00 PM | 1 | 1 | 1 | 51 | 172 | 108 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 355 |
| 1:00 | 1 | 0 | 9 | 61 | 169 | 96 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 352 |
| 2:00 | 0 | 1 | 1 | 22 | 181 | 144 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 381 |
| 3:00 | 1 | 0 | 2 | 41 | 151 | 143 | 22 | 2 | 1 | 0 | 0 | 0 | 0 | 363 |
| 4:00 | 0 | 0 | 0 | 19 | 97 | 139 | 43 | 4 | 1 | 0 | 1 | 0 | 0 | 304 |
| 5:00 | 0 | 0 | 1 | 35 | 96 | 77 | 26 | 0 | 0 | 1 | 0 | 0 | 0 | 236 |
| 6:00 | 0 | 0 | 0 | 13 | 51 | 72 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 152 |
| 7:00 | 0 | 0 | 1 | 6 | 26 | 31 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 78 |
| 8:00 | 0 | 0 | 0 | 8 | 20 | 35 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 78 |
| 9:00 | 0 | 0 | 0 | 7 | 32 | 27 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 80 |
| 10:00 | 0 | 0 | 0 | 0 | 13 | 12 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 35 |
| 11:00 | 0 | 0 | 0 | 0 | 4 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 8 | 3 | 48 | 579 | 1856 | 1433 | 298 | 32 | 4 | 1 | 1 | 0 | 0 | 4263 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 1 | 3 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 2 | 4 | 13 | 27 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 5 | 27 | 64 | 52 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 7:00 | 14 | 3 | 2 | 18 | 125 | 90 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 269 |
| 8:00 | 1 | 2 | 4 | 25 | 117 | 89 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 264 |
| 9:00 | 0 | 1 | 9 | 53 | 141 | 99 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 324 |
| 10:00 | 1 | 0 | 5 | 46 | 149 | 105 | 24 | 2 | 1 | 0 | 0 | 0 | 0 | 333 |
| 11:00 | 4 | 2 | 13 | 57 | 147 | 104 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 348 |
| 12:00 PM | 6 | 3 | 11 | 30 | 137 | 131 | 20 | 4 | 0 | 0 | 0 | 0 | 0 | 342 |
| 1:00 | 1 | 0 | 0 | 48 | 152 | 124 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 352 |
| 2:00 | 3 | 0 | 3 | 50 | 149 | 129 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 359 |
| 3:00 | 2 | 0 | 1 | 33 | 156 | 138 | 26 | 2 | 1 | 0 | 0 | 0 | 0 | 359 |
| 4:00 | 3 | 0 | 11 | 37 | 117 | 104 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 305 |
| 5:00 | 0 | 0 | 1 | 43 | 106 | 92 | 25 | 4 | 1 | 0 | 0 | 0 | 0 | 272 |
| 6:00 | 0 | 0 | 1 | 19 | 68 | 70 | 22 | 3 | 1 | 0 | 0 | 0 | 0 | 184 |
| 7:00 | 0 | 0 | 0 | 11 | 71 | 46 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 146 |
| 8:00 | 0 | 0 | 0 | 4 | 34 | 34 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 85 |
| 9:00 | 0 | 0 | 1 | 4 | 23 | 42 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 87 |
| 10:00 | 0 | 0 | 1 | 1 | 8 | 25 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 54 |
| 11:00 | 0 | 0 | 0 | 2 | 3 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Total | 35 | 11 | 71 | 515 | 1791 | 1517 | 346 | 42 | 5 | 0 | 0 | 0 | 0 | 4333 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 2 | 4 | 17 | 15 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 1 | 0 | 5 | 29 | 75 | 57 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| 7:00 | 0 | 0 | 3 | 24 | 118 | 82 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| 8:00 | 0 | 0 | 5 | 29 | 123 | 110 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 297 |
| 9:00 | 2 | 0 | 8 | 41 | 137 | 105 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 318 |
| 10:00 | 0 | 0 | 2 | 35 | 137 | 103 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 299 |
| 11:00 | 1 | 0 | 1 | 43 | 178 | 100 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 339 |
| 12:00 PM | 0 | 0 | 5 | 61 | 156 | 99 | 20 | 3 | 0 | 0 | 0 | 0 | 1 | 345 |
| 1:00 | 1 | 17 | 9 | 32 | 151 | 121 | 11 | 3 | 0 | 1 | 0 | 0 | 0 | 346 |
| 2:00 | 0 | 1 | 3 | 53 | 183 | 142 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 400 |
| 3:00 | 0 | 0 | 1 | 53 | 143 | 130 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 358 |
| 4:00 | 1 | 0 | 2 | 23 | 122 | 107 | 29 | 4 | 0 | 0 | 0 | 0 | 0 | 288 |
| 5:00 | 2 | 5 | 9 | 45 | 123 | 72 | 18 | 1 | 1 | 0 | 0 | 0 | 0 | 276 |
| 6:00 | 0 | 0 | 0 | 17 | 81 | 55 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 169 |
| 7:00 | 0 | 0 | 0 | 5 | 56 | 40 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 119 |
| 8:00 | 0 | 0 | 0 | 4 | 31 | 44 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| 9:00 | 0 | 0 | 0 | 2 | 24 | 41 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 81 |
| 10:00 | 0 | 0 | 0 | 6 | 14 | 13 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 46 |
| 11:00 | 0 | 0 | 0 | 1 | 8 | 13 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | 8 | 23 | 55 | 508 | 1884 | 1461 | 304 | 38 | 2 | 1 | 0 | 0 | 1 | 4285 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 9 | 17 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 6:00 | 9 | 2 | 1 | 27 | 62 | 46 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 154 |
| 7:00 | 0 | 0 | 0 | 24 | 110 | 94 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 245 |
| 8:00 | 0 | 2 | 11 | 50 | 146 | 118 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 354 |
| 9:00 | 0 | 2 | 6 | 43 | 179 | 126 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 377 |
| 10:00 | 3 | 0 | 9 | 69 | 151 | 101 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 355 |
| 11:00 | 0 | 0 | 15 | 55 | 159 | 144 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 393 |
| 12:00 PM | 1 | 0 | 7 | 52 | 142 | 109 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 337 |
| 1:00 | 0 | 0 | 7 | 61 | 152 | 117 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 355 |
| 2:00 | 1 | 0 | 4 | 58 | 184 | 123 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 399 |
| 3:00 | 3 | 0 | 18 | 43 | 152 | 144 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 389 |
| 4:00 | 1 | 1 | 2 | 23 | 107 | 127 | 37 | 3 | 1 | 0 | 0 | 0 | 0 | 302 |
| 5:00 | 0 | 0 | 0 | 24 | 82 | 90 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 224 |
| 6:00 | 0 | 0 | 1 | 8 | 77 | 62 | 18 | 2 | 0 | 2 | 0 | 0 | 0 | 170 |
| 7:00 | 0 | 0 | 0 | 10 | 47 | 60 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 126 |
| 8:00 | 0 | 0 | 6 | 10 | 57 | 51 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 131 |
| 9:00 | 0 | 0 | 2 | 13 | 38 | 46 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 113 |
| 10:00 | 0 | 0 | 1 | 9 | 21 | 39 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 11:00 | 0 | 0 | 0 | 1 | 7 | 14 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total | 18 | 7 | 90 | 593 | 1900 | 1641 | 322 | 31 | 2 | 2 | 0 | 0 | 0 | 4606 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 13 | 16 | 16 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 2 | 13 | 36 | 31 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 91 |
| 7:00 | 0 | 0 | 0 | 14 | 58 | 52 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
| 8:00 | 0 | 0 | 1 | 16 | 80 | 89 | 19 | 1 | 1 | 0 | 0 | 0 | 0 | 207 |
| 9:00 | 0 | 0 | 5 | 34 | 101 | 75 | 22 | 0 | 1 | 0 | 0 | 0 | 0 | 238 |
| 10:00 | 1 | 0 | 6 | 48 | 119 | 78 | 19 | 2 | 0 | 0 | 0 | 0 | 1 | 274 |
| 11:00 | 0 | 2 | 8 | 62 | 133 | 83 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 302 |
| 12:00 PM | 0 | 0 | 4 | 75 | 127 | 90 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 317 |
| 1:00 | 0 | 0 | 9 | 47 | 157 | 89 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 322 |
| 2:00 | 0 | 2 | 8 | 36 | 172 | 98 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 339 |
| 3:00 | 0 | 1 | 5 | 62 | 173 | 109 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 371 |
| 4:00 | 0 | 0 | 5 | 56 | 168 | 106 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 355 |
| 5:00 | 0 | 0 | 3 | 52 | 158 | 85 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 310 |
| 6:00 | 0 | 1 | 4 | 50 | 127 | 86 | 30 | 4 | 0 | 0 | 0 | 0 | 0 | 302 |
| 7:00 | 0 | 0 | 7 | 36 | 99 | 72 | 19 | 7 | 0 | 0 | 0 | 0 | 0 | 240 |
| 8:00 | 0 | 0 | 0 | 25 | 92 | 74 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 204 |
| 9:00 | 0 | 0 | 0 | 25 | 79 | 65 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 179 |
| 10:00 | 0 | 1 | 0 | 4 | 31 | 24 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 11:00 | 0 | 0 | 0 | 0 | 17 | 14 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 42 |
| Total | 1 | 7 | 67 | 670 | 1954 | 1351 | 318 | 30 | 4 | 0 | 0 | 0 | 1 | 4403 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 7 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 5 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 3:00 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 4 | 11 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 6:00 | 0 | 0 | 0 | 3 | 21 | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 53 |
| 7:00 | 0 | 0 | 2 | 10 | 40 | 55 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 0 | 2 | 10 | 65 | 41 | 17 | 1 | 1 | 0 | 0 | 0 | 0 | 137 |
| 9:00 | 0 | 0 | 3 | 26 | 71 | 66 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 186 |
| 10:00 | 1 | 0 | 3 | 26 | 116 | 81 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 243 |
| 11:00 | 2 | 2 | 11 | 56 | 97 | 66 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 247 |
| 12:00 PM | 1 | 4 | 10 | 61 | 120 | 70 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 278 |
| 1:00 | 2 | 1 | 5 | 41 | 153 | 78 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 291 |
| 2:00 | 1 | 0 | 2 | 32 | 111 | 75 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 239 |
| 3:00 | 0 | 1 | 4 | 45 | 92 | 79 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 239 |
| 4:00 | 0 | 0 | 4 | 46 | 96 | 63 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 230 |
| 5:00 | 0 | 0 | 2 | 28 | 88 | 67 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 195 |
| 6:00 | 1 | 0 | 0 | 7 | 66 | 60 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 154 |
| 7:00 | 0 | 0 | 0 | 6 | 27 | 32 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 77 |
| 8:00 | 0 | 0 | 0 | 15 | 26 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 3 | 19 | 31 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 66 |
| 10:00 | 0 | 0 | 0 | 0 | 13 | 18 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 45 |
| 11:00 | 0 | 0 | 1 | 2 | 4 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 8 | 9 | 49 | 424 | 1252 | 962 | 230 | 28 | 4 | 1 | 0 | 0 | 0 | 2967 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 2 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 10 | 18 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 6:00 | 0 | 0 | 1 | 26 | 58 | 44 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 135 |
| 7:00 | 1 | 0 | 16 | 59 | 103 | 49 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 237 |
| 8:00 | 0 | 0 | 11 | 56 | 123 | 67 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 273 |
| 9:00 | 0 | 0 | 1 | 50 | 176 | 77 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 315 |
| 10:00 | 0 | 0 | 1 | 46 | 156 | 79 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 304 |
| 11:00 | 3 | 0 | 3 | 56 | 146 | 100 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 328 |
| 12:00 PM | 0 | 0 | 7 | 53 | 151 | 101 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 331 |
| 1:00 | 0 | 6 | 14 | 84 | 159 | 78 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 354 |
| 2:00 | 0 | 2 | 8 | 68 | 198 | 95 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 392 |
| 3:00 | 1 | 2 | 10 | 54 | 190 | 91 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 364 |
| 4:00 | 3 | 0 | 8 | 31 | 107 | 87 | 38 | 2 | 0 | 0 | 0 | 0 | 0 | 276 |
| 5:00 | 0 | 0 | 2 | 24 | 99 | 75 | 13 | 7 | 1 | 0 | 0 | 0 | 0 | 221 |
| 6:00 | 0 | 0 | 1 | 8 | 62 | 69 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 154 |
| 7:00 | 0 | 0 | 0 | 3 | 22 | 43 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 9 | 19 | 26 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 63 |
| 9:00 | 0 | 0 | 0 | 3 | 16 | 26 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 60 |
| 10:00 | 0 | 0 | 1 | 4 | 13 | 15 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 46 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 18 |
| Total | 8 | 10 | 84 | 647 | 1827 | 1155 | 253 | 38 | 2 | 0 | 0 | 0 | 0 | 4024 |

City of Sanibel
Location: Sanibel Captiva Road
East of Pine Avenue

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 4 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 1 | 5 | 12 | 19 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 6:00 | 0 | 0 | 4 | 21 | 70 | 62 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 161 |
| 7:00 | 0 | 0 | 13 | 44 | 117 | 62 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 248 |
| 8:00 | 0 | 0 | 8 | 46 | 167 | 80 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 314 |
| 9:00 | 2 | 3 | 5 | 64 | 176 | 89 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 363 |
| 10:00 | 0 | 0 | 4 | 72 | 167 | 106 | 23 | 0 | 1 | 1 | 0 | 0 | 0 | 374 |
| 11:00 | 1 | 2 | 9 | 92 | 189 | 72 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 380 |
| 12:00 PM | 0 | 3 | 16 | 95 | 181 | 79 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 383 |
| 1:00 | 1 | 0 | 13 | 83 | 199 | 90 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 398 |
| 2:00 | 0 | 2 | 29 | 103 | 176 | 75 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 403 |
| 3:00 | 0 | 2 | 5 | 58 | 170 | 113 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 368 |
| 4:00 | 0 | 0 | 5 | 46 | 121 | 94 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 285 |
| 5:00 | 1 | 0 | 3 | 33 | 129 | 65 | 14 | 0 | 0 | 1 | 0 | 0 | 0 | 246 |
| 6:00 | 0 | 0 | 1 | 8 | 48 | 81 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 157 |
| 7:00 | 0 | 0 | 0 | 7 | 23 | 40 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 88 |
| 8:00 | 0 | 0 | 1 | 1 | 21 | 34 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 0 | 2 | 8 | 14 | 27 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 62 |
| 10:00 | 0 | 0 | 1 | 3 | 10 | 20 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 5 | 12 | 120 | 790 | 2002 | 1221 | 238 | 27 | 3 | 3 | 0 | 0 | 0 | 4421 |
| Grand Total | 359 | 399 | 2333 | 14201 | 37908 | 27501 | 5842 | 658 | 64 | 13 | 2 | 1 | 5 | 89286 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 28 | 33 | 37 | 40 |
| | Mean Speed (Average) | 34.1 | | | |
| | 10 MPH Pace Speed | 31-40 | | | |
| | Number in Pace | 65400 | | | |
| | Percent in Pace | 73.0% | | | |
| | Number > 35 MPH | 34086 | | | |
| | Percent > 35 MPH | 38.2% | | | |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 13 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 43 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 23 | 40 | 13 | 3 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 53 | 65 | 22 | 1 | 0 | 0 | 0 | 0 | 146 |
| 9:00 | 0 | 0 | 0 | 0 | 18 | 66 | 75 | 10 | 0 | 0 | 0 | 0 | 0 | 169 |
| 10:00 | 0 | 0 | 0 | 0 | 21 | 90 | 99 | 13 | 1 | 1 | 0 | 0 | 0 | 225 |
| 11:00 | 1 | 0 | 0 | 0 | 22 | 124 | 100 | 18 | 2 | 0 | 0 | 0 | 0 | 267 |
| 12:00 PM | 4 | 2 | 6 | 12 | 25 | 105 | 114 | 26 | 1 | 0 | 0 | 0 | 0 | 295 |
| 1:00 | 1 | 0 | 0 | 3 | 40 | 148 | 115 | 17 | 3 | 0 | 0 | 0 | 0 | 327 |
| 2:00 | 0 | 0 | 1 | 12 | 41 | 128 | 117 | 29 | 2 | 0 | 0 | 0 | 0 | 330 |
| 3:00 | 0 | 0 | 0 | 2 | 21 | 161 | 130 | 28 | 2 | 0 | 0 | 0 | 0 | 344 |
| 4:00 | 1 | 0 | 0 | 0 | 13 | 155 | 119 | 19 | 1 | 1 | 1 | 0 | 0 | 310 |
| 5:00 | 1 | 0 | 0 | 1 | 11 | 132 | 107 | 18 | 0 | 0 | 0 | 0 | 0 | 270 |
| 6:00 | 0 | 0 | 0 | 3 | 9 | 57 | 66 | 24 | 4 | 0 | 0 | 0 | 0 | 163 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 15 | 43 | 6 | 0 | 0 | 0 | 0 | 0 | 69 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 10 | 22 | 14 | 3 | 0 | 0 | 0 | 0 | 51 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 28 | 51 | 9 | 1 | 0 | 0 | 0 | 0 | 92 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 16 | 28 | 8 | 1 | 1 | 0 | 0 | 0 | 58 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 6 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 18 |
| Total | 8 | 2 | 7 | 33 | 244 | 1339 | 1331 | 286 | 27 | 4 | 1 | 0 | 0 | 3282 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 16 | 18 | 2 | 1 | 0 | 0 | 0 | 0 | 37 |
| 7:00 | 1 | 0 | 0 | 0 | 2 | 25 | 30 | 22 | 1 | 2 | 0 | 0 | 0 | 83 |
| 8:00 | 1 | 0 | 0 | 1 | 2 | 47 | 72 | 26 | 2 | 0 | 0 | 0 | 0 | 151 |
| 9:00 | 1 | 0 | 0 | 0 | 6 | 81 | 74 | 24 | 1 | 1 | 0 | 0 | 0 | 188 |
| 10:00 | 0 | 0 | 0 | 0 | 15 | 126 | 97 | 18 | 4 | 1 | 0 | 0 | 0 | 261 |
| 11:00 | 0 | 3 | 2 | 3 | 29 | 117 | 105 | 34 | 4 | 0 | 0 | 0 | 0 | 297 |
| 12:00 PM | 0 | 0 | 0 | 0 | 18 | 108 | 119 | 21 | 4 | 1 | 0 | 0 | 1 | 272 |
| 1:00 | 1 | 0 | 0 | 8 | 11 | 122 | 91 | 23 | 2 | 1 | 0 | 0 | 0 | 259 |
| 2:00 | 3 | 0 | 0 | 1 | 39 | 146 | 114 | 34 | 0 | 0 | 1 | 0 | 0 | 338 |
| 3:00 | 2 | 0 | 0 | 0 | 29 | 181 | 118 | 19 | 1 | 0 | 0 | 0 | 0 | 350 |
| 4:00 | 0 | 0 | 0 | 1 | 15 | 139 | 126 | 22 | 0 | 0 | 0 | 0 | 0 | 303 |
| 5:00 | 0 | 0 | 0 | 3 | 10 | 106 | 118 | 16 | 2 | 0 | 0 | 0 | 0 | 255 |
| 6:00 | 0 | 0 | 0 | 4 | 7 | 95 | 74 | 14 | 5 | 0 | 0 | 0 | 0 | 199 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 19 | 48 | 12 | 0 | 1 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 21 | 16 | 7 | 3 | 1 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 26 | 40 | 14 | 1 | 0 | 0 | 0 | 0 | 81 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 13 | 17 | 7 | 0 | 0 | 0 | 0 | 0 | 38 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 2 | 0 | 0 | 1 | 1 | 0 | 15 |
| Total | 9 | 3 | 2 | 21 | 188 | 1402 | 1294 | 321 | 35 | 8 | 2 | 1 | 1 | 3287 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 6 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 18 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 44 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 22 | 38 | 15 | 2 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 28 | 43 | 16 | 4 | 0 | 0 | 0 | 0 | 94 |
| 9:00 | 0 | 0 | 0 | 1 | 12 | 73 | 85 | 12 | 1 | 0 | 0 | 0 | 0 | 184 |
| 10:00 | 0 | 0 | 0 | 1 | 6 | 61 | 96 | 33 | 4 | 0 | 0 | 0 | 0 | 201 |
| 11:00 | 2 | 0 | 0 | 0 | 8 | 108 | 123 | 25 | 5 | 1 | 0 | 0 | 0 | 272 |
| 12:00 PM | 0 | 0 | 3 | 4 | 13 | 104 | 146 | 25 | 3 | 0 | 0 | 0 | 0 | 298 |
| 1:00 | 1 | 0 | 0 | 1 | 7 | 99 | 138 | 26 | 3 | 0 | 0 | 0 | 0 | 275 |
| 2:00 | 3 | 0 | 0 | 0 | 9 | 113 | 150 | 33 | 2 | 2 | 0 | 0 | 0 | 312 |
| 3:00 | 0 | 0 | 1 | 10 | 41 | 151 | 127 | 18 | 6 | 1 | 1 | 0 | 0 | 356 |
| 4:00 | 0 | 0 | 0 | 0 | 6 | 94 | 99 | 27 | 2 | 2 | 0 | 0 | 0 | 230 |
| 5:00 | 0 | 0 | 0 | 1 | 27 | 117 | 101 | 11 | 2 | 0 | 0 | 0 | 0 | 259 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 72 | 82 | 25 | 0 | 2 | 0 | 0 | 0 | 185 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 24 | 41 | 13 | 0 | 0 | 0 | 0 | 0 | 81 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 10 | 24 | 10 | 4 | 0 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 39 | 36 | 10 | 0 | 0 | 0 | 0 | 0 | 90 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 21 | 22 | 6 | 2 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 9 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 6 | 0 | 4 | 19 | 154 | 1171 | 1388 | 318 | 42 | 9 | 1 | 0 | 0 | 3112 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 1 | 0 | 0 | 1 | 7 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 31 |
| 7:00 | 1 | 0 | 0 | 1 | 3 | 22 | 40 | 6 | 2 | 0 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 40 | 60 | 12 | 4 | 0 | 0 | 0 | 0 | 118 |
| 9:00 | 0 | 0 | 0 | 1 | 6 | 65 | 74 | 19 | 2 | 0 | 0 | 0 | 0 | 167 |
| 10:00 | 1 | 0 | 0 | 5 | 11 | 110 | 77 | 22 | 3 | 0 | 0 | 0 | 0 | 229 |
| 11:00 | 1 | 0 | 0 | 2 | 20 | 87 | 112 | 24 | 2 | 0 | 0 | 0 | 0 | 248 |
| 12:00 PM | 0 | 0 | 0 | 1 | 6 | 88 | 91 | 25 | 3 | 1 | 0 | 0 | 0 | 215 |
| 1:00 | 1 | 0 | 0 | 0 | 7 | 85 | 104 | 24 | 3 | 0 | 0 | 0 | 0 | 224 |
| 2:00 | 2 | 0 | 0 | 0 | 13 | 121 | 121 | 35 | 4 | 2 | 1 | 0 | 0 | 299 |
| 3:00 | 0 | 0 | 0 | 1 | 11 | 112 | 116 | 44 | 1 | 3 | 0 | 1 | 0 | 289 |
| 4:00 | 0 | 0 | 0 | 0 | 10 | 93 | 117 | 21 | 8 | 2 | 1 | 0 | 1 | 253 |
| 5:00 | 0 | 0 | 0 | 0 | 11 | 90 | 97 | 33 | 5 | 0 | 1 | 0 | 0 | 237 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 64 | 87 | 23 | 1 | 0 | 0 | 0 | 0 | 184 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 34 | 50 | 7 | 2 | 0 | 1 | 0 | 0 | 97 |
| 8:00 | 0 | 0 | 0 | 1 | 5 | 29 | 40 | 11 | 2 | 0 | 0 | 0 | 0 | 88 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 32 | 41 | 9 | 0 | 0 | 0 | 1 | 0 | 84 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 20 | 26 | 12 | 0 | 0 | 0 | 0 | 0 | 63 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total | 6 | 1 | 0 | 12 | 125 | 1120 | 1307 | 342 | 45 | 9 | 4 | 2 | 1 | 2974 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 10 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 18 | 24 | 4 | 0 | 1 | 0 | 0 | 0 | 47 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 35 | 55 | 26 | 2 | 0 | 0 | 0 | 0 | 124 |
| 9:00 | 1 | 0 | 0 | 0 | 5 | 68 | 98 | 30 | 1 | 0 | 0 | 0 | 0 | 203 |
| 10:00 | 5 | 0 | 0 | 0 | 10 | 75 | 84 | 20 | 6 | 0 | 0 | 0 | 0 | 200 |
| 11:00 | 0 | 0 | 0 | 0 | 7 | 88 | 81 | 27 | 2 | 0 | 0 | 0 | 0 | 205 |
| 12:00 PM | 1 | 0 | 0 | 1 | 10 | 104 | 88 | 19 | 1 | 0 | 0 | 0 | 0 | 224 |
| 1:00 | 0 | 0 | 0 | 2 | 10 | 75 | 101 | 31 | 5 | 0 | 0 | 0 | 0 | 224 |
| 2:00 | 0 | 0 | 1 | 1 | 6 | 83 | 110 | 38 | 1 | 1 | 0 | 0 | 0 | 241 |
| 3:00 | 0 | 0 | 0 | 0 | 12 | 94 | 113 | 35 | 3 | 3 | 1 | 0 | 0 | 261 |
| 4:00 | 0 | 0 | 0 | 0 | 9 | 89 | 110 | 27 | 4 | 1 | 0 | 1 | 0 | 241 |
| 5:00 | 0 | 0 | 0 | 3 | 22 | 102 | 80 | 22 | 1 | 1 | 0 | 0 | 0 | 231 |
| 6:00 | 0 | 0 | 0 | 1 | 8 | 61 | 87 | 9 | 1 | 0 | 0 | 0 | 0 | 167 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 25 | 45 | 14 | 0 | 2 | 0 | 0 | 0 | 86 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 16 | 27 | 13 | 1 | 0 | 0 | 0 | 0 | 57 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 25 | 39 | 10 | 0 | 0 | 0 | 0 | 0 | 76 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 28 | 23 | 5 | 1 | 0 | 0 | 0 | 0 | 62 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 7 | 0 | 1 | 8 | 118 | 1013 | 1190 | 345 | 34 | 9 | 1 | 1 | 0 | 2727 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 12 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 31 | 47 | 14 | 0 | 0 | 0 | 0 | 0 | 93 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 62 | 70 | 17 | 2 | 1 | 0 | 0 | 0 | 157 |
| 9:00 | 1 | 0 | 0 | 2 | 14 | 93 | 81 | 13 | 1 | 0 | 0 | 1 | 0 | 206 |
| 10:00 | 6 | 0 | 0 | 0 | 22 | 120 | 102 | 18 | 1 | 1 | 0 | 0 | 0 | 270 |
| 11:00 | 3 | 0 | 3 | 2 | 18 | 152 | 106 | 22 | 2 | 0 | 0 | 0 | 0 | 308 |
| 12:00 PM | 0 | 0 | 1 | 1 | 17 | 134 | 119 | 23 | 3 | 0 | 1 | 0 | 0 | 299 |
| 1:00 | 2 | 0 | 0 | 4 | 10 | 105 | 136 | 45 | 6 | 0 | 0 | 0 | 0 | 308 |
| 2:00 | 0 | 0 | 0 | 14 | 33 | 133 | 143 | 35 | 2 | 1 | 0 | 0 | 0 | 361 |
| 3:00 | 7 | 0 | 1 | 5 | 22 | 147 | 139 | 30 | 2 | 1 | 0 | 0 | 0 | 354 |
| 4:00 | 0 | 0 | 0 | 4 | 28 | 148 | 120 | 22 | 3 | 0 | 0 | 0 | 0 | 325 |
| 5:00 | 1 | 0 | 0 | 0 | 13 | 137 | 109 | 9 | 3 | 0 | 1 | 0 | 0 | 273 |
| 6:00 | 0 | 0 | 0 | 4 | 23 | 80 | 73 | 25 | 5 | 0 | 1 | 0 | 0 | 211 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 19 | 43 | 18 | 1 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 23 | 30 | 8 | 1 | 0 | 1 | 0 | 0 | 65 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 13 | 28 | 13 | 4 | 0 | 0 | 0 | 0 | 59 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 24 | 27 | 5 | 1 | 0 | 0 | 0 | 0 | 57 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 21 | 8 | 1 | 1 | 0 | 0 | 0 | 33 |
| Total | 20 | 0 | 5 | 36 | 213 | 1443 | 1416 | 335 | 39 | 6 | 4 | 1 | 0 | 3518 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 11 | 18 | 6 | 0 | 1 | 0 | 0 | 0 | 37 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 26 | 42 | 14 | 2 | 0 | 0 | 0 | 0 | 91 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 47 | 67 | 18 | 2 | 0 | 0 | 0 | 0 | 137 |
| 9:00 | 0 | 0 | 0 | 0 | 16 | 90 | 80 | 26 | 3 | 1 | 0 | 0 | 0 | 216 |
| 10:00 | 0 | 0 | 1 | 2 | 35 | 116 | 113 | 13 | 0 | 0 | 0 | 0 | 0 | 280 |
| 11:00 | 4 | 0 | 1 | 3 | 29 | 156 | 102 | 30 | 2 | 0 | 0 | 0 | 0 | 327 |
| 12:00 PM | 1 | 0 | 5 | 19 | 47 | 143 | 119 | 21 | 2 | 0 | 0 | 0 | 0 | 357 |
| 1:00 | 1 | 0 | 0 | 2 | 20 | 144 | 162 | 40 | 5 | 0 | 0 | 0 | 0 | 374 |
| 2:00 | 4 | 0 | 1 | 1 | 16 | 184 | 135 | 32 | 3 | 0 | 0 | 0 | 0 | 376 |
| 3:00 | 5 | 0 | 0 | 3 | 39 | 225 | 157 | 23 | 4 | 1 | 0 | 0 | 0 | 457 |
| 4:00 | 0 | 0 | 1 | 0 | 28 | 130 | 116 | 29 | 1 | 0 | 0 | 0 | 0 | 305 |
| 5:00 | 1 | 0 | 0 | 4 | 29 | 110 | 112 | 20 | 4 | 0 | 0 | 0 | 0 | 280 |
| 6:00 | 0 | 0 | 0 | 1 | 15 | 107 | 93 | 19 | 1 | 1 | 0 | 0 | 0 | 237 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 31 | 69 | 13 | 4 | 0 | 0 | 0 | 0 | 122 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 20 | 42 | 17 | 3 | 0 | 0 | 0 | 0 | 83 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 18 | 38 | 10 | 2 | 0 | 0 | 0 | 0 | 70 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 22 | 35 | 8 | 2 | 0 | 0 | 0 | 0 | 73 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 12 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 24 |
| Total | 16 | 0 | 9 | 35 | 303 | 1600 | 1517 | 346 | 43 | 4 | 0 | 0 | 0 | 3873 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 10 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 12 | 49 | 10 | 4 | 0 | 0 | 0 | 0 | 79 |
| 8:00 | 1 | 0 | 0 | 0 | 3 | 60 | 65 | 28 | 1 | 0 | 0 | 0 | 0 | 158 |
| 9:00 | 0 | 0 | 3 | 4 | 26 | 71 | 83 | 21 | 1 | 0 | 0 | 0 | 0 | 209 |
| 10:00 | 0 | 0 | 0 | 0 | 23 | 112 | 103 | 17 | 0 | 0 | 0 | 0 | 0 | 255 |
| 11:00 | 0 | 0 | 0 | 0 | 33 | 154 | 76 | 21 | 1 | 0 | 0 | 0 | 0 | 285 |
| 12:00 PM | 3 | 0 | 0 | 0 | 25 | 127 | 122 | 22 | 8 | 0 | 1 | 0 | 0 | 308 |
| 1:00 | 0 | 0 | 0 | 3 | 10 | 114 | 140 | 41 | 12 | 0 | 0 | 0 | 0 | 320 |
| 2:00 | 1 | 0 | 0 | 0 | 21 | 144 | 141 | 35 | 4 | 0 | 0 | 0 | 0 | 346 |
| 3:00 | 0 | 0 | 0 | 1 | 26 | 166 | 134 | 28 | 4 | 1 | 0 | 0 | 0 | 360 |
| 4:00 | 0 | 0 | 0 | 2 | 18 | 142 | 116 | 35 | 2 | 0 | 0 | 0 | 0 | 315 |
| 5:00 | 0 | 0 | 0 | 0 | 15 | 103 | 124 | 24 | 4 | 0 | 0 | 0 | 0 | 270 |
| 6:00 | 0 | 0 | 0 | 0 | 17 | 76 | 96 | 18 | 2 | 0 | 0 | 0 | 0 | 209 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 39 | 40 | 12 | 7 | 2 | 0 | 0 | 0 | 100 |
| 8:00 | 0 | 0 | 0 | 1 | 1 | 9 | 34 | 10 | 0 | 1 | 0 | 0 | 0 | 56 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 47 | 38 | 8 | 1 | 0 | 0 | 0 | 0 | 97 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 15 | 35 | 5 | 1 | 0 | 0 | 0 | 0 | 62 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 14 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 40 |
| Total | 5 | 0 | 3 | 11 | 238 | 1424 | 1436 | 348 | 58 | 5 | 1 | 0 | 0 | 3529 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 4 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 1 | 2 | 2 | 0 | 0 | 0 | 13 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 12 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 5 | 0 | 1 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 8 | 18 | 10 | 2 | 2 | 0 | 0 | 0 | 41 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 20 | 27 | 11 | 3 | 0 | 0 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 1 | 4 | 42 | 41 | 15 | 1 | 0 | 1 | 0 | 0 | 105 |
| 10:00 | 0 | 0 | 0 | 6 | 6 | 61 | 55 | 16 | 4 | 0 | 0 | 0 | 0 | 148 |
| 11:00 | 1 | 0 | 0 | 0 | 13 | 68 | 86 | 13 | 3 | 0 | 0 | 0 | 0 | 184 |
| 12:00 PM | 1 | 0 | 0 | 0 | 16 | 50 | 61 | 16 | 4 | 0 | 1 | 0 | 0 | 149 |
| 1:00 | 0 | 0 | 2 | 4 | 12 | 56 | 74 | 18 | 4 | 0 | 0 | 0 | 0 | 170 |
| 2:00 | 1 | 0 | 0 | 0 | 8 | 111 | 97 | 26 | 8 | 1 | 0 | 0 | 0 | 252 |
| 3:00 | 0 | 0 | 0 | 1 | 10 | 98 | 76 | 24 | 5 | 1 | 0 | 0 | 0 | 215 |
| 4:00 | 0 | 0 | 0 | 0 | 12 | 64 | 90 | 18 | 2 | 0 | 0 | 0 | 0 | 186 |
| 5:00 | 0 | 0 | 0 | 0 | 7 | 51 | 62 | 12 | 6 | 1 | 1 | 0 | 0 | 140 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 42 | 82 | 20 | 3 | 1 | 0 | 0 | 0 | 152 |
| 7:00 | 0 | 0 | 0 | 1 | 3 | 27 | 34 | 10 | 3 | 0 | 0 | 0 | 0 | 78 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 22 | 38 | 10 | 1 | 0 | 0 | 0 | 0 | 74 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 19 | 32 | 11 | 1 | 0 | 0 | 0 | 0 | 67 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 14 | 13 | 3 | 4 | 0 | 0 | 0 | 0 | 40 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 3 | 1 | 0 | 1 | 0 | 0 | 21 |
| Total | 3 | 0 | 2 | 13 | 116 | 774 | 922 | 249 | 62 | 11 | 4 | 0 | 0 | 2156 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 1 | 1 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 10 | 7 | 4 | 2 | 1 | 0 | 0 | 0 | 25 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 10 | 11 | 6 | 1 | 0 | 0 | 0 | 0 | 31 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 22 | 29 | 7 | 3 | 1 | 0 | 0 | 0 | 62 |
| 8:00 | 0 | 0 | 1 | 1 | 8 | 26 | 60 | 18 | 2 | 1 | 0 | 0 | 0 | 117 |
| 9:00 | 1 | 0 | 0 | 0 | 8 | 68 | 92 | 22 | 5 | 1 | 0 | 0 | 0 | 197 |
| 10:00 | 5 | 0 | 0 | 0 | 8 | 104 | 107 | 23 | 2 | 0 | 0 | 0 | 0 | 249 |
| 11:00 | 0 | 0 | 0 | 0 | 19 | 112 | 102 | 19 | 1 | 0 | 0 | 0 | 0 | 253 |
| 12:00 PM | 1 | 0 | 0 | 0 | 9 | 123 | 127 | 20 | 3 | 1 | 0 | 0 | 0 | 284 |
| 1:00 | 5 | 0 | 0 | 8 | 11 | 106 | 95 | 30 | 1 | 2 | 0 | 0 | 0 | 258 |
| 2:00 | 1 | 0 | 0 | 0 | 11 | 122 | 128 | 24 | 2 | 1 | 0 | 0 | 0 | 289 |
| 3:00 | 0 | 0 | 0 | 1 | 14 | 91 | 113 | 35 | 8 | 1 | 1 | 0 | 0 | 264 |
| 4:00 | 0 | 0 | 1 | 1 | 15 | 127 | 107 | 21 | 4 | 0 | 0 | 0 | 1 | 277 |
| 5:00 | 0 | 0 | 0 | 0 | 6 | 93 | 80 | 24 | 4 | 2 | 0 | 0 | 0 | 209 |
| 6:00 | 0 | 0 | 1 | 0 | 9 | 79 | 93 | 19 | 1 | 0 | 0 | 0 | 0 | 202 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 75 | 125 | 23 | 3 | 2 | 0 | 0 | 0 | 231 |
| 8:00 | 0 | 0 | 2 | 0 | 4 | 51 | 70 | 14 | 4 | 0 | 0 | 0 | 0 | 145 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 52 | 56 | 15 | 2 | 0 | 0 | 0 | 0 | 134 |
| 10:00 | 0 | 0 | 0 | 0 | 8 | 25 | 49 | 11 | 2 | 1 | 0 | 0 | 0 | 96 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 12 | 18 | 8 | 1 | 0 | 0 | 0 | 0 | 40 |
| Total | 13 | 0 | 5 | 13 | 147 | 1310 | 1478 | 345 | 52 | 15 | 1 | 0 | 1 | 3380 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 9 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 1 | 0 | 2 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 2 | 0 | 1 | 1 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 3 | 3 | 0 | 0 | 0 | 0 | 21 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 6 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 12 | 31 | 15 | 3 | 0 | 0 | 0 | 0 | 62 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 30 | 62 | 24 | 5 | 0 | 0 | 0 | 0 | 123 |
| 9:00 | 0 | 3 | 9 | 20 | 29 | 58 | 42 | 18 | 1 | 0 | 0 | 0 | 0 | 180 |
| 10:00 | 0 | 0 | 0 | 0 | 21 | 123 | 119 | 14 | 4 | 0 | 0 | 0 | 0 | 281 |
| 11:00 | 1 | 0 | 0 | 1 | 19 | 130 | 71 | 18 | 5 | 0 | 0 | 0 | 0 | 245 |
| 12:00 PM | 4 | 0 | 3 | 4 | 26 | 90 | 73 | 35 | 3 | 1 | 1 | 0 | 0 | 240 |
| 1:00 | 0 | 0 | 1 | 0 | 14 | 103 | 99 | 39 | 6 | 0 | 0 | 0 | 0 | 262 |
| 2:00 | 0 | 0 | 0 | 3 | 18 | 133 | 113 | 36 | 6 | 1 | 1 | 0 | 0 | 311 |
| 3:00 | 0 | 0 | 1 | 1 | 15 | 150 | 110 | 19 | 3 | 0 | 0 | 0 | 0 | 299 |
| 4:00 | 0 | 0 | 1 | 2 | 22 | 117 | 139 | 36 | 6 | 0 | 0 | 0 | 0 | 323 |
| 5:00 | 0 | 0 | 0 | 0 | 21 | 115 | 113 | 29 | 3 | 1 | 0 | 0 | 0 | 282 |
| 6:00 | 1 | 0 | 0 | 0 | 6 | 57 | 115 | 24 | 3 | 0 | 0 | 0 | 0 | 206 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 31 | 45 | 7 | 3 | 1 | 1 | 0 | 0 | 90 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 25 | 43 | 20 | 0 | 0 | 0 | 0 | 0 | 92 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 39 | 44 | 12 | 3 | 1 | 0 | 0 | 0 | 104 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 25 | 23 | 11 | 0 | 0 | 0 | 0 | 0 | 62 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 7 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 21 |
| Total | 6 | 3 | 15 | 32 | 214 | 1263 | 1291 | 376 | 61 | 8 | 4 | 1 | 0 | 3274 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 3 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 12 | 5 | 7 | 1 | 0 | 0 | 0 | 0 | 28 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 20 | 25 | 13 | 2 | 0 | 0 | 0 | 0 | 60 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 16 | 63 | 26 | 5 | 0 | 0 | 0 | 0 | 114 |
| 9:00 | 1 | 0 | 0 | 0 | 10 | 54 | 83 | 24 | 5 | 1 | 1 | 0 | 0 | 179 |
| 10:00 | 1 | 0 | 0 | 0 | 9 | 73 | 65 | 17 | 4 | 1 | 0 | 0 | 0 | 170 |
| 11:00 | 1 | 1 | 2 | 1 | 16 | 63 | 95 | 17 | 1 | 2 | 0 | 0 | 0 | 199 |
| 12:00 PM | 1 | 0 | 0 | 1 | 15 | 87 | 105 | 18 | 3 | 0 | 0 | 0 | 0 | 230 |
| 1:00 | 1 | 0 | 0 | 3 | 9 | 76 | 86 | 19 | 4 | 0 | 0 | 0 | 0 | 198 |
| 2:00 | 1 | 0 | 0 | 1 | 6 | 93 | 100 | 26 | 9 | 2 | 0 | 0 | 0 | 238 |
| 3:00 | 0 | 0 | 0 | 0 | 5 | 113 | 118 | 21 | 6 | 1 | 0 | 0 | 1 | 265 |
| 4:00 | 0 | 0 | 0 | 0 | 16 | 92 | 105 | 23 | 3 | 0 | 0 | 0 | 0 | 239 |
| 5:00 | 0 | 4 | 2 | 2 | 14 | 112 | 106 | 25 | 4 | 1 | 0 | 0 | 0 | 270 |
| 6:00 | 0 | 0 | 0 | 1 | 14 | 33 | 65 | 7 | 2 | 0 | 0 | 1 | 1 | 124 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 18 | 21 | 6 | 3 | 0 | 0 | 0 | 0 | 51 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 20 | 22 | 10 | 2 | 0 | 0 | 0 | 0 | 55 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 16 | 30 | 6 | 1 | 0 | 0 | 0 | 0 | 58 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 11 | 11 | 5 | 1 | 1 | 0 | 0 | 0 | 31 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 6 | 5 | 4 | 9 | 135 | 920 | 1134 | 281 | 60 | 10 | 1 | 1 | 2 | 2568 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 10 | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 25 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 9 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 28 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 27 | 37 | 15 | 2 | 0 | 0 | 0 | 0 | 83 |
| 8:00 | 1 | 0 | 0 | 0 | 3 | 42 | 60 | 14 | 2 | 0 | 0 | 0 | 0 | 122 |
| 9:00 | 1 | 0 | 0 | 0 | 12 | 66 | 80 | 10 | 3 | 0 | 0 | 0 | 0 | 172 |
| 10:00 | 0 | 0 | 0 | 3 | 29 | 113 | 67 | 12 | 1 | 0 | 0 | 0 | 0 | 225 |
| 11:00 | 3 | 0 | 0 | 1 | 16 | 103 | 96 | 18 | 1 | 1 | 0 | 0 | 0 | 239 |
| 12:00 PM | 0 | 0 | 1 | 0 | 18 | 99 | 99 | 22 | 0 | 1 | 0 | 0 | 0 | 240 |
| 1:00 | 4 | 0 | 0 | 2 | 22 | 124 | 122 | 13 | 0 | 0 | 0 | 0 | 0 | 287 |
| 2:00 | 0 | 0 | 1 | 0 | 20 | 172 | 121 | 26 | 7 | 0 | 0 | 0 | 0 | 347 |
| 3:00 | 0 | 0 | 0 | 1 | 29 | 167 | 134 | 27 | 1 | 1 | 0 | 0 | 0 | 360 |
| 4:00 | 2 | 0 | 0 | 0 | 6 | 128 | 122 | 25 | 1 | 1 | 1 | 0 | 0 | 286 |
| 5:00 | 0 | 0 | 0 | 0 | 18 | 97 | 100 | 16 | 3 | 0 | 0 | 0 | 0 | 234 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 53 | 65 | 8 | 3 | 1 | 0 | 0 | 0 | 139 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 22 | 31 | 11 | 6 | 1 | 0 | 0 | 0 | 72 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 12 | 19 | 11 | 0 | 0 | 0 | 0 | 0 | 42 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 17 | 16 | 10 | 1 | 0 | 0 | 0 | 0 | 47 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 9 | 15 | 1 | 1 | 0 | 0 | 0 | 0 | 29 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 11 | 0 | 2 | 7 | 194 | 1279 | 1215 | 252 | 33 | 7 | 1 | 0 | 0 | 3001 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 8 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 9 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 30 | 47 | 14 | 0 | 0 | 0 | 0 | 0 | 93 |
| 8:00 | 1 | 3 | 3 | 8 | 11 | 42 | 55 | 12 | 0 | 0 | 0 | 0 | 0 | 135 |
| 9:00 | 1 | 1 | 1 | 2 | 9 | 78 | 81 | 15 | 0 | 0 | 0 | 0 | 0 | 188 |
| 10:00 | 7 | 0 | 0 | 3 | 16 | 114 | 91 | 12 | 0 | 0 | 0 | 0 | 0 | 243 |
| 11:00 | 3 | 0 | 0 | 3 | 13 | 113 | 109 | 23 | 3 | 2 | 0 | 0 | 0 | 269 |
| 12:00 PM | 0 | 0 | 0 | 1 | 7 | 78 | 136 | 38 | 7 | 1 | 0 | 0 | 0 | 268 |
| 1:00 | 0 | 0 | 0 | 6 | 10 | 121 | 164 | 32 | 1 | 1 | 0 | 0 | 0 | 335 |
| 2:00 | 2 | 0 | 2 | 1 | 4 | 102 | 136 | 51 | 11 | 1 | 0 | 0 | 0 | 310 |
| 3:00 | 0 | 0 | 0 | 8 | 17 | 115 | 147 | 44 | 2 | 0 | 0 | 0 | 0 | 333 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 61 | 155 | 58 | 7 | 3 | 1 | 0 | 0 | 286 |
| 5:00 | 1 | 0 | 0 | 0 | 10 | 60 | 131 | 44 | 5 | 0 | 0 | 0 | 0 | 251 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 42 | 85 | 28 | 5 | 3 | 1 | 0 | 0 | 164 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 14 | 21 | 19 | 1 | 0 | 0 | 0 | 0 | 55 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 10 | 24 | 13 | 2 | 3 | 0 | 0 | 0 | 52 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 13 | 29 | 10 | 1 | 0 | 0 | 0 | 0 | 58 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 4 | 12 | 8 | 0 | 1 | 0 | 0 | 0 | 26 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 16 | 4 | 6 | 32 | 113 | 1019 | 1450 | 439 | 48 | 16 | 2 | 0 | 0 | 3145 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 3 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 8 | 12 | 5 | 1 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 15 | 36 | 19 | 4 | 0 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 2 | 3 | 26 | 66 | 25 | 4 | 0 | 0 | 0 | 0 | 126 |
| 9:00 | 4 | 0 | 0 | 0 | 12 | 57 | 91 | 46 | 1 | 0 | 0 | 0 | 0 | 211 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 63 | 99 | 34 | 4 | 2 | 0 | 0 | 0 | 207 |
| 11:00 | 0 | 0 | 0 | 1 | 8 | 82 | 130 | 27 | 6 | 2 | 0 | 0 | 0 | 256 |
| 12:00 PM | 0 | 0 | 0 | 0 | 11 | 82 | 124 | 36 | 10 | 2 | 0 | 0 | 0 | 265 |
| 1:00 | 0 | 0 | 0 | 0 | 9 | 80 | 170 | 54 | 5 | 1 | 0 | 0 | 0 | 319 |
| 2:00 | 2 | 0 | 0 | 0 | 7 | 129 | 163 | 39 | 7 | 2 | 0 | 0 | 0 | 349 |
| 3:00 | 1 | 0 | 0 | 1 | 17 | 102 | 163 | 40 | 6 | 0 | 0 | 0 | 0 | 330 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 82 | 149 | 48 | 4 | 1 | 1 | 0 | 1 | 289 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 78 | 120 | 44 | 4 | 0 | 0 | 0 | 0 | 249 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 43 | 67 | 22 | 7 | 0 | 0 | 0 | 0 | 142 |
| 7:00 | 0 | 0 | 0 | 1 | 8 | 31 | 52 | 16 | 11 | 1 | 0 | 0 | 0 | 120 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 14 | 42 | 16 | 3 | 1 | 0 | 0 | 0 | 76 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 35 | 27 | 12 | 2 | 2 | 0 | 0 | 0 | 78 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 12 | 25 | 8 | 1 | 0 | 1 | 0 | 0 | 53 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 3 | 2 | 0 | 0 | 0 | 0 | 15 |
| Total | 7 | 0 | 0 | 6 | 97 | 951 | 1560 | 503 | 84 | 14 | 2 | 0 | 1 | 3225 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 12 | 19 | 4 | 1 | 0 | 0 | 0 | 0 | 36 |
| 7:00 | 1 | 0 | 0 | 1 | 5 | 16 | 46 | 14 | 1 | 0 | 0 | 0 | 0 | 84 |
| 8:00 | 1 | 0 | 0 | 0 | 7 | 31 | 59 | 33 | 4 | 0 | 0 | 0 | 0 | 135 |
| 9:00 | 0 | 0 | 0 | 3 | 9 | 58 | 67 | 27 | 3 | 0 | 0 | 0 | 0 | 167 |
| 10:00 | 0 | 0 | 0 | 2 | 9 | 76 | 84 | 37 | 5 | 1 | 0 | 0 | 0 | 214 |
| 11:00 | 0 | 1 | 4 | 2 | 19 | 96 | 91 | 30 | 11 | 0 | 0 | 0 | 0 | 254 |
| 12:00 PM | 2 | 1 | 0 | 1 | 27 | 96 | 108 | 34 | 4 | 0 | 0 | 0 | 0 | 273 |
| 1:00 | 1 | 0 | 0 | 0 | 16 | 89 | 128 | 42 | 4 | 0 | 0 | 0 | 0 | 280 |
| 2:00 | 2 | 0 | 0 | 0 | 5 | 131 | 171 | 36 | 3 | 1 | 0 | 0 | 0 | 349 |
| 3:00 | 1 | 0 | 0 | 1 | 22 | 141 | 152 | 37 | 2 | 1 | 0 | 0 | 0 | 357 |
| 4:00 | 0 | 0 | 0 | 1 | 14 | 95 | 115 | 50 | 4 | 0 | 0 | 0 | 0 | 279 |
| 5:00 | 0 | 0 | 0 | 0 | 13 | 103 | 120 | 52 | 2 | 1 | 1 | 0 | 0 | 292 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 37 | 81 | 24 | 0 | 0 | 0 | 0 | 0 | 145 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 20 | 54 | 8 | 3 | 1 | 0 | 0 | 0 | 86 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 15 | 30 | 11 | 0 | 1 | 0 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 29 | 23 | 9 | 1 | 0 | 0 | 0 | 0 | 66 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 9 | 13 | 10 | 3 | 0 | 0 | 0 | 0 | 39 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 5 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 8 | 2 | 4 | 11 | 163 | 1066 | 1378 | 471 | 51 | 7 | 1 | 0 | 0 | 3162 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Southeast Bound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 9 | 20 | 5 | 0 | 1 | 0 | 0 | 0 | 36 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 18 | 32 | 22 | 2 | 1 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 31 | 84 | 32 | 4 | 1 | 0 | 0 | 0 | 152 |
| 9:00 | 1 | 0 | 0 | 0 | 4 | 54 | 90 | 31 | 2 | 1 | 0 | 0 | 0 | 183 |
| 10:00 | 0 | 0 | 1 | 0 | 8 | 87 | 97 | 27 | 1 | 0 | 0 | 0 | 0 | 221 |
| 11:00 | 0 | 1 | 1 | 3 | 19 | 83 | 109 | 32 | 7 | 1 | 0 | 0 | 1 | 257 |
| 12:00 PM | 0 | 0 | 0 | 0 | 7 | 89 | 127 | 51 | 5 | 1 | 0 | 0 | 0 | 280 |
| 1:00 | 1 | 0 | 0 | 0 | 13 | 62 | 144 | 44 | 2 | 0 | 0 | 0 | 0 | 266 |
| 2:00 | 0 | 0 | 1 | 0 | 10 | 97 | 142 | 38 | 7 | 1 | 1 | 0 | 0 | 297 |
| 3:00 | 0 | 0 | 0 | 0 | 13 | 111 | 173 | 45 | 11 | 0 | 0 | 0 | 0 | 353 |
| 4:00 | 0 | 0 | 0 | 0 | 4 | 78 | 165 | 60 | 4 | 0 | 0 | 0 | 0 | 311 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 45 | 126 | 53 | 6 | 0 | 0 | 0 | 0 | 234 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 50 | 83 | 29 | 6 | 0 | 0 | 1 | 0 | 172 |
| 7:00 | 3 | 1 | 4 | 1 | 1 | 13 | 34 | 7 | 6 | 0 | 0 | 1 | 0 | 71 |
| 8:00 | 28 | 23 | 8 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 9:00 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 33 | 26 | 15 | 9 | 92 | 837 | 1447 | 483 | 66 | 7 | 1 | 2 | 1 | 3019 |
| Grand Total | 180 | 46 | 84 | 307 | 2854 | 19931 | 22754 | 6040 | 840 | 149 | 31 | 9 | 7 | 53232 |

| Stats | | |
|---|---|---|
| | Percentile | 15th | 50th | 85th | 95th |
| | Speed | 36 | 40 | 44 | 47 |
| Mean Speed (Average) | 41.1 | | | | |
| 10 MPH Pace Speed | 36-45 | | | | |
| Number in Pace | 42685 | | | | |
| Percent in Pace | 80.0% | | | | |
| Number > 35 MPH | 49761 | | | | |
| Percent > 35 MPH | 93.5% | | | | |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 33 | 22 | 4 | 1 | 0 | 0 | 0 | 0 | 62 |
| 6:00 | 0 | 0 | 0 | 1 | 22 | 103 | 49 | 9 | 0 | 0 | 0 | 0 | 0 | 184 |
| 7:00 | 0 | 0 | 0 | 0 | 25 | 126 | 105 | 17 | 1 | 1 | 0 | 1 | 0 | 276 |
| 8:00 | 1 | 0 | 0 | 6 | 30 | 151 | 117 | 7 | 3 | 0 | 0 | 0 | 0 | 315 |
| 9:00 | 0 | 0 | 0 | 0 | 31 | 139 | 106 | 21 | 1 | 1 | 1 | 0 | 0 | 300 |
| 10:00 | 1 | 0 | 0 | 0 | 11 | 104 | 134 | 25 | 4 | 0 | 0 | 0 | 0 | 279 |
| 11:00 | 0 | 0 | 1 | 1 | 12 | 125 | 140 | 30 | 5 | 0 | 0 | 0 | 0 | 314 |
| 12:00 PM | 4 | 0 | 0 | 0 | 14 | 113 | 75 | 24 | 3 | 0 | 1 | 0 | 0 | 234 |
| 1:00 | 2 | 0 | 0 | 1 | 7 | 91 | 90 | 11 | 2 | 0 | 0 | 0 | 0 | 204 |
| 2:00 | 0 | 0 | 0 | 0 | 15 | 93 | 78 | 16 | 2 | 1 | 1 | 0 | 0 | 206 |
| 3:00 | 0 | 0 | 0 | 0 | 5 | 64 | 87 | 11 | 2 | 2 | 0 | 0 | 0 | 171 |
| 4:00 | 1 | 0 | 0 | 0 | 6 | 50 | 74 | 23 | 1 | 1 | 1 | 0 | 0 | 157 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 51 | 59 | 14 | 0 | 0 | 0 | 0 | 0 | 127 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 37 | 35 | 7 | 1 | 0 | 1 | 0 | 0 | 84 |
| 7:00 | 0 | 0 | 0 | 2 | 1 | 15 | 28 | 8 | 1 | 1 | 0 | 0 | 0 | 56 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 8 | 22 | 11 | 2 | 0 | 0 | 0 | 0 | 45 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 8 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 29 |
| 10:00 | 0 | 0 | 1 | 0 | 0 | 7 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 9 | 0 | 2 | 13 | 187 | 1324 | 1258 | 248 | 32 | 7 | 5 | 1 | 0 | 3086 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 21 | 26 | 6 | 1 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 131 | 58 | 8 | 1 | 0 | 0 | 0 | 0 | 206 |
| 7:00 | 0 | 0 | 0 | 6 | 37 | 140 | 84 | 9 | 0 | 0 | 0 | 0 | 0 | 276 |
| 8:00 | 0 | 0 | 0 | 1 | 19 | 109 | 147 | 22 | 2 | 0 | 0 | 0 | 0 | 300 |
| 9:00 | 0 | 0 | 0 | 0 | 14 | 171 | 139 | 22 | 3 | 1 | 0 | 0 | 0 | 350 |
| 10:00 | 0 | 0 | 0 | 1 | 15 | 136 | 104 | 26 | 1 | 0 | 0 | 0 | 0 | 283 |
| 11:00 | 1 | 0 | 0 | 0 | 11 | 121 | 97 | 17 | 5 | 0 | 0 | 0 | 0 | 252 |
| 12:00 PM | 0 | 0 | 0 | 0 | 10 | 95 | 96 | 30 | 7 | 1 | 0 | 0 | 0 | 239 |
| 1:00 | 0 | 0 | 0 | 0 | 17 | 98 | 84 | 13 | 6 | 0 | 0 | 0 | 0 | 218 |
| 2:00 | 2 | 0 | 0 | 0 | 8 | 67 | 89 | 18 | 3 | 0 | 0 | 0 | 0 | 187 |
| 3:00 | 0 | 0 | 0 | 4 | 13 | 55 | 63 | 30 | 5 | 0 | 0 | 0 | 0 | 170 |
| 4:00 | 4 | 0 | 0 | 0 | 1 | 82 | 81 | 13 | 1 | 0 | 0 | 0 | 0 | 182 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 49 | 76 | 11 | 3 | 0 | 0 | 0 | 0 | 140 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 29 | 36 | 5 | 0 | 0 | 0 | 0 | 0 | 72 |
| 7:00 | 0 | 0 | 0 | 1 | 0 | 15 | 40 | 6 | 5 | 0 | 0 | 0 | 0 | 67 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 17 | 22 | 6 | 1 | 0 | 0 | 0 | 0 | 47 |
| 9:00 | 1 | 0 | 0 | 0 | 0 | 16 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 32 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 5 | 1 | 0 | 0 | 0 | 0 | 17 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 8 | 0 | 0 | 13 | 159 | 1359 | 1276 | 253 | 46 | 3 | 0 | 0 | 0 | 3117 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 16 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 49 |
| 6:00 | 0 | 0 | 0 | 0 | 28 | 88 | 47 | 5 | 1 | 0 | 0 | 0 | 0 | 169 |
| 7:00 | 0 | 0 | 0 | 0 | 25 | 146 | 101 | 8 | 3 | 0 | 0 | 0 | 0 | 283 |
| 8:00 | 0 | 1 | 1 | 1 | 18 | 138 | 101 | 21 | 0 | 1 | 0 | 0 | 0 | 282 |
| 9:00 | 0 | 0 | 0 | 0 | 26 | 124 | 132 | 24 | 0 | 1 | 0 | 0 | 0 | 307 |
| 10:00 | 1 | 0 | 0 | 5 | 25 | 101 | 103 | 20 | 2 | 3 | 0 | 0 | 0 | 260 |
| 11:00 | 1 | 0 | 2 | 4 | 12 | 101 | 122 | 24 | 3 | 0 | 0 | 0 | 0 | 269 |
| 12:00 PM | 0 | 0 | 1 | 0 | 7 | 107 | 127 | 27 | 4 | 0 | 0 | 0 | 0 | 273 |
| 1:00 | 0 | 0 | 0 | 0 | 18 | 79 | 95 | 17 | 3 | 1 | 0 | 0 | 0 | 213 |
| 2:00 | 1 | 0 | 1 | 3 | 3 | 67 | 94 | 23 | 0 | 0 | 0 | 0 | 1 | 193 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 51 | 105 | 19 | 2 | 2 | 0 | 0 | 0 | 180 |
| 4:00 | 0 | 0 | 0 | 5 | 6 | 87 | 87 | 27 | 11 | 0 | 0 | 0 | 0 | 223 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 57 | 72 | 14 | 4 | 1 | 1 | 0 | 0 | 150 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 30 | 52 | 5 | 4 | 0 | 0 | 0 | 0 | 94 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 23 | 41 | 18 | 0 | 1 | 0 | 0 | 0 | 84 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 18 | 28 | 7 | 1 | 0 | 0 | 0 | 0 | 54 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 10 | 21 | 4 | 3 | 0 | 0 | 0 | 0 | 38 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 4 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 19 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 4 | 3 | 0 | 0 | 0 | 0 | 19 |
| Total | 3 | 1 | 5 | 19 | 175 | 1261 | 1378 | 278 | 44 | 10 | 1 | 0 | 1 | 3176 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 2 | 1 | 1 | 1 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 22 | 22 | 7 | 1 | 0 | 1 | 0 | 0 | 54 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 52 | 48 | 14 | 2 | 1 | 0 | 0 | 0 | 118 |
| 7:00 | 1 | 0 | 0 | 0 | 16 | 61 | 75 | 9 | 4 | 0 | 0 | 0 | 0 | 166 |
| 8:00 | 0 | 0 | 3 | 0 | 9 | 82 | 91 | 19 | 6 | 0 | 0 | 0 | 0 | 210 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 100 | 104 | 27 | 3 | 0 | 0 | 0 | 0 | 236 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 78 | 107 | 36 | 2 | 0 | 0 | 0 | 0 | 227 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 67 | 84 | 38 | 1 | 0 | 0 | 0 | 0 | 192 |
| 12:00 PM | 0 | 0 | 0 | 3 | 18 | 101 | 92 | 22 | 3 | 0 | 1 | 1 | 0 | 241 |
| 1:00 | 0 | 0 | 0 | 3 | 11 | 82 | 95 | 27 | 5 | 2 | 0 | 0 | 0 | 225 |
| 2:00 | 0 | 0 | 0 | 1 | 6 | 74 | 101 | 32 | 3 | 0 | 0 | 1 | 0 | 218 |
| 3:00 | 0 | 0 | 0 | 0 | 5 | 74 | 106 | 18 | 5 | 1 | 0 | 0 | 0 | 209 |
| 4:00 | 0 | 0 | 0 | 0 | 10 | 76 | 88 | 29 | 2 | 0 | 0 | 0 | 0 | 205 |
| 5:00 | 2 | 0 | 0 | 0 | 2 | 64 | 85 | 23 | 2 | 1 | 0 | 0 | 0 | 179 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 40 | 58 | 27 | 2 | 0 | 0 | 0 | 0 | 133 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 29 | 36 | 10 | 5 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 33 | 41 | 9 | 2 | 0 | 0 | 0 | 0 | 86 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 14 | 20 | 2 | 2 | 1 | 1 | 0 | 0 | 45 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 2 | 4 | 1 | 0 | 0 | 0 | 21 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 1 | 0 | 1 | 0 | 0 | 12 |
| Total | 3 | 0 | 3 | 8 | 100 | 1060 | 1281 | 359 | 59 | 8 | 6 | 2 | 0 | 2889 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 7 | 2 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 24 | 22 | 3 | 1 | 0 | 0 | 0 | 0 | 51 |
| 6:00 | 0 | 0 | 1 | 0 | 0 | 29 | 29 | 7 | 1 | 0 | 0 | 0 | 0 | 67 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 20 | 47 | 20 | 3 | 0 | 0 | 0 | 0 | 91 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 32 | 72 | 18 | 3 | 2 | 1 | 0 | 0 | 131 |
| 9:00 | 2 | 0 | 0 | 1 | 4 | 53 | 78 | 18 | 12 | 0 | 0 | 0 | 0 | 168 |
| 10:00 | 0 | 0 | 0 | 0 | 15 | 124 | 92 | 24 | 7 | 0 | 0 | 0 | 0 | 262 |
| 11:00 | 0 | 0 | 0 | 0 | 9 | 107 | 112 | 21 | 3 | 0 | 0 | 0 | 0 | 252 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 92 | 114 | 31 | 7 | 1 | 0 | 0 | 0 | 245 |
| 1:00 | 0 | 0 | 0 | 0 | 6 | 120 | 123 | 28 | 2 | 0 | 0 | 0 | 0 | 279 |
| 2:00 | 0 | 0 | 0 | 0 | 3 | 52 | 107 | 36 | 4 | 1 | 0 | 0 | 0 | 203 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 38 | 102 | 29 | 2 | 1 | 0 | 0 | 0 | 174 |
| 4:00 | 0 | 0 | 1 | 1 | 0 | 65 | 66 | 26 | 1 | 1 | 0 | 0 | 0 | 161 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 43 | 62 | 18 | 6 | 0 | 0 | 0 | 0 | 132 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 31 | 34 | 9 | 2 | 1 | 0 | 0 | 0 | 79 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 11 | 29 | 13 | 2 | 0 | 0 | 0 | 0 | 55 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 20 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 48 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 8 | 15 | 5 | 2 | 0 | 0 | 0 | 0 | 30 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 3 | 1 | 0 | 1 | 0 | 0 | 13 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 2 | 0 | 2 | 3 | 49 | 881 | 1143 | 326 | 62 | 7 | 2 | 1 | 0 | 2478 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 28 | 26 | 2 | 1 | 0 | 0 | 0 | 0 | 58 |
| 6:00 | 0 | 0 | 1 | 10 | 20 | 100 | 55 | 3 | 1 | 1 | 1 | 0 | 0 | 192 |
| 7:00 | 0 | 0 | 0 | 0 | 23 | 156 | 79 | 15 | 2 | 0 | 0 | 0 | 0 | 275 |
| 8:00 | 0 | 0 | 0 | 2 | 29 | 127 | 145 | 13 | 2 | 0 | 0 | 0 | 0 | 318 |
| 9:00 | 2 | 0 | 2 | 0 | 34 | 110 | 102 | 20 | 0 | 0 | 0 | 0 | 0 | 270 |
| 10:00 | 3 | 0 | 0 | 2 | 30 | 137 | 110 | 18 | 3 | 0 | 0 | 0 | 0 | 303 |
| 11:00 | 2 | 0 | 0 | 1 | 18 | 138 | 108 | 16 | 1 | 0 | 0 | 0 | 0 | 284 |
| 12:00 PM | 0 | 0 | 0 | 3 | 15 | 86 | 132 | 22 | 2 | 0 | 0 | 0 | 0 | 260 |
| 1:00 | 0 | 0 | 0 | 4 | 14 | 86 | 116 | 22 | 5 | 0 | 0 | 0 | 0 | 247 |
| 2:00 | 0 | 0 | 0 | 0 | 5 | 75 | 92 | 32 | 11 | 0 | 0 | 0 | 0 | 215 |
| 3:00 | 1 | 0 | 0 | 1 | 1 | 42 | 94 | 24 | 6 | 2 | 1 | 0 | 0 | 172 |
| 4:00 | 1 | 0 | 0 | 2 | 10 | 64 | 77 | 23 | 4 | 1 | 0 | 0 | 0 | 182 |
| 5:00 | 1 | 0 | 0 | 2 | 5 | 67 | 64 | 13 | 2 | 0 | 0 | 0 | 0 | 154 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 31 | 49 | 12 | 4 | 0 | 0 | 0 | 0 | 99 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 29 | 47 | 13 | 3 | 0 | 0 | 0 | 0 | 92 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 26 | 27 | 9 | 0 | 0 | 1 | 0 | 0 | 65 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 12 | 12 | 8 | 1 | 1 | 0 | 0 | 0 | 36 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 19 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 0 | 1 | 1 | 0 | 12 |
| Total | 10 | 0 | 3 | 28 | 212 | 1327 | 1363 | 272 | 51 | 6 | 4 | 1 | 0 | 3277 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 20 | 26 | 7 | 1 | 0 | 0 | 0 | 0 | 58 |
| 6:00 | 0 | 0 | 0 | 0 | 22 | 120 | 52 | 8 | 1 | 1 | 0 | 0 | 0 | 204 |
| 7:00 | 0 | 0 | 1 | 3 | 39 | 141 | 109 | 12 | 3 | 1 | 0 | 0 | 0 | 309 |
| 8:00 | 0 | 0 | 3 | 4 | 26 | 190 | 122 | 20 | 5 | 1 | 0 | 0 | 0 | 371 |
| 9:00 | 0 | 0 | 0 | 4 | 19 | 159 | 127 | 25 | 8 | 0 | 0 | 0 | 0 | 342 |
| 10:00 | 4 | 0 | 1 | 4 | 29 | 130 | 118 | 39 | 2 | 1 | 0 | 0 | 0 | 328 |
| 11:00 | 2 | 0 | 0 | 1 | 12 | 151 | 147 | 30 | 3 | 0 | 0 | 0 | 1 | 347 |
| 12:00 PM | 1 | 0 | 1 | 2 | 28 | 105 | 113 | 34 | 2 | 0 | 0 | 0 | 0 | 286 |
| 1:00 | 0 | 0 | 0 | 0 | 11 | 108 | 101 | 25 | 0 | 0 | 0 | 0 | 0 | 245 |
| 2:00 | 1 | 1 | 4 | 1 | 6 | 66 | 87 | 20 | 3 | 0 | 0 | 0 | 2 | 191 |
| 3:00 | 2 | 0 | 0 | 1 | 12 | 59 | 97 | 31 | 1 | 0 | 0 | 0 | 0 | 203 |
| 4:00 | 1 | 0 | 0 | 0 | 8 | 77 | 101 | 25 | 6 | 0 | 0 | 0 | 0 | 218 |
| 5:00 | 1 | 0 | 0 | 1 | 8 | 72 | 80 | 20 | 3 | 1 | 0 | 0 | 0 | 186 |
| 6:00 | 0 | 0 | 0 | 1 | 4 | 40 | 47 | 16 | 4 | 2 | 0 | 0 | 0 | 114 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 15 | 28 | 12 | 3 | 0 | 0 | 0 | 0 | 61 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 22 | 28 | 8 | 3 | 1 | 0 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 11 | 22 | 7 | 0 | 0 | 0 | 0 | 0 | 40 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 8 | 8 | 4 | 0 | 1 | 1 | 0 | 0 | 23 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 12 | 1 | 10 | 22 | 232 | 1513 | 1427 | 347 | 49 | 9 | 1 | 0 | 3 | 3626 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 30 | 23 | 5 | 0 | 1 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 0 | 15 | 89 | 51 | 11 | 1 | 0 | 0 | 0 | 0 | 167 |
| 7:00 | 0 | 0 | 0 | 2 | 19 | 123 | 133 | 14 | 1 | 0 | 0 | 0 | 0 | 292 |
| 8:00 | 0 | 0 | 0 | 0 | 22 | 114 | 128 | 27 | 3 | 1 | 0 | 1 | 0 | 296 |
| 9:00 | 4 | 4 | 4 | 5 | 8 | 133 | 112 | 21 | 1 | 0 | 0 | 0 | 0 | 292 |
| 10:00 | 1 | 0 | 0 | 0 | 13 | 80 | 139 | 32 | 2 | 0 | 0 | 0 | 0 | 267 |
| 11:00 | 2 | 0 | 0 | 4 | 13 | 81 | 123 | 32 | 3 | 0 | 0 | 0 | 0 | 258 |
| 12:00 PM | 2 | 0 | 0 | 0 | 19 | 99 | 142 | 28 | 1 | 4 | 0 | 0 | 0 | 295 |
| 1:00 | 0 | 0 | 5 | 1 | 6 | 95 | 113 | 38 | 9 | 1 | 0 | 0 | 0 | 268 |
| 2:00 | 2 | 0 | 0 | 0 | 1 | 80 | 94 | 33 | 6 | 0 | 0 | 0 | 0 | 216 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 51 | 104 | 48 | 6 | 3 | 0 | 0 | 1 | 215 |
| 4:00 | 2 | 0 | 0 | 0 | 11 | 60 | 98 | 27 | 4 | 1 | 0 | 0 | 0 | 203 |
| 5:00 | 0 | 0 | 0 | 3 | 4 | 63 | 59 | 25 | 1 | 0 | 0 | 0 | 0 | 155 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 51 | 45 | 7 | 0 | 0 | 0 | 0 | 0 | 108 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 24 | 34 | 8 | 4 | 0 | 0 | 0 | 0 | 72 |
| 8:00 | 0 | 0 | 0 | 2 | 4 | 26 | 27 | 6 | 3 | 0 | 0 | 0 | 0 | 68 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 13 | 17 | 6 | 0 | 2 | 0 | 0 | 0 | 39 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 12 | 7 | 2 | 1 | 0 | 0 | 0 | 27 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 9 |
| Total | 13 | 4 | 9 | 18 | 146 | 1227 | 1465 | 381 | 49 | 16 | 0 | 1 | 1 | 3330 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 18 | 15 | 2 | 2 | 0 | 0 | 0 | 0 | 37 |
| 6:00 | 0 | 0 | 0 | 0 | 16 | 37 | 36 | 5 | 1 | 0 | 0 | 0 | 0 | 95 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 36 | 57 | 15 | 0 | 0 | 0 | 0 | 0 | 109 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 42 | 42 | 15 | 2 | 0 | 0 | 0 | 0 | 105 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 50 | 75 | 20 | 5 | 0 | 0 | 0 | 0 | 153 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 58 | 64 | 26 | 6 | 0 | 1 | 0 | 0 | 160 |
| 11:00 | 1 | 0 | 0 | 2 | 2 | 75 | 84 | 30 | 6 | 1 | 0 | 0 | 0 | 201 |
| 12:00 PM | 0 | 0 | 0 | 0 | 7 | 105 | 99 | 7 | 3 | 2 | 1 | 0 | 0 | 224 |
| 1:00 | 0 | 0 | 0 | 1 | 4 | 66 | 71 | 18 | 2 | 0 | 0 | 0 | 0 | 162 |
| 2:00 | 0 | 0 | 0 | 1 | 6 | 77 | 74 | 15 | 1 | 1 | 0 | 0 | 0 | 175 |
| 3:00 | 0 | 0 | 0 | 0 | 13 | 46 | 42 | 10 | 2 | 0 | 0 | 0 | 0 | 113 |
| 4:00 | 0 | 0 | 1 | 0 | 6 | 59 | 44 | 13 | 1 | 1 | 0 | 0 | 0 | 125 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 37 | 35 | 4 | 4 | 0 | 0 | 0 | 0 | 83 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 21 | 26 | 11 | 1 | 0 | 0 | 0 | 0 | 62 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 8 | 0 | 1 | 0 | 0 | 0 | 27 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 14 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 4 | 7 | 6 | 2 | 1 | 0 | 0 | 0 | 22 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 10 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 1 | 0 | 1 | 5 | 77 | 768 | 811 | 213 | 40 | 8 | 2 | 0 | 1 | 1927 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 20 | 22 | 1 | 1 | 0 | 0 | 0 | 0 | 47 |
| 6:00 | 0 | 1 | 0 | 9 | 21 | 55 | 25 | 5 | 2 | 0 | 0 | 0 | 0 | 118 |
| 7:00 | 0 | 0 | 0 | 0 | 11 | 65 | 64 | 14 | 4 | 0 | 0 | 0 | 0 | 158 |
| 8:00 | 1 | 0 | 0 | 0 | 12 | 120 | 78 | 5 | 0 | 0 | 0 | 0 | 0 | 216 |
| 9:00 | 2 | 0 | 1 | 0 | 4 | 88 | 99 | 22 | 3 | 1 | 0 | 0 | 0 | 220 |
| 10:00 | 5 | 0 | 0 | 2 | 15 | 90 | 72 | 28 | 13 | 1 | 0 | 0 | 0 | 226 |
| 11:00 | 0 | 0 | 0 | 3 | 20 | 111 | 111 | 23 | 4 | 0 | 0 | 0 | 0 | 272 |
| 12:00 PM | 0 | 0 | 2 | 22 | 21 | 97 | 143 | 27 | 6 | 1 | 0 | 0 | 0 | 319 |
| 1:00 | 2 | 0 | 0 | 4 | 10 | 119 | 120 | 26 | 3 | 0 | 1 | 0 | 0 | 285 |
| 2:00 | 1 | 0 | 0 | 0 | 10 | 127 | 129 | 25 | 1 | 0 | 0 | 0 | 0 | 293 |
| 3:00 | 1 | 0 | 0 | 1 | 16 | 125 | 106 | 26 | 3 | 1 | 0 | 0 | 0 | 279 |
| 4:00 | 2 | 0 | 0 | 1 | 31 | 145 | 121 | 26 | 2 | 1 | 0 | 0 | 0 | 329 |
| 5:00 | 0 | 0 | 0 | 0 | 18 | 84 | 107 | 27 | 7 | 0 | 0 | 1 | 0 | 244 |
| 6:00 | 0 | 0 | 0 | 0 | 14 | 50 | 50 | 12 | 0 | 0 | 0 | 0 | 0 | 126 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 26 | 26 | 15 | 5 | 2 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 13 | 25 | 13 | 2 | 1 | 0 | 0 | 0 | 56 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 19 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 37 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 4 | 0 | 2 | 0 | 0 | 0 | 18 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 14 | 1 | 3 | 44 | 212 | 1364 | 1321 | 305 | 56 | 10 | 1 | 1 | 0 | 3332 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 15 | 17 | 5 | 1 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 47 | 18 | 5 | 2 | 0 | 0 | 0 | 0 | 74 |
| 7:00 | 0 | 0 | 0 | 0 | 12 | 42 | 62 | 17 | 2 | 0 | 0 | 1 | 0 | 136 |
| 8:00 | 0 | 0 | 0 | 0 | 8 | 61 | 69 | 19 | 1 | 2 | 0 | 0 | 0 | 160 |
| 9:00 | 1 | 0 | 2 | 1 | 20 | 101 | 76 | 25 | 2 | 1 | 0 | 1 | 0 | 230 |
| 10:00 | 0 | 1 | 0 | 0 | 10 | 95 | 88 | 11 | 0 | 0 | 0 | 0 | 0 | 205 |
| 11:00 | 0 | 0 | 1 | 3 | 9 | 75 | 105 | 38 | 9 | 0 | 1 | 0 | 1 | 242 |
| 12:00 PM | 0 | 0 | 0 | 2 | 5 | 109 | 130 | 32 | 5 | 1 | 0 | 0 | 0 | 284 |
| 1:00 | 0 | 0 | 1 | 0 | 28 | 83 | 86 | 29 | 2 | 0 | 0 | 0 | 0 | 229 |
| 2:00 | 1 | 0 | 0 | 0 | 20 | 93 | 84 | 20 | 1 | 1 | 0 | 0 | 0 | 220 |
| 3:00 | 0 | 0 | 1 | 3 | 14 | 71 | 77 | 28 | 0 | 1 | 0 | 0 | 0 | 195 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 58 | 89 | 20 | 0 | 1 | 0 | 0 | 0 | 171 |
| 5:00 | 0 | 0 | 0 | 0 | 10 | 56 | 76 | 16 | 3 | 0 | 0 | 0 | 0 | 161 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 49 | 39 | 12 | 1 | 0 | 0 | 0 | 0 | 102 |
| 7:00 | 0 | 0 | 0 | 1 | 2 | 20 | 35 | 10 | 1 | 0 | 0 | 0 | 0 | 69 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 16 | 31 | 7 | 1 | 0 | 0 | 0 | 0 | 58 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 21 | 10 | 9 | 1 | 0 | 1 | 0 | 0 | 42 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 20 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 2 | 1 | 5 | 10 | 151 | 1028 | 1107 | 312 | 34 | 8 | 2 | 2 | 1 | 2663 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 19 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 0 | 0 | 1 | 0 | 14 | 27 | 5 | 0 | 0 | 0 | 0 | 0 | 47 |
| 7:00 | 0 | 0 | 0 | 1 | 0 | 26 | 47 | 16 | 8 | 0 | 0 | 0 | 1 | 99 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 25 | 65 | 16 | 3 | 0 | 0 | 0 | 0 | 110 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 43 | 82 | 12 | 6 | 0 | 0 | 0 | 0 | 145 |
| 10:00 | 1 | 0 | 0 | 0 | 4 | 86 | 113 | 17 | 0 | 0 | 0 | 1 | 0 | 222 |
| 11:00 | 4 | 1 | 1 | 0 | 2 | 80 | 123 | 29 | 1 | 1 | 0 | 0 | 0 | 242 |
| 12:00 PM | 0 | 0 | 0 | 0 | 8 | 73 | 89 | 30 | 12 | 0 | 0 | 0 | 0 | 212 |
| 1:00 | 1 | 0 | 1 | 0 | 1 | 84 | 91 | 24 | 7 | 1 | 0 | 0 | 0 | 210 |
| 2:00 | 0 | 0 | 0 | 0 | 17 | 62 | 82 | 15 | 1 | 1 | 0 | 0 | 0 | 178 |
| 3:00 | 1 | 0 | 0 | 0 | 4 | 59 | 63 | 12 | 3 | 0 | 0 | 0 | 0 | 142 |
| 4:00 | 1 | 0 | 0 | 0 | 6 | 54 | 55 | 11 | 2 | 0 | 0 | 0 | 0 | 129 |
| 5:00 | 0 | 0 | 0 | 0 | 7 | 38 | 48 | 9 | 5 | 0 | 0 | 0 | 0 | 107 |
| 6:00 | 0 | 0 | 0 | 2 | 5 | 25 | 36 | 6 | 0 | 0 | 0 | 0 | 0 | 74 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 20 | 25 | 12 | 4 | 0 | 0 | 0 | 0 | 64 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 9 | 20 | 7 | 2 | 0 | 0 | 0 | 0 | 38 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 5 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 14 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 8 | 1 | 2 | 5 | 63 | 738 | 1006 | 227 | 57 | 3 | 1 | 1 | 1 | 2113 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 18 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 0 | 0 | 0 | 10 | 117 | 38 | 5 | 2 | 0 | 0 | 0 | 0 | 172 |
| 7:00 | 0 | 0 | 0 | 3 | 20 | 125 | 109 | 12 | 0 | 0 | 0 | 0 | 0 | 269 |
| 8:00 | 0 | 0 | 0 | 1 | 40 | 135 | 108 | 4 | 0 | 0 | 0 | 0 | 0 | 288 |
| 9:00 | 1 | 0 | 0 | 0 | 27 | 122 | 104 | 17 | 0 | 0 | 0 | 0 | 0 | 271 |
| 10:00 | 0 | 0 | 0 | 1 | 36 | 110 | 67 | 19 | 3 | 0 | 1 | 0 | 0 | 237 |
| 11:00 | 0 | 0 | 1 | 3 | 12 | 102 | 90 | 21 | 2 | 0 | 0 | 0 | 0 | 231 |
| 12:00 PM | 0 | 0 | 0 | 1 | 15 | 116 | 94 | 14 | 1 | 1 | 0 | 0 | 0 | 242 |
| 1:00 | 3 | 0 | 0 | 1 | 13 | 123 | 65 | 15 | 2 | 3 | 0 | 0 | 0 | 225 |
| 2:00 | 0 | 0 | 0 | 0 | 6 | 80 | 79 | 14 | 2 | 0 | 0 | 0 | 0 | 181 |
| 3:00 | 1 | 0 | 0 | 1 | 5 | 47 | 74 | 21 | 4 | 0 | 0 | 0 | 1 | 154 |
| 4:00 | 1 | 0 | 0 | 0 | 6 | 61 | 48 | 26 | 0 | 0 | 0 | 0 | 0 | 142 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 38 | 52 | 6 | 2 | 0 | 0 | 0 | 0 | 99 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 30 | 36 | 9 | 0 | 0 | 0 | 0 | 0 | 77 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 10 | 23 | 7 | 0 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 11 | 27 | 12 | 0 | 1 | 0 | 0 | 0 | 52 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 10 | 13 | 6 | 2 | 1 | 0 | 0 | 0 | 33 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| Total | 6 | 0 | 1 | 12 | 196 | 1269 | 1059 | 213 | 24 | 6 | 1 | 0 | 1 | 2788 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 1 | 11 | 27 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 0 | 1 | 25 | 115 | 45 | 2 | 0 | 0 | 0 | 0 | 0 | 188 |
| 7:00 | 0 | 0 | 0 | 0 | 27 | 159 | 76 | 6 | 1 | 0 | 0 | 0 | 0 | 269 |
| 8:00 | 0 | 0 | 2 | 1 | 59 | 172 | 77 | 8 | 4 | 0 | 0 | 0 | 0 | 323 |
| 9:00 | 0 | 0 | 1 | 3 | 30 | 120 | 101 | 16 | 4 | 0 | 0 | 0 | 0 | 275 |
| 10:00 | 0 | 0 | 0 | 2 | 5 | 143 | 98 | 17 | 2 | 0 | 0 | 0 | 0 | 267 |
| 11:00 | 3 | 0 | 0 | 2 | 22 | 116 | 93 | 26 | 1 | 1 | 0 | 0 | 1 | 265 |
| 12:00 PM | 2 | 0 | 0 | 1 | 6 | 102 | 99 | 29 | 4 | 1 | 0 | 0 | 0 | 244 |
| 1:00 | 0 | 0 | 0 | 0 | 11 | 53 | 97 | 19 | 7 | 0 | 0 | 0 | 0 | 187 |
| 2:00 | 1 | 0 | 0 | 0 | 11 | 80 | 82 | 18 | 2 | 0 | 0 | 0 | 0 | 194 |
| 3:00 | 0 | 0 | 0 | 0 | 4 | 57 | 73 | 34 | 2 | 0 | 0 | 0 | 0 | 170 |
| 4:00 | 1 | 0 | 0 | 0 | 2 | 60 | 63 | 20 | 3 | 1 | 0 | 0 | 0 | 150 |
| 5:00 | 1 | 0 | 0 | 2 | 7 | 35 | 46 | 8 | 1 | 1 | 0 | 0 | 0 | 101 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 23 | 47 | 7 | 2 | 1 | 0 | 0 | 0 | 81 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 25 | 22 | 5 | 1 | 0 | 0 | 0 | 0 | 56 |
| 8:00 | 0 | 0 | 0 | 1 | 3 | 20 | 23 | 6 | 3 | 0 | 0 | 0 | 0 | 56 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 10 | 9 | 5 | 1 | 0 | 0 | 0 | 0 | 26 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 13 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 8 | 0 | 3 | 14 | 228 | 1332 | 1084 | 235 | 39 | 5 | 0 | 0 | 1 | 2949 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 23 | 27 | 5 | 0 | 0 | 0 | 0 | 0 | 58 |
| 6:00 | 0 | 0 | 0 | 4 | 14 | 113 | 49 | 2 | 0 | 0 | 0 | 0 | 0 | 182 |
| 7:00 | 0 | 0 | 0 | 1 | 44 | 141 | 100 | 21 | 1 | 0 | 0 | 0 | 0 | 308 |
| 8:00 | 0 | 0 | 0 | 0 | 15 | 171 | 97 | 11 | 5 | 0 | 0 | 0 | 0 | 299 |
| 9:00 | 0 | 0 | 0 | 0 | 10 | 150 | 109 | 15 | 7 | 0 | 0 | 0 | 0 | 291 |
| 10:00 | 1 | 0 | 0 | 0 | 7 | 107 | 118 | 24 | 1 | 0 | 0 | 0 | 0 | 258 |
| 11:00 | 1 | 0 | 1 | 1 | 16 | 136 | 100 | 13 | 2 | 0 | 0 | 0 | 0 | 270 |
| 12:00 PM | 1 | 0 | 0 | 1 | 10 | 98 | 79 | 11 | 2 | 0 | 0 | 0 | 0 | 202 |
| 1:00 | 1 | 0 | 1 | 1 | 11 | 115 | 72 | 16 | 3 | 0 | 0 | 0 | 0 | 220 |
| 2:00 | 1 | 0 | 0 | 0 | 17 | 82 | 83 | 13 | 1 | 0 | 0 | 0 | 0 | 197 |
| 3:00 | 0 | 0 | 0 | 0 | 22 | 66 | 84 | 12 | 1 | 0 | 0 | 0 | 0 | 185 |
| 4:00 | 1 | 0 | 0 | 0 | 14 | 59 | 61 | 17 | 1 | 0 | 0 | 1 | 0 | 154 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 68 | 53 | 13 | 2 | 0 | 0 | 0 | 0 | 139 |
| 6:00 | 0 | 0 | 0 | 0 | 11 | 37 | 37 | 7 | 3 | 0 | 0 | 0 | 0 | 95 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 28 | 19 | 9 | 1 | 0 | 0 | 0 | 0 | 58 |
| 8:00 | 0 | 0 | 1 | 0 | 1 | 26 | 19 | 0 | 1 | 0 | 0 | 0 | 0 | 48 |
| 9:00 | 0 | 0 | 1 | 0 | 4 | 20 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 42 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 18 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 6 | 0 | 4 | 8 | 205 | 1461 | 1134 | 198 | 32 | 0 | 0 | 1 | 0 | 3049 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 34 | 25 | 1 | 1 | 0 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 1 | 26 | 100 | 55 | 4 | 0 | 0 | 0 | 0 | 0 | 186 |
| 7:00 | 0 | 0 | 0 | 1 | 34 | 151 | 59 | 1 | 0 | 0 | 0 | 0 | 0 | 246 |
| 8:00 | 0 | 0 | 0 | 1 | 55 | 172 | 64 | 6 | 0 | 0 | 0 | 0 | 0 | 298 |
| 9:00 | 2 | 0 | 0 | 0 | 19 | 145 | 108 | 18 | 1 | 0 | 0 | 0 | 0 | 293 |
| 10:00 | 0 | 0 | 0 | 1 | 13 | 137 | 86 | 15 | 4 | 0 | 0 | 0 | 0 | 256 |
| 11:00 | 1 | 0 | 0 | 0 | 18 | 131 | 74 | 11 | 0 | 0 | 0 | 0 | 0 | 235 |
| 12:00 PM | 2 | 0 | 0 | 0 | 12 | 111 | 90 | 17 | 4 | 0 | 0 | 0 | 0 | 236 |
| 1:00 | 0 | 13 | 6 | 0 | 3 | 110 | 71 | 11 | 0 | 0 | 0 | 0 | 0 | 214 |
| 2:00 | 0 | 0 | 0 | 1 | 20 | 87 | 69 | 19 | 2 | 0 | 0 | 0 | 0 | 198 |
| 3:00 | 0 | 0 | 0 | 0 | 4 | 59 | 80 | 25 | 3 | 1 | 0 | 0 | 0 | 172 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 49 | 73 | 13 | 5 | 2 | 0 | 0 | 0 | 145 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 40 | 60 | 10 | 2 | 0 | 0 | 0 | 0 | 118 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 44 | 40 | 11 | 0 | 0 | 0 | 0 | 0 | 101 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 37 | 31 | 2 | 1 | 0 | 0 | 0 | 0 | 73 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 39 | 22 | 5 | 1 | 0 | 0 | 0 | 0 | 72 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 9 | 17 | 2 | 1 | 1 | 1 | 0 | 0 | 31 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 12 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 5 | 13 | 6 | 6 | 228 | 1470 | 1036 | 175 | 25 | 4 | 1 | 0 | 0 | 2969 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Northwest Bound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 23 | 29 | 2 | 1 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 0 | 0 | 28 | 106 | 44 | 3 | 1 | 0 | 0 | 0 | 0 | 182 |
| 7:00 | 0 | 0 | 0 | 1 | 31 | 133 | 89 | 9 | 0 | 0 | 0 | 0 | 0 | 263 |
| 8:00 | 4 | 0 | 0 | 0 | 38 | 145 | 110 | 22 | 2 | 0 | 0 | 0 | 0 | 321 |
| 9:00 | 5 | 0 | 0 | 3 | 18 | 157 | 137 | 16 | 2 | 0 | 0 | 0 | 0 | 338 |
| 10:00 | 0 | 0 | 0 | 0 | 24 | 111 | 95 | 15 | 1 | 1 | 0 | 0 | 0 | 247 |
| 11:00 | 0 | 0 | 0 | 1 | 17 | 144 | 93 | 29 | 2 | 0 | 0 | 0 | 0 | 286 |
| 12:00 PM | 0 | 0 | 0 | 1 | 17 | 111 | 98 | 19 | 1 | 1 | 0 | 0 | 0 | 248 |
| 1:00 | 1 | 0 | 0 | 0 | 16 | 116 | 83 | 13 | 2 | 0 | 0 | 0 | 0 | 231 |
| 2:00 | 0 | 1 | 0 | 0 | 11 | 113 | 94 | 15 | 2 | 0 | 0 | 0 | 0 | 236 |
| 3:00 | 1 | 0 | 0 | 0 | 6 | 52 | 61 | 27 | 5 | 0 | 0 | 0 | 0 | 152 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 42 | 79 | 16 | 2 | 1 | 0 | 0 | 0 | 140 |
| 5:00 | 1 | 0 | 0 | 0 | 8 | 42 | 53 | 11 | 2 | 0 | 0 | 0 | 0 | 117 |
| 6:00 | 0 | 0 | 0 | 0 | 3 | 35 | 28 | 16 | 2 | 1 | 0 | 0 | 0 | 85 |
| 7:00 | 2 | 3 | 3 | 6 | 14 | 20 | 33 | 9 | 1 | 0 | 1 | 0 | 0 | 92 |
| 8:00 | 36 | 37 | 19 | 6 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 |
| 9:00 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 50 | 41 | 23 | 19 | 246 | 1363 | 1133 | 222 | 26 | 4 | 1 | 0 | 0 | 3128 |
| Grand Total | 160 | 63 | 82 | 247 | 2866 | 20745 | 20282 | 4564 | 725 | 114 | 28 | 11 | 10 | 49897 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 36 | 39 | 43 | 46 |
| | Mean Speed (Average) | 40.7 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 41027 | | | |
| | Percent in Pace | 82.0% | | | |
| | Number > 35 MPH | 46479 | | | |
| | Percent > 35 MPH | 93.1% | | | |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 40 | 29 | 5 | 1 | 0 | 0 | 0 | 0 | 77 |
| 6:00 | 0 | 0 | 0 | 1 | 24 | 116 | 73 | 12 | 1 | 0 | 0 | 0 | 0 | 227 |
| 7:00 | 0 | 0 | 0 | 0 | 26 | 149 | 145 | 30 | 4 | 1 | 0 | 1 | 0 | 356 |
| 8:00 | 1 | 0 | 0 | 6 | 35 | 204 | 182 | 29 | 4 | 0 | 0 | 0 | 0 | 461 |
| 9:00 | 0 | 0 | 0 | 0 | 49 | 205 | 181 | 31 | 1 | 1 | 1 | 0 | 0 | 469 |
| 10:00 | 1 | 0 | 0 | 0 | 32 | 194 | 233 | 38 | 5 | 1 | 0 | 0 | 0 | 504 |
| 11:00 | 1 | 0 | 1 | 1 | 34 | 249 | 240 | 48 | 7 | 0 | 0 | 0 | 0 | 581 |
| 12:00 PM | 8 | 2 | 6 | 12 | 39 | 218 | 189 | 50 | 4 | 0 | 1 | 0 | 0 | 529 |
| 1:00 | 3 | 0 | 0 | 4 | 47 | 239 | 205 | 28 | 5 | 0 | 0 | 0 | 0 | 531 |
| 2:00 | 0 | 0 | 1 | 12 | 56 | 221 | 195 | 45 | 4 | 1 | 1 | 0 | 0 | 536 |
| 3:00 | 0 | 0 | 0 | 2 | 26 | 225 | 217 | 39 | 4 | 2 | 0 | 0 | 0 | 515 |
| 4:00 | 2 | 0 | 0 | 0 | 19 | 205 | 193 | 42 | 2 | 2 | 2 | 0 | 0 | 467 |
| 5:00 | 1 | 0 | 0 | 2 | 13 | 183 | 166 | 32 | 0 | 0 | 0 | 0 | 0 | 397 |
| 6:00 | 0 | 0 | 0 | 4 | 11 | 94 | 101 | 31 | 5 | 0 | 1 | 0 | 0 | 247 |
| 7:00 | 0 | 0 | 0 | 2 | 6 | 30 | 71 | 14 | 1 | 1 | 0 | 0 | 0 | 125 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 18 | 44 | 25 | 5 | 0 | 0 | 0 | 0 | 96 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 36 | 68 | 12 | 2 | 0 | 0 | 0 | 0 | 121 |
| 10:00 | 0 | 0 | 1 | 0 | 4 | 23 | 38 | 11 | 2 | 1 | 0 | 0 | 0 | 80 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 8 | 11 | 5 | 1 | 0 | 0 | 0 | 0 | 26 |
| Total | 17 | 2 | 9 | 46 | 431 | 2663 | 2589 | 534 | 59 | 11 | 6 | 1 | 0 | 6368 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 1 | 1 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 9 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 27 | 29 | 6 | 1 | 0 | 0 | 0 | 0 | 65 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 147 | 76 | 10 | 2 | 0 | 0 | 0 | 0 | 243 |
| 7:00 | 1 | 0 | 0 | 6 | 39 | 165 | 114 | 31 | 1 | 2 | 0 | 0 | 0 | 359 |
| 8:00 | 1 | 0 | 0 | 2 | 21 | 156 | 219 | 48 | 4 | 0 | 0 | 0 | 0 | 451 |
| 9:00 | 1 | 0 | 0 | 0 | 20 | 252 | 213 | 46 | 4 | 2 | 0 | 0 | 0 | 538 |
| 10:00 | 0 | 0 | 0 | 1 | 30 | 262 | 201 | 44 | 5 | 1 | 0 | 0 | 0 | 544 |
| 11:00 | 1 | 3 | 2 | 3 | 40 | 238 | 202 | 51 | 9 | 0 | 0 | 0 | 0 | 549 |
| 12:00 PM | 0 | 0 | 0 | 0 | 28 | 203 | 215 | 51 | 11 | 2 | 0 | 0 | 1 | 511 |
| 1:00 | 1 | 0 | 0 | 8 | 28 | 220 | 175 | 36 | 8 | 1 | 0 | 0 | 0 | 477 |
| 2:00 | 5 | 0 | 0 | 1 | 47 | 213 | 203 | 52 | 3 | 0 | 1 | 0 | 0 | 525 |
| 3:00 | 2 | 0 | 0 | 4 | 42 | 236 | 181 | 49 | 6 | 0 | 0 | 0 | 0 | 520 |
| 4:00 | 4 | 0 | 0 | 1 | 16 | 221 | 207 | 35 | 1 | 0 | 0 | 0 | 0 | 485 |
| 5:00 | 0 | 0 | 0 | 3 | 11 | 155 | 194 | 27 | 5 | 0 | 0 | 0 | 0 | 395 |
| 6:00 | 0 | 0 | 0 | 4 | 9 | 124 | 110 | 19 | 5 | 0 | 0 | 0 | 0 | 271 |
| 7:00 | 0 | 0 | 0 | 1 | 0 | 34 | 88 | 18 | 5 | 1 | 0 | 0 | 0 | 147 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 38 | 38 | 13 | 4 | 1 | 0 | 0 | 0 | 97 |
| 9:00 | 1 | 0 | 0 | 0 | 0 | 42 | 52 | 17 | 1 | 0 | 0 | 0 | 0 | 113 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 15 | 26 | 12 | 1 | 0 | 0 | 0 | 0 | 55 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 3 | 11 | 3 | 0 | 0 | 1 | 1 | 0 | 20 |
| Total | 17 | 3 | 2 | 34 | 347 | 2761 | 2570 | 574 | 81 | 11 | 2 | 1 | 1 | 6404 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 2 | 0 | 1 | 0 | 0 | 0 | 17 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 22 | 28 | 11 | 2 | 0 | 0 | 0 | 0 | 66 |
| 6:00 | 0 | 0 | 0 | 0 | 30 | 106 | 68 | 8 | 1 | 0 | 0 | 0 | 0 | 213 |
| 7:00 | 0 | 0 | 0 | 0 | 28 | 168 | 139 | 23 | 5 | 0 | 0 | 0 | 0 | 363 |
| 8:00 | 0 | 1 | 1 | 1 | 21 | 166 | 144 | 37 | 4 | 1 | 0 | 0 | 0 | 376 |
| 9:00 | 0 | 0 | 0 | 1 | 38 | 197 | 217 | 36 | 1 | 1 | 0 | 0 | 0 | 491 |
| 10:00 | 1 | 0 | 0 | 6 | 31 | 162 | 199 | 53 | 6 | 3 | 0 | 0 | 0 | 461 |
| 11:00 | 3 | 0 | 2 | 4 | 20 | 209 | 245 | 49 | 8 | 1 | 0 | 0 | 0 | 541 |
| 12:00 PM | 0 | 0 | 4 | 4 | 20 | 211 | 273 | 52 | 7 | 0 | 0 | 0 | 0 | 571 |
| 1:00 | 1 | 0 | 0 | 1 | 25 | 178 | 233 | 43 | 6 | 1 | 0 | 0 | 0 | 488 |
| 2:00 | 4 | 0 | 1 | 3 | 12 | 180 | 244 | 56 | 2 | 2 | 0 | 0 | 1 | 505 |
| 3:00 | 0 | 0 | 1 | 10 | 42 | 202 | 232 | 37 | 8 | 3 | 1 | 0 | 0 | 536 |
| 4:00 | 0 | 0 | 0 | 5 | 12 | 181 | 186 | 54 | 13 | 2 | 0 | 0 | 0 | 453 |
| 5:00 | 0 | 0 | 0 | 2 | 27 | 174 | 173 | 25 | 6 | 1 | 1 | 0 | 0 | 409 |
| 6:00 | 0 | 0 | 0 | 0 | 7 | 102 | 134 | 30 | 4 | 2 | 0 | 0 | 0 | 279 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 47 | 82 | 31 | 0 | 1 | 0 | 0 | 0 | 165 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 28 | 52 | 17 | 5 | 0 | 0 | 0 | 0 | 104 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 49 | 57 | 14 | 3 | 0 | 0 | 0 | 0 | 128 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 25 | 35 | 7 | 2 | 0 | 0 | 0 | 0 | 71 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 13 | 16 | 9 | 3 | 0 | 0 | 0 | 0 | 42 |
| Total | 9 | 1 | 9 | 38 | 329 | 2432 | 2766 | 596 | 86 | 19 | 2 | 0 | 1 | 6288 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 7 | 14 | 2 | 2 | 1 | 1 | 0 | 0 | 28 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 15 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 29 | 26 | 7 | 1 | 0 | 1 | 0 | 0 | 65 |
| 6:00 | 0 | 1 | 0 | 0 | 2 | 59 | 67 | 17 | 2 | 1 | 0 | 0 | 0 | 149 |
| 7:00 | 2 | 0 | 0 | 1 | 19 | 83 | 115 | 15 | 6 | 0 | 0 | 0 | 0 | 241 |
| 8:00 | 0 | 0 | 3 | 0 | 11 | 122 | 151 | 31 | 10 | 0 | 0 | 0 | 0 | 328 |
| 9:00 | 0 | 0 | 0 | 1 | 8 | 165 | 178 | 46 | 5 | 0 | 0 | 0 | 0 | 403 |
| 10:00 | 1 | 0 | 0 | 5 | 15 | 188 | 184 | 58 | 5 | 0 | 0 | 0 | 0 | 456 |
| 11:00 | 1 | 0 | 0 | 2 | 22 | 154 | 196 | 62 | 3 | 0 | 0 | 0 | 0 | 440 |
| 12:00 PM | 0 | 0 | 0 | 4 | 24 | 189 | 183 | 47 | 6 | 1 | 1 | 1 | 0 | 456 |
| 1:00 | 1 | 0 | 0 | 3 | 18 | 167 | 199 | 51 | 8 | 2 | 0 | 0 | 0 | 449 |
| 2:00 | 2 | 0 | 0 | 1 | 19 | 195 | 222 | 67 | 7 | 2 | 1 | 1 | 0 | 517 |
| 3:00 | 0 | 0 | 0 | 1 | 16 | 186 | 222 | 62 | 6 | 4 | 0 | 1 | 0 | 498 |
| 4:00 | 0 | 0 | 0 | 0 | 20 | 169 | 205 | 50 | 10 | 2 | 1 | 0 | 1 | 458 |
| 5:00 | 2 | 0 | 0 | 0 | 13 | 154 | 182 | 56 | 7 | 1 | 1 | 0 | 0 | 416 |
| 6:00 | 0 | 0 | 0 | 0 | 15 | 104 | 145 | 50 | 3 | 0 | 0 | 0 | 0 | 317 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 63 | 86 | 17 | 7 | 0 | 1 | 0 | 0 | 179 |
| 8:00 | 0 | 0 | 0 | 1 | 6 | 62 | 81 | 20 | 4 | 0 | 0 | 0 | 0 | 174 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 46 | 61 | 11 | 2 | 1 | 1 | 1 | 0 | 129 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 24 | 36 | 14 | 4 | 1 | 0 | 0 | 0 | 84 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 9 | 21 | 9 | 1 | 0 | 1 | 0 | 0 | 41 |
| Total | 9 | 1 | 3 | 20 | 225 | 2180 | 2588 | 701 | 104 | 17 | 10 | 4 | 1 | 5863 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 6 | 9 | 9 | 5 | 0 | 0 | 0 | 0 | 31 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 2 | 1 | 0 | 0 | 1 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 30 | 26 | 5 | 1 | 0 | 0 | 0 | 0 | 63 |
| 6:00 | 0 | 0 | 1 | 0 | 3 | 39 | 34 | 11 | 1 | 0 | 0 | 0 | 0 | 89 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 38 | 71 | 24 | 3 | 1 | 0 | 0 | 0 | 138 |
| 8:00 | 0 | 0 | 0 | 0 | 9 | 67 | 127 | 44 | 5 | 2 | 1 | 0 | 0 | 255 |
| 9:00 | 3 | 0 | 0 | 1 | 9 | 121 | 176 | 48 | 13 | 0 | 0 | 0 | 0 | 371 |
| 10:00 | 5 | 0 | 0 | 0 | 25 | 199 | 176 | 44 | 13 | 0 | 0 | 0 | 0 | 462 |
| 11:00 | 0 | 0 | 0 | 0 | 16 | 195 | 193 | 48 | 5 | 0 | 0 | 0 | 0 | 457 |
| 12:00 PM | 1 | 0 | 0 | 1 | 10 | 196 | 202 | 50 | 8 | 1 | 0 | 0 | 0 | 469 |
| 1:00 | 0 | 0 | 0 | 2 | 16 | 195 | 224 | 59 | 7 | 0 | 0 | 0 | 0 | 503 |
| 2:00 | 0 | 0 | 1 | 1 | 9 | 135 | 217 | 74 | 5 | 2 | 0 | 0 | 0 | 444 |
| 3:00 | 0 | 0 | 0 | 0 | 14 | 132 | 215 | 64 | 5 | 4 | 1 | 0 | 0 | 435 |
| 4:00 | 0 | 0 | 1 | 1 | 9 | 154 | 176 | 53 | 5 | 2 | 0 | 1 | 0 | 402 |
| 5:00 | 0 | 0 | 0 | 3 | 25 | 145 | 142 | 40 | 7 | 1 | 0 | 0 | 0 | 363 |
| 6:00 | 0 | 0 | 0 | 2 | 9 | 92 | 121 | 18 | 3 | 1 | 0 | 0 | 0 | 246 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 36 | 74 | 27 | 2 | 2 | 0 | 0 | 0 | 141 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 36 | 51 | 17 | 1 | 0 | 0 | 0 | 0 | 105 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 33 | 54 | 15 | 2 | 0 | 0 | 0 | 0 | 106 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 31 | 28 | 8 | 2 | 0 | 1 | 0 | 0 | 75 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 9 | 0 | 3 | 11 | 167 | 1894 | 2333 | 671 | 96 | 16 | 3 | 2 | 0 | 5205 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 13 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 17 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 30 | 30 | 5 | 1 | 0 | 0 | 0 | 0 | 69 |
| 6:00 | 0 | 0 | 1 | 10 | 20 | 112 | 66 | 5 | 1 | 1 | 1 | 0 | 0 | 217 |
| 7:00 | 0 | 0 | 0 | 0 | 24 | 187 | 126 | 29 | 2 | 0 | 0 | 0 | 0 | 368 |
| 8:00 | 0 | 0 | 0 | 2 | 34 | 189 | 215 | 30 | 4 | 1 | 0 | 0 | 0 | 475 |
| 9:00 | 3 | 0 | 2 | 2 | 48 | 203 | 183 | 33 | 1 | 0 | 0 | 1 | 0 | 476 |
| 10:00 | 9 | 0 | 0 | 2 | 52 | 257 | 212 | 36 | 4 | 1 | 0 | 0 | 0 | 573 |
| 11:00 | 5 | 0 | 3 | 3 | 36 | 290 | 214 | 38 | 3 | 0 | 0 | 0 | 0 | 592 |
| 12:00 PM | 0 | 0 | 1 | 4 | 32 | 220 | 251 | 45 | 5 | 0 | 1 | 0 | 0 | 559 |
| 1:00 | 2 | 0 | 0 | 8 | 24 | 191 | 252 | 67 | 11 | 0 | 0 | 0 | 0 | 555 |
| 2:00 | 0 | 0 | 0 | 14 | 38 | 208 | 235 | 67 | 13 | 1 | 0 | 0 | 0 | 576 |
| 3:00 | 8 | 0 | 1 | 6 | 23 | 189 | 233 | 54 | 8 | 3 | 1 | 0 | 0 | 526 |
| 4:00 | 1 | 0 | 0 | 6 | 38 | 212 | 197 | 45 | 7 | 1 | 0 | 0 | 0 | 507 |
| 5:00 | 2 | 0 | 0 | 2 | 18 | 204 | 173 | 22 | 5 | 0 | 1 | 0 | 0 | 427 |
| 6:00 | 0 | 0 | 0 | 5 | 25 | 111 | 122 | 37 | 9 | 0 | 1 | 0 | 0 | 310 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 48 | 90 | 31 | 4 | 0 | 0 | 0 | 0 | 174 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 49 | 57 | 17 | 1 | 0 | 2 | 0 | 0 | 130 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 25 | 40 | 21 | 5 | 1 | 0 | 0 | 0 | 95 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 29 | 39 | 6 | 2 | 0 | 0 | 0 | 0 | 76 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 30 | 8 | 1 | 1 | 1 | 1 | 0 | 45 |
| Total | 30 | 0 | 8 | 64 | 425 | 2770 | 2779 | 607 | 90 | 12 | 8 | 2 | 0 | 6795 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 6 | 25 | 29 | 9 | 2 | 0 | 0 | 0 | 0 | 71 |
| 6:00 | 0 | 0 | 0 | 0 | 23 | 131 | 70 | 14 | 1 | 2 | 0 | 0 | 0 | 241 |
| 7:00 | 0 | 0 | 1 | 3 | 46 | 167 | 151 | 26 | 5 | 1 | 0 | 0 | 0 | 400 |
| 8:00 | 0 | 0 | 3 | 4 | 29 | 237 | 189 | 38 | 7 | 1 | 0 | 0 | 0 | 508 |
| 9:00 | 0 | 0 | 0 | 4 | 35 | 249 | 207 | 51 | 11 | 1 | 0 | 0 | 0 | 558 |
| 10:00 | 4 | 0 | 2 | 6 | 64 | 246 | 231 | 52 | 2 | 1 | 0 | 0 | 0 | 608 |
| 11:00 | 6 | 0 | 1 | 4 | 41 | 307 | 249 | 60 | 5 | 0 | 0 | 0 | 1 | 674 |
| 12:00 PM | 2 | 0 | 6 | 21 | 75 | 248 | 232 | 55 | 4 | 0 | 0 | 0 | 0 | 643 |
| 1:00 | 1 | 0 | 0 | 2 | 31 | 252 | 263 | 65 | 5 | 0 | 0 | 0 | 0 | 619 |
| 2:00 | 5 | 1 | 5 | 2 | 22 | 250 | 222 | 52 | 6 | 0 | 0 | 0 | 2 | 567 |
| 3:00 | 7 | 0 | 0 | 4 | 51 | 284 | 254 | 54 | 5 | 1 | 0 | 0 | 0 | 660 |
| 4:00 | 1 | 0 | 1 | 0 | 36 | 207 | 217 | 54 | 7 | 0 | 0 | 0 | 0 | 523 |
| 5:00 | 2 | 0 | 0 | 5 | 37 | 182 | 192 | 40 | 7 | 1 | 0 | 0 | 0 | 466 |
| 6:00 | 0 | 0 | 0 | 2 | 19 | 147 | 140 | 35 | 5 | 3 | 0 | 0 | 0 | 351 |
| 7:00 | 0 | 0 | 0 | 0 | 8 | 46 | 97 | 25 | 7 | 0 | 0 | 0 | 0 | 183 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 42 | 70 | 25 | 6 | 1 | 0 | 0 | 0 | 145 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 29 | 60 | 17 | 2 | 0 | 0 | 0 | 0 | 110 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 30 | 43 | 12 | 2 | 1 | 1 | 0 | 0 | 96 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 20 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 35 |
| Total | 28 | 1 | 19 | 57 | 535 | 3113 | 2944 | 693 | 92 | 13 | 1 | 0 | 3 | 7499 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 13 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 36 | 27 | 8 | 2 | 1 | 0 | 0 | 0 | 76 |
| 6:00 | 0 | 0 | 0 | 0 | 18 | 99 | 61 | 12 | 1 | 0 | 0 | 0 | 0 | 191 |
| 7:00 | 0 | 0 | 0 | 2 | 23 | 135 | 182 | 24 | 5 | 0 | 0 | 0 | 0 | 371 |
| 8:00 | 1 | 0 | 0 | 0 | 25 | 174 | 193 | 55 | 4 | 1 | 0 | 1 | 0 | 454 |
| 9:00 | 4 | 4 | 7 | 9 | 34 | 204 | 195 | 42 | 2 | 0 | 0 | 0 | 0 | 501 |
| 10:00 | 1 | 0 | 0 | 0 | 36 | 192 | 242 | 49 | 2 | 0 | 0 | 0 | 0 | 522 |
| 11:00 | 2 | 0 | 0 | 4 | 46 | 235 | 199 | 53 | 4 | 0 | 0 | 0 | 0 | 543 |
| 12:00 PM | 5 | 0 | 0 | 0 | 44 | 226 | 264 | 50 | 9 | 4 | 1 | 0 | 0 | 603 |
| 1:00 | 0 | 0 | 5 | 4 | 16 | 209 | 253 | 79 | 21 | 1 | 0 | 0 | 0 | 588 |
| 2:00 | 3 | 0 | 0 | 0 | 22 | 224 | 235 | 68 | 10 | 0 | 0 | 0 | 0 | 562 |
| 3:00 | 0 | 0 | 0 | 2 | 27 | 217 | 238 | 76 | 10 | 4 | 0 | 0 | 1 | 575 |
| 4:00 | 2 | 0 | 0 | 2 | 29 | 202 | 214 | 62 | 6 | 1 | 0 | 0 | 0 | 518 |
| 5:00 | 0 | 0 | 0 | 3 | 19 | 166 | 183 | 49 | 5 | 0 | 0 | 0 | 0 | 425 |
| 6:00 | 0 | 0 | 0 | 0 | 22 | 127 | 141 | 25 | 2 | 0 | 0 | 0 | 0 | 317 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 63 | 74 | 20 | 11 | 2 | 0 | 0 | 0 | 172 |
| 8:00 | 0 | 0 | 0 | 3 | 5 | 35 | 61 | 16 | 3 | 1 | 0 | 0 | 0 | 124 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 60 | 55 | 14 | 1 | 2 | 0 | 0 | 0 | 136 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 20 | 47 | 12 | 3 | 1 | 0 | 0 | 0 | 89 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 18 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 49 |
| Total | 18 | 4 | 12 | 29 | 384 | 2651 | 2901 | 729 | 107 | 21 | 1 | 1 | 1 | 6859 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 5 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 2 | 2 | 2 | 0 | 0 | 1 | 19 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 10 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 22 | 18 | 4 | 4 | 1 | 0 | 0 | 0 | 49 |
| 6:00 | 0 | 0 | 0 | 0 | 18 | 43 | 44 | 10 | 1 | 1 | 0 | 0 | 0 | 117 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 44 | 75 | 25 | 2 | 2 | 0 | 0 | 0 | 150 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 62 | 69 | 26 | 5 | 0 | 0 | 0 | 0 | 167 |
| 9:00 | 0 | 0 | 0 | 1 | 7 | 92 | 116 | 35 | 6 | 0 | 1 | 0 | 0 | 258 |
| 10:00 | 0 | 0 | 0 | 6 | 11 | 119 | 119 | 42 | 10 | 0 | 1 | 0 | 0 | 308 |
| 11:00 | 2 | 0 | 0 | 2 | 15 | 143 | 170 | 43 | 9 | 1 | 0 | 0 | 0 | 385 |
| 12:00 PM | 1 | 0 | 0 | 0 | 23 | 155 | 160 | 23 | 7 | 2 | 2 | 0 | 0 | 373 |
| 1:00 | 0 | 0 | 2 | 5 | 16 | 122 | 145 | 36 | 6 | 0 | 0 | 0 | 0 | 332 |
| 2:00 | 1 | 0 | 0 | 1 | 14 | 188 | 171 | 41 | 9 | 2 | 0 | 0 | 0 | 427 |
| 3:00 | 0 | 0 | 0 | 1 | 23 | 144 | 118 | 34 | 7 | 1 | 0 | 0 | 0 | 328 |
| 4:00 | 0 | 0 | 1 | 0 | 18 | 123 | 134 | 31 | 3 | 1 | 0 | 0 | 0 | 311 |
| 5:00 | 0 | 0 | 0 | 0 | 10 | 88 | 97 | 16 | 10 | 1 | 1 | 0 | 0 | 223 |
| 6:00 | 0 | 0 | 0 | 1 | 6 | 63 | 108 | 31 | 4 | 1 | 0 | 0 | 0 | 214 |
| 7:00 | 0 | 0 | 0 | 1 | 3 | 34 | 45 | 18 | 3 | 1 | 0 | 0 | 0 | 105 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 36 | 50 | 13 | 1 | 0 | 0 | 0 | 0 | 104 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 23 | 39 | 17 | 3 | 1 | 0 | 0 | 0 | 89 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 17 | 18 | 3 | 4 | 1 | 0 | 0 | 0 | 50 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 7 | 15 | 4 | 1 | 0 | 1 | 0 | 0 | 28 |
| Total | 4 | 0 | 3 | 18 | 193 | 1542 | 1733 | 462 | 102 | 19 | 6 | 0 | 1 | 4083 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 30 | 29 | 5 | 3 | 1 | 0 | 0 | 0 | 72 |
| 6:00 | 0 | 1 | 0 | 10 | 23 | 65 | 36 | 11 | 3 | 0 | 0 | 0 | 0 | 149 |
| 7:00 | 0 | 0 | 0 | 0 | 11 | 87 | 93 | 21 | 7 | 1 | 0 | 0 | 0 | 220 |
| 8:00 | 1 | 0 | 1 | 1 | 20 | 146 | 138 | 23 | 2 | 1 | 0 | 0 | 0 | 333 |
| 9:00 | 3 | 0 | 1 | 0 | 12 | 156 | 191 | 44 | 8 | 2 | 0 | 0 | 0 | 417 |
| 10:00 | 10 | 0 | 0 | 2 | 23 | 194 | 179 | 51 | 15 | 1 | 0 | 0 | 0 | 475 |
| 11:00 | 0 | 0 | 0 | 3 | 39 | 223 | 213 | 42 | 5 | 0 | 0 | 0 | 0 | 525 |
| 12:00 PM | 1 | 0 | 2 | 22 | 30 | 220 | 270 | 47 | 9 | 2 | 0 | 0 | 0 | 603 |
| 1:00 | 7 | 0 | 0 | 12 | 21 | 225 | 215 | 56 | 4 | 2 | 1 | 0 | 0 | 543 |
| 2:00 | 2 | 0 | 0 | 0 | 21 | 249 | 257 | 49 | 3 | 1 | 0 | 0 | 0 | 582 |
| 3:00 | 1 | 0 | 0 | 2 | 30 | 216 | 219 | 61 | 11 | 2 | 1 | 0 | 0 | 543 |
| 4:00 | 2 | 0 | 1 | 2 | 46 | 272 | 228 | 47 | 6 | 1 | 0 | 0 | 1 | 606 |
| 5:00 | 0 | 0 | 0 | 0 | 24 | 177 | 187 | 51 | 11 | 2 | 0 | 1 | 0 | 453 |
| 6:00 | 0 | 0 | 1 | 0 | 23 | 129 | 143 | 31 | 1 | 0 | 0 | 0 | 0 | 328 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 101 | 151 | 38 | 8 | 4 | 0 | 0 | 0 | 306 |
| 8:00 | 0 | 0 | 2 | 0 | 6 | 64 | 95 | 27 | 6 | 1 | 0 | 0 | 0 | 201 |
| 9:00 | 0 | 0 | 0 | 0 | 12 | 71 | 67 | 19 | 2 | 0 | 0 | 0 | 0 | 171 |
| 10:00 | 0 | 0 | 0 | 0 | 9 | 30 | 55 | 15 | 2 | 3 | 0 | 0 | 0 | 114 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 15 | 20 | 10 | 1 | 0 | 0 | 0 | 0 | 47 |
| Total | 27 | 1 | 8 | 57 | 359 | 2674 | 2799 | 650 | 108 | 25 | 2 | 1 | 1 | 6712 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 7 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 21 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | 13 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 1 | 0 | 2 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 3 | 11 | 2 | 0 | 1 | 1 | 0 | 0 | 19 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 19 | 28 | 8 | 4 | 0 | 0 | 0 | 0 | 62 |
| 6:00 | 0 | 0 | 0 | 1 | 3 | 53 | 26 | 10 | 2 | 0 | 0 | 0 | 0 | 95 |
| 7:00 | 0 | 0 | 0 | 0 | 13 | 54 | 93 | 32 | 5 | 0 | 0 | 1 | 0 | 198 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 91 | 131 | 43 | 6 | 2 | 0 | 0 | 0 | 283 |
| 9:00 | 1 | 3 | 11 | 21 | 49 | 159 | 118 | 43 | 3 | 1 | 0 | 1 | 0 | 410 |
| 10:00 | 0 | 1 | 0 | 0 | 31 | 218 | 207 | 25 | 4 | 0 | 0 | 0 | 0 | 486 |
| 11:00 | 1 | 0 | 1 | 4 | 28 | 205 | 176 | 56 | 14 | 0 | 1 | 0 | 1 | 487 |
| 12:00 PM | 4 | 0 | 3 | 6 | 31 | 199 | 203 | 67 | 8 | 2 | 1 | 0 | 0 | 524 |
| 1:00 | 0 | 0 | 2 | 0 | 42 | 186 | 185 | 68 | 8 | 0 | 0 | 0 | 0 | 491 |
| 2:00 | 1 | 0 | 0 | 3 | 38 | 226 | 197 | 56 | 7 | 2 | 1 | 0 | 0 | 531 |
| 3:00 | 0 | 0 | 2 | 4 | 29 | 221 | 187 | 47 | 3 | 1 | 0 | 0 | 0 | 494 |
| 4:00 | 0 | 0 | 1 | 2 | 25 | 175 | 228 | 56 | 6 | 1 | 0 | 0 | 0 | 494 |
| 5:00 | 0 | 0 | 0 | 0 | 31 | 171 | 189 | 45 | 6 | 1 | 0 | 0 | 0 | 443 |
| 6:00 | 1 | 0 | 0 | 0 | 7 | 106 | 154 | 36 | 4 | 0 | 0 | 0 | 0 | 308 |
| 7:00 | 0 | 0 | 0 | 1 | 4 | 51 | 80 | 17 | 4 | 1 | 1 | 0 | 0 | 159 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 41 | 74 | 27 | 1 | 0 | 0 | 0 | 0 | 150 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 60 | 54 | 21 | 4 | 1 | 1 | 0 | 0 | 146 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 34 | 30 | 14 | 1 | 0 | 0 | 0 | 0 | 82 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 8 | 12 | 5 | 0 | 0 | 0 | 1 | 0 | 29 |
| Total | 8 | 4 | 20 | 42 | 365 | 2291 | 2398 | 688 | 95 | 16 | 6 | 3 | 1 | 5937 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 16 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 3 | 7 | 1 | 3 | 0 | 0 | 0 | 0 | 16 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 24 | 20 | 7 | 2 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 0 | 1 | 3 | 26 | 32 | 12 | 1 | 0 | 0 | 0 | 0 | 75 |
| 7:00 | 0 | 0 | 0 | 1 | 0 | 46 | 72 | 29 | 10 | 0 | 0 | 0 | 1 | 159 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 41 | 128 | 42 | 8 | 0 | 0 | 0 | 0 | 224 |
| 9:00 | 1 | 0 | 0 | 0 | 12 | 97 | 165 | 36 | 11 | 1 | 1 | 0 | 0 | 324 |
| 10:00 | 2 | 0 | 0 | 0 | 13 | 159 | 178 | 34 | 4 | 1 | 0 | 1 | 0 | 392 |
| 11:00 | 5 | 2 | 3 | 1 | 18 | 143 | 218 | 46 | 2 | 3 | 0 | 0 | 0 | 441 |
| 12:00 PM | 1 | 0 | 0 | 1 | 23 | 160 | 194 | 48 | 15 | 0 | 0 | 0 | 0 | 442 |
| 1:00 | 2 | 0 | 1 | 3 | 10 | 160 | 177 | 43 | 11 | 1 | 0 | 0 | 0 | 408 |
| 2:00 | 1 | 0 | 0 | 1 | 23 | 155 | 182 | 41 | 10 | 3 | 0 | 0 | 0 | 416 |
| 3:00 | 1 | 0 | 0 | 0 | 9 | 172 | 181 | 33 | 9 | 1 | 0 | 0 | 1 | 407 |
| 4:00 | 1 | 0 | 0 | 0 | 22 | 146 | 160 | 34 | 5 | 0 | 0 | 0 | 0 | 368 |
| 5:00 | 0 | 4 | 2 | 2 | 21 | 150 | 154 | 34 | 9 | 1 | 0 | 0 | 0 | 377 |
| 6:00 | 0 | 0 | 0 | 3 | 19 | 58 | 101 | 13 | 2 | 0 | 0 | 1 | 1 | 198 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 38 | 46 | 18 | 7 | 0 | 0 | 0 | 0 | 115 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 29 | 42 | 17 | 4 | 0 | 0 | 0 | 0 | 93 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 21 | 37 | 6 | 1 | 0 | 1 | 0 | 0 | 72 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 14 | 18 | 6 | 1 | 1 | 0 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 6 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 14 | 6 | 6 | 14 | 198 | 1658 | 2140 | 508 | 117 | 13 | 2 | 2 | 3 | 4681 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 28 | 32 | 8 | 2 | 0 | 0 | 0 | 0 | 71 |
| 6:00 | 0 | 0 | 0 | 0 | 12 | 126 | 50 | 10 | 2 | 0 | 0 | 0 | 0 | 200 |
| 7:00 | 0 | 0 | 0 | 3 | 22 | 152 | 146 | 27 | 2 | 0 | 0 | 0 | 0 | 352 |
| 8:00 | 1 | 0 | 0 | 1 | 43 | 177 | 168 | 18 | 2 | 0 | 0 | 0 | 0 | 410 |
| 9:00 | 2 | 0 | 0 | 0 | 39 | 188 | 184 | 27 | 3 | 0 | 0 | 0 | 0 | 443 |
| 10:00 | 0 | 0 | 0 | 4 | 65 | 223 | 134 | 31 | 4 | 0 | 1 | 0 | 0 | 462 |
| 11:00 | 3 | 0 | 1 | 4 | 28 | 205 | 186 | 39 | 3 | 1 | 0 | 0 | 0 | 470 |
| 12:00 PM | 0 | 0 | 1 | 1 | 33 | 215 | 193 | 36 | 1 | 2 | 0 | 0 | 0 | 482 |
| 1:00 | 7 | 0 | 0 | 3 | 35 | 247 | 187 | 28 | 2 | 3 | 0 | 0 | 0 | 512 |
| 2:00 | 0 | 0 | 1 | 0 | 26 | 252 | 200 | 40 | 9 | 0 | 0 | 0 | 0 | 528 |
| 3:00 | 1 | 0 | 0 | 2 | 34 | 214 | 208 | 48 | 5 | 1 | 0 | 0 | 1 | 514 |
| 4:00 | 3 | 0 | 0 | 0 | 12 | 189 | 170 | 51 | 1 | 1 | 1 | 0 | 0 | 428 |
| 5:00 | 0 | 0 | 0 | 0 | 19 | 135 | 152 | 22 | 5 | 0 | 0 | 0 | 0 | 333 |
| 6:00 | 0 | 0 | 0 | 1 | 10 | 83 | 101 | 17 | 3 | 1 | 0 | 0 | 0 | 216 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 32 | 54 | 18 | 6 | 1 | 0 | 0 | 0 | 114 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 23 | 46 | 23 | 0 | 1 | 0 | 0 | 0 | 94 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 27 | 29 | 16 | 3 | 1 | 0 | 0 | 0 | 80 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 13 | 19 | 2 | 2 | 0 | 0 | 0 | 0 | 39 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 16 |
| Total | 17 | 0 | 3 | 19 | 390 | 2548 | 2274 | 465 | 57 | 13 | 2 | 0 | 1 | 5789 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 0 | 0 | 0 | 1 | 12 | 35 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 1 | 30 | 124 | 51 | 7 | 2 | 0 | 0 | 0 | 0 | 215 |
| 7:00 | 0 | 0 | 0 | 0 | 29 | 189 | 123 | 20 | 1 | 0 | 0 | 0 | 0 | 362 |
| 8:00 | 1 | 3 | 5 | 9 | 70 | 214 | 132 | 20 | 4 | 0 | 0 | 0 | 0 | 458 |
| 9:00 | 1 | 1 | 2 | 5 | 39 | 198 | 182 | 31 | 4 | 0 | 0 | 0 | 0 | 463 |
| 10:00 | 7 | 0 | 0 | 5 | 21 | 257 | 189 | 29 | 2 | 0 | 0 | 0 | 0 | 510 |
| 11:00 | 6 | 0 | 0 | 5 | 35 | 229 | 202 | 49 | 4 | 3 | 0 | 0 | 1 | 534 |
| 12:00 PM | 2 | 0 | 0 | 2 | 13 | 180 | 235 | 67 | 11 | 2 | 0 | 0 | 0 | 512 |
| 1:00 | 0 | 0 | 0 | 6 | 21 | 174 | 261 | 51 | 8 | 1 | 0 | 0 | 0 | 522 |
| 2:00 | 3 | 0 | 2 | 1 | 15 | 182 | 218 | 69 | 13 | 1 | 0 | 0 | 0 | 504 |
| 3:00 | 0 | 0 | 0 | 8 | 21 | 172 | 220 | 78 | 4 | 0 | 0 | 0 | 0 | 503 |
| 4:00 | 2 | 0 | 0 | 0 | 2 | 121 | 218 | 78 | 10 | 4 | 1 | 0 | 0 | 436 |
| 5:00 | 2 | 0 | 0 | 2 | 17 | 95 | 177 | 52 | 6 | 1 | 0 | 0 | 0 | 352 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 65 | 132 | 35 | 7 | 4 | 1 | 0 | 0 | 245 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 39 | 43 | 24 | 2 | 0 | 0 | 0 | 0 | 111 |
| 8:00 | 0 | 0 | 0 | 1 | 3 | 30 | 47 | 19 | 5 | 3 | 0 | 0 | 0 | 108 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 23 | 38 | 15 | 2 | 0 | 0 | 0 | 0 | 84 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 9 | 17 | 10 | 1 | 1 | 0 | 0 | 0 | 39 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 19 |
| Total | 24 | 4 | 9 | 46 | 341 | 2351 | 2534 | 674 | 87 | 21 | 2 | 0 | 1 | 6094 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 14 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 26 | 37 | 8 | 1 | 0 | 0 | 0 | 0 | 76 |
| 6:00 | 0 | 0 | 0 | 4 | 15 | 121 | 61 | 7 | 1 | 0 | 0 | 0 | 0 | 209 |
| 7:00 | 0 | 0 | 0 | 1 | 45 | 156 | 136 | 40 | 5 | 0 | 0 | 0 | 0 | 383 |
| 8:00 | 0 | 0 | 0 | 2 | 18 | 197 | 163 | 36 | 9 | 0 | 0 | 0 | 0 | 425 |
| 9:00 | 4 | 0 | 0 | 0 | 22 | 207 | 200 | 61 | 8 | 0 | 0 | 0 | 0 | 502 |
| 10:00 | 1 | 0 | 0 | 0 | 12 | 170 | 217 | 58 | 5 | 2 | 0 | 0 | 0 | 465 |
| 11:00 | 1 | 0 | 1 | 2 | 24 | 218 | 230 | 40 | 8 | 2 | 0 | 0 | 0 | 526 |
| 12:00 PM | 1 | 0 | 0 | 1 | 21 | 180 | 203 | 47 | 12 | 2 | 0 | 0 | 0 | 467 |
| 1:00 | 1 | 0 | 1 | 1 | 20 | 195 | 242 | 70 | 8 | 1 | 0 | 0 | 0 | 539 |
| 2:00 | 3 | 0 | 0 | 0 | 24 | 211 | 246 | 52 | 8 | 2 | 0 | 0 | 0 | 546 |
| 3:00 | 1 | 0 | 0 | 1 | 39 | 168 | 247 | 52 | 7 | 0 | 0 | 0 | 0 | 515 |
| 4:00 | 1 | 0 | 0 | 0 | 17 | 141 | 210 | 65 | 5 | 1 | 1 | 1 | 1 | 443 |
| 5:00 | 0 | 0 | 0 | 0 | 6 | 146 | 173 | 57 | 6 | 0 | 0 | 0 | 0 | 388 |
| 6:00 | 0 | 0 | 0 | 1 | 13 | 80 | 104 | 29 | 10 | 0 | 0 | 0 | 0 | 237 |
| 7:00 | 0 | 0 | 0 | 1 | 9 | 59 | 71 | 25 | 12 | 1 | 0 | 0 | 0 | 178 |
| 8:00 | 0 | 0 | 1 | 0 | 1 | 40 | 61 | 16 | 4 | 1 | 0 | 0 | 0 | 124 |
| 9:00 | 0 | 0 | 1 | 0 | 4 | 55 | 40 | 16 | 2 | 2 | 0 | 0 | 0 | 120 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 21 | 32 | 10 | 1 | 0 | 1 | 0 | 0 | 71 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 4 | 2 | 0 | 0 | 0 | 0 | 22 |
| Total | 13 | 0 | 4 | 14 | 302 | 2412 | 2694 | 701 | 116 | 14 | 2 | 1 | 1 | 6274 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 40 | 28 | 3 | 1 | 0 | 0 | 0 | 0 | 72 |
| 6:00 | 0 | 0 | 0 | 1 | 26 | 112 | 74 | 8 | 1 | 0 | 0 | 0 | 0 | 222 |
| 7:00 | 1 | 0 | 0 | 2 | 39 | 167 | 105 | 15 | 1 | 0 | 0 | 0 | 0 | 330 |
| 8:00 | 1 | 0 | 0 | 1 | 62 | 203 | 123 | 39 | 4 | 0 | 0 | 0 | 0 | 433 |
| 9:00 | 2 | 0 | 0 | 3 | 28 | 203 | 175 | 45 | 4 | 0 | 0 | 0 | 0 | 460 |
| 10:00 | 0 | 0 | 0 | 3 | 22 | 213 | 170 | 52 | 9 | 1 | 0 | 0 | 0 | 470 |
| 11:00 | 1 | 1 | 4 | 2 | 37 | 227 | 165 | 41 | 11 | 0 | 0 | 0 | 0 | 489 |
| 12:00 PM | 4 | 1 | 0 | 1 | 39 | 207 | 198 | 51 | 8 | 0 | 0 | 0 | 0 | 509 |
| 1:00 | 1 | 13 | 6 | 0 | 19 | 199 | 199 | 53 | 4 | 0 | 0 | 0 | 0 | 494 |
| 2:00 | 2 | 0 | 0 | 1 | 25 | 218 | 240 | 55 | 5 | 1 | 0 | 0 | 0 | 547 |
| 3:00 | 1 | 0 | 0 | 1 | 26 | 200 | 232 | 62 | 5 | 2 | 0 | 0 | 0 | 529 |
| 4:00 | 0 | 0 | 0 | 1 | 17 | 144 | 188 | 63 | 9 | 2 | 0 | 0 | 0 | 424 |
| 5:00 | 0 | 0 | 0 | 1 | 18 | 143 | 180 | 62 | 4 | 1 | 1 | 0 | 0 | 410 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 81 | 121 | 35 | 0 | 0 | 0 | 0 | 0 | 246 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 57 | 85 | 10 | 4 | 1 | 0 | 0 | 0 | 159 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 54 | 52 | 16 | 1 | 1 | 0 | 0 | 0 | 134 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 38 | 40 | 11 | 2 | 1 | 1 | 0 | 0 | 97 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 13 | 18 | 13 | 3 | 0 | 0 | 0 | 0 | 51 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 10 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 32 |
| Total | 13 | 15 | 10 | 17 | 391 | 2536 | 2414 | 646 | 76 | 11 | 2 | 0 | 0 | 6131 |

City of Sanibel
Location: Sanibel Captiva Road
West of Buckthorn Lane

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/5/2025

Direction: Combined

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 29 | 37 | 5 | 1 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 0 | 29 | 115 | 64 | 8 | 1 | 1 | 0 | 0 | 0 | 218 |
| 7:00 | 0 | 0 | 0 | 1 | 31 | 151 | 121 | 31 | 2 | 1 | 0 | 0 | 0 | 338 |
| 8:00 | 4 | 0 | 0 | 0 | 38 | 176 | 194 | 54 | 6 | 1 | 0 | 0 | 0 | 473 |
| 9:00 | 6 | 0 | 0 | 3 | 22 | 211 | 227 | 47 | 4 | 1 | 0 | 0 | 0 | 521 |
| 10:00 | 0 | 0 | 1 | 0 | 32 | 198 | 192 | 42 | 2 | 1 | 0 | 0 | 0 | 468 |
| 11:00 | 0 | 1 | 1 | 4 | 36 | 227 | 202 | 61 | 9 | 1 | 0 | 0 | 1 | 543 |
| 12:00 PM | 0 | 0 | 0 | 1 | 24 | 200 | 225 | 70 | 6 | 2 | 0 | 0 | 0 | 528 |
| 1:00 | 2 | 0 | 0 | 0 | 29 | 178 | 227 | 57 | 4 | 0 | 0 | 0 | 0 | 497 |
| 2:00 | 0 | 1 | 1 | 0 | 21 | 210 | 236 | 53 | 9 | 1 | 1 | 0 | 0 | 533 |
| 3:00 | 1 | 0 | 0 | 0 | 19 | 163 | 234 | 72 | 16 | 0 | 0 | 0 | 0 | 505 |
| 4:00 | 0 | 0 | 0 | 0 | 4 | 120 | 244 | 76 | 6 | 1 | 0 | 0 | 0 | 451 |
| 5:00 | 1 | 0 | 0 | 0 | 12 | 87 | 179 | 64 | 8 | 0 | 0 | 0 | 0 | 351 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 85 | 111 | 45 | 8 | 1 | 0 | 1 | 0 | 257 |
| 7:00 | 5 | 4 | 7 | 7 | 15 | 33 | 67 | 16 | 7 | 0 | 1 | 1 | 0 | 163 |
| 8:00 | 64 | 60 | 27 | 10 | 15 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 183 |
| 9:00 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 83 | 67 | 38 | 28 | 338 | 2200 | 2580 | 705 | 92 | 11 | 2 | 2 | 1 | 6147 |
| Grand Total | 340 | 109 | 166 | 554 | 5720 | 40676 | 43036 | 10604 | 1565 | 263 | 59 | 20 | 17 | 103129 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 36 | 39 | 43 | 46 |
| | Mean Speed (Average) | 40.9 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 83712 | | | |
| | Percent in Pace | 81.0% | | | |
| | Number > 35 MPH | 96240 | | | |
| | Percent > 35 MPH | 93.3% | | | |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 1 | 0 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 0 | 0 | 1 | 13 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 8:00 | 0 | 2 | 4 | 21 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 9:00 | 0 | 3 | 7 | 27 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:00 | 2 | 4 | 25 | 24 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 11:00 | 1 | 2 | 4 | 29 | 38 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| 12:00 PM | 2 | 0 | 3 | 16 | 24 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 1:00 | 1 | 0 | 1 | 21 | 33 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 2:00 | 2 | 1 | 1 | 16 | 16 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 3:00 | 0 | 1 | 2 | 6 | 22 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 4:00 | 1 | 1 | 1 | 26 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 5:00 | 0 | 1 | 6 | 10 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 0 | 1 | 6 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 11 | 16 | 58 | 220 | 245 | 70 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 625 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 1 | 2 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 0 | 1 | 1 | 11 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 8:00 | 0 | 5 | 4 | 24 | 26 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 9:00 | 1 | 3 | 5 | 19 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 10:00 | 4 | 2 | 6 | 21 | 11 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 11:00 | 2 | 2 | 8 | 33 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 12:00 PM | 1 | 0 | 2 | 22 | 20 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 1:00 | 1 | 3 | 3 | 16 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 2:00 | 0 | 0 | 3 | 12 | 15 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| 3:00 | 0 | 0 | 2 | 14 | 22 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 4:00 | 1 | 0 | 4 | 18 | 29 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 5:00 | 1 | 0 | 2 | 10 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 6:00 | 0 | 0 | 0 | 6 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 9:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 11 | 17 | 42 | 212 | 253 | 62 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 605 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 0 | 2 | 3 | 10 | 24 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 8:00 | 0 | 1 | 2 | 17 | 22 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 9:00 | 0 | 1 | 6 | 17 | 33 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 10:00 | 1 | 2 | 4 | 18 | 35 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 85 |
| 11:00 | 3 | 2 | 5 | 27 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 12:00 PM | 1 | 0 | 0 | 27 | 27 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 1:00 | 2 | 0 | 5 | 10 | 33 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 2:00 | 0 | 2 | 10 | 16 | 17 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 54 |
| 3:00 | 1 | 1 | 7 | 13 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 4:00 | 0 | 2 | 2 | 8 | 18 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 5:00 | 0 | 0 | 2 | 9 | 18 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 6:00 | 0 | 0 | 0 | 6 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 9:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 8 | 14 | 50 | 184 | 291 | 84 | 15 | 1 | 1 | 0 | 0 | 0 | 0 | 648 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 3 | 2 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 8:00 | 4 | 6 | 4 | 12 | 20 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 9:00 | 1 | 1 | 1 | 13 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 10:00 | 0 | 1 | 5 | 23 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 2 | 3 | 6 | 12 | 24 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 12:00 PM | 2 | 1 | 3 | 11 | 20 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 1:00 | 1 | 0 | 6 | 14 | 20 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 2:00 | 1 | 0 | 1 | 11 | 19 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 3:00 | 0 | 1 | 3 | 12 | 16 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 4:00 | 2 | 0 | 6 | 31 | 21 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 5:00 | 0 | 0 | 2 | 17 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 0 | 0 | 0 | 3 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 7:00 | 0 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 0 | 0 | 2 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 13 | 16 | 39 | 167 | 225 | 66 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 534 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 7:00 | 0 | 2 | 3 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:00 | 4 | 0 | 1 | 13 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 9:00 | 1 | 1 | 6 | 35 | 26 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 10:00 | 2 | 1 | 2 | 20 | 20 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 0 | 3 | 5 | 16 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 12:00 PM | 1 | 0 | 5 | 10 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 1:00 | 0 | 2 | 4 | 12 | 17 | 12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 48 |
| 2:00 | 0 | 0 | 5 | 11 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 3:00 | 1 | 0 | 5 | 10 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 4:00 | 1 | 1 | 3 | 15 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 5:00 | 0 | 0 | 3 | 17 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 1 | 0 | 5 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 10 | 11 | 43 | 170 | 179 | 61 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 478 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 3 | 2 | 2 | 13 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 8:00 | 0 | 2 | 1 | 33 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 9:00 | 1 | 0 | 3 | 16 | 30 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:00 | 1 | 2 | 2 | 26 | 37 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| 11:00 | 1 | 2 | 4 | 20 | 32 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 12:00 PM | 1 | 1 | 4 | 22 | 24 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 1:00 | 2 | 2 | 9 | 21 | 25 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 2:00 | 4 | 1 | 4 | 11 | 27 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 3:00 | 2 | 5 | 2 | 11 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 4:00 | 0 | 0 | 2 | 11 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 5:00 | 0 | 0 | 3 | 16 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 0 | 0 | 0 | 5 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 0 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 15 | 18 | 37 | 212 | 292 | 71 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 651 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 0 | 1 | 0 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 1 | 1 | 0 | 11 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:00 | 1 | 1 | 3 | 33 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 5 | 0 | 3 | 15 | 28 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 10:00 | 0 | 1 | 0 | 23 | 37 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| 11:00 | 3 | 1 | 3 | 24 | 36 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 12:00 PM | 2 | 1 | 1 | 16 | 30 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 1:00 | 0 | 0 | 2 | 12 | 23 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 2:00 | 1 | 1 | 6 | 8 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 3:00 | 0 | 1 | 2 | 16 | 22 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 4:00 | 2 | 0 | 4 | 19 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 5:00 | 1 | 0 | 3 | 23 | 17 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 6:00 | 0 | 0 | 0 | 9 | 15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 18 | 8 | 28 | 212 | 299 | 86 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 666 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 3 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 0 | 1 | 1 | 8 | 18 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 8:00 | 4 | 2 | 0 | 15 | 23 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 9:00 | 0 | 3 | 4 | 24 | 25 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 10:00 | 7 | 4 | 4 | 20 | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 11:00 | 5 | 5 | 14 | 33 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| 12:00 PM | 4 | 1 | 6 | 24 | 28 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 1:00 | 4 | 1 | 3 | 11 | 31 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 2:00 | 1 | 0 | 4 | 12 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 3:00 | 2 | 1 | 2 | 12 | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 4:00 | 3 | 1 | 6 | 14 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 5:00 | 1 | 1 | 4 | 21 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 6:00 | 0 | 0 | 1 | 7 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 0 | 0 | 0 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 31 | 20 | 49 | 206 | 258 | 68 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 645 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 8:00 | 3 | 5 | 0 | 5 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 9:00 | 2 | 1 | 5 | 12 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 10:00 | 4 | 3 | 4 | 16 | 19 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 2 | 0 | 5 | 8 | 20 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 12:00 PM | 1 | 0 | 5 | 13 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 1:00 | 1 | 1 | 3 | 14 | 16 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 2:00 | 0 | 1 | 1 | 12 | 22 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 3:00 | 0 | 1 | 4 | 9 | 9 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 4:00 | 1 | 0 | 1 | 7 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 5:00 | 0 | 0 | 2 | 8 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 6:00 | 0 | 0 | 0 | 4 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 8:00 | 0 | 0 | 1 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 14 | 12 | 32 | 109 | 167 | 41 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 385 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 1 | 0 | 3 | 8 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 0 | 0 | 2 | 13 | 17 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 10:00 | 1 | 0 | 4 | 11 | 28 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 0 | 1 | 2 | 22 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 12:00 PM | 1 | 0 | 2 | 22 | 25 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 1:00 | 1 | 1 | 4 | 18 | 16 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 2:00 | 2 | 2 | 4 | 20 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 3:00 | 5 | 1 | 1 | 12 | 17 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 44 |
| 4:00 | 3 | 0 | 6 | 16 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 5:00 | 0 | 0 | 3 | 13 | 18 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 6:00 | 0 | 0 | 2 | 7 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 0 | 0 | 2 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 14 | 5 | 34 | 167 | 232 | 78 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 539 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 1 | 1 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 7:00 | 0 | 1 | 0 | 3 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 8:00 | 2 | 0 | 1 | 8 | 22 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 9:00 | 2 | 1 | 4 | 12 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 10:00 | 3 | 3 | 3 | 26 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 11:00 | 4 | 3 | 4 | 15 | 18 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 12:00 PM | 0 | 1 | 3 | 17 | 27 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 1:00 | 0 | 1 | 2 | 22 | 26 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 2:00 | 0 | 1 | 1 | 13 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 3:00 | 0 | 0 | 1 | 16 | 13 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 4:00 | 1 | 0 | 5 | 36 | 29 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 5:00 | 1 | 1 | 1 | 12 | 15 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 6:00 | 0 | 0 | 1 | 2 | 12 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 1 | 0 | 2 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 14 | 14 | 26 | 186 | 249 | 77 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 575 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7:00 | 0 | 1 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 1 | 2 | 0 | 5 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 9:00 | 3 | 1 | 5 | 15 | 32 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 10:00 | 1 | 0 | 1 | 12 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 11:00 | 1 | 1 | 4 | 12 | 19 | 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 44 |
| 12:00 PM | 2 | 0 | 3 | 20 | 23 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 1:00 | 1 | 1 | 8 | 14 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 2:00 | 0 | 0 | 4 | 17 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 3:00 | 1 | 1 | 5 | 12 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 4:00 | 0 | 1 | 4 | 15 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 5:00 | 1 | 0 | 2 | 8 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 6:00 | 0 | 0 | 0 | 2 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 0 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 12 | 8 | 39 | 143 | 191 | 42 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 446 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 2 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 0 | 0 | 2 | 6 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 8:00 | 1 | 1 | 4 | 16 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 9:00 | 1 | 0 | 4 | 24 | 25 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 10:00 | 3 | 1 | 2 | 28 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 11:00 | 1 | 1 | 5 | 20 | 25 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 12:00 PM | 2 | 1 | 4 | 15 | 30 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 1:00 | 0 | 1 | 0 | 18 | 23 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 54 |
| 2:00 | 1 | 0 | 4 | 10 | 18 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 3:00 | 0 | 1 | 2 | 10 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 4:00 | 0 | 1 | 2 | 19 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 5:00 | 0 | 0 | 2 | 8 | 18 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 6:00 | 0 | 0 | 0 | 9 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 10 | 7 | 33 | 191 | 268 | 84 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 601 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 0 | 0 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 7:00 | 0 | 1 | 3 | 6 | 22 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 8:00 | 0 | 0 | 2 | 21 | 34 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 9:00 | 1 | 1 | 4 | 20 | 15 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 10:00 | 1 | 3 | 10 | 12 | 27 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 1 | 1 | 3 | 26 | 24 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 12:00 PM | 1 | 0 | 0 | 16 | 25 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 1:00 | 0 | 1 | 1 | 13 | 18 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 2:00 | 0 | 0 | 5 | 10 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 3:00 | 0 | 1 | 3 | 10 | 26 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 4:00 | 0 | 1 | 0 | 17 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 5:00 | 0 | 1 | 0 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 6:00 | 0 | 0 | 0 | 4 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 0 | 1 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 5 | 13 | 31 | 178 | 264 | 71 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 574 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 1 | 0 | 0 | 2 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 0 | 1 | 2 | 8 | 22 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 8:00 | 1 | 0 | 3 | 20 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 9:00 | 1 | 0 | 5 | 32 | 33 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 10:00 | 2 | 1 | 0 | 27 | 24 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 11:00 | 0 | 4 | 5 | 23 | 38 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 12:00 PM | 0 | 0 | 5 | 21 | 28 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 1:00 | 1 | 0 | 7 | 20 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 2:00 | 1 | 1 | 5 | 14 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 3:00 | 0 | 0 | 8 | 10 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 4:00 | 0 | 1 | 2 | 17 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 5:00 | 0 | 1 | 3 | 18 | 22 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 6:00 | 1 | 0 | 1 | 3 | 12 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 9:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 8 | 9 | 48 | 221 | 271 | 64 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 631 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 0 | 0 | 2 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 0 | 5 | 6 | 8 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 8:00 | 1 | 6 | 6 | 18 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 9:00 | 1 | 1 | 4 | 19 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:00 | 1 | 3 | 1 | 27 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 11:00 | 2 | 4 | 6 | 28 | 24 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 12:00 PM | 1 | 2 | 3 | 24 | 37 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 76 |
| 1:00 | 1 | 0 | 3 | 14 | 31 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 2:00 | 1 | 2 | 3 | 19 | 23 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 3:00 | 0 | 0 | 2 | 12 | 7 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 4:00 | 2 | 1 | 1 | 16 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 5:00 | 1 | 2 | 1 | 19 | 22 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 6:00 | 0 | 0 | 3 | 11 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 0 | 1 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 11 | 26 | 41 | 223 | 277 | 66 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 649 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 1 | 0 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 1 | 0 | 7 | 13 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 8:00 | 3 | 9 | 18 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 9:00 | 0 | 1 | 10 | 28 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 10:00 | 3 | 2 | 8 | 18 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 11:00 | 1 | 8 | 8 | 32 | 30 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 |
| 12:00 PM | 2 | 1 | 4 | 19 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 1:00 | 5 | 7 | 10 | 21 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 2:00 | 0 | 4 | 11 | 15 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 3:00 | 1 | 0 | 14 | 14 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 4:00 | 3 | 1 | 2 | 12 | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 5:00 | 1 | 2 | 5 | 14 | 19 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 1 | 2 | 10 | 22 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 7:00 | 0 | 1 | 3 | 5 | 9 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 8:00 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 21 | 37 | 105 | 233 | 194 | 46 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 643 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 1 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 7:00 | 1 | 0 | 0 | 7 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 8:00 | 1 | 5 | 1 | 7 | 12 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 9:00 | 3 | 5 | 6 | 11 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 10:00 | 1 | 1 | 4 | 16 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 3 | 1 | 1 | 24 | 21 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 12:00 PM | 6 | 4 | 5 | 21 | 18 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 1:00 | 2 | 2 | 6 | 14 | 21 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 2:00 | 1 | 3 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 3:00 | 0 | 1 | 7 | 10 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 4:00 | 1 | 2 | 4 | 29 | 35 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| 5:00 | 0 | 2 | 3 | 14 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 1 | 0 | 1 | 4 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 20 | 27 | 53 | 179 | 206 | 57 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 547 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 0 | 2 | 3 | 10 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 9:00 | 3 | 1 | 1 | 17 | 27 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:00 | 0 | 0 | 4 | 12 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 11:00 | 1 | 1 | 6 | 10 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 12:00 PM | 4 | 0 | 4 | 19 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 1:00 | 1 | 0 | 4 | 13 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 2:00 | 1 | 1 | 1 | 13 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 3:00 | 1 | 0 | 4 | 16 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 4:00 | 0 | 0 | 3 | 5 | 16 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 5:00 | 0 | 1 | 2 | 16 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 6:00 | 0 | 0 | 2 | 5 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 0 | 0 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 11 | 7 | 35 | 144 | 177 | 38 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 414 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 0 | 1 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 0 | 0 | 2 | 18 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 8:00 | 1 | 0 | 3 | 29 | 26 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 9:00 | 0 | 0 | 4 | 13 | 31 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 10:00 | 2 | 0 | 2 | 21 | 33 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 11:00 | 2 | 0 | 5 | 23 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 12:00 PM | 1 | 1 | 2 | 14 | 21 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 1:00 | 3 | 1 | 1 | 26 | 15 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 2:00 | 0 | 0 | 5 | 15 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 3:00 | 1 | 0 | 2 | 17 | 18 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 45 |
| 4:00 | 0 | 0 | 0 | 12 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 5:00 | 0 | 1 | 4 | 8 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 6:00 | 0 | 0 | 2 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 0 | 0 | 0 | 1 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 8:00 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 10 | 4 | 33 | 207 | 240 | 72 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 573 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Northbound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 1 | 1 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:00 | 1 | 1 | 5 | 9 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 8:00 | 0 | 1 | 3 | 19 | 31 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 9:00 | 3 | 2 | 6 | 23 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 10:00 | 3 | 6 | 6 | 24 | 22 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| 11:00 | 2 | 1 | 3 | 39 | 18 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 12:00 PM | 0 | 1 | 5 | 18 | 30 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 1:00 | 1 | 4 | 4 | 15 | 19 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 2:00 | 2 | 1 | 5 | 31 | 22 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 3:00 | 4 | 0 | 3 | 14 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 4:00 | 0 | 0 | 2 | 13 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 5:00 | 0 | 0 | 4 | 11 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 6:00 | 0 | 1 | 1 | 7 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 0 | 0 | 1 | 6 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 8:00 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9:00 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 17 | 19 | 50 | 238 | 241 | 64 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Grand Total | 284 | 308 | 906 | 4002 | 5019 | 1368 | 161 | 13 | 3 | 1 | 0 | 0 | 0 | 12065 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 25 | 29 | 34 | 36 |

| | |
|---|---|
| Mean Speed (Average) | 30.4 |
| 10 MPH Pace Speed | 26-35 |
| Number in Pace | 9021 |
| Percent in Pace | 75.0% |
| Number > 30 MPH | 6565 |
| Percent > 30 MPH | 54.4% |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 1 | 1 | 7 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:00 | 0 | 1 | 4 | 9 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 2 | 1 | 7 | 13 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 10:00 | 1 | 4 | 5 | 27 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 11:00 | 0 | 3 | 8 | 22 | 33 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 12:00 PM | 2 | 1 | 3 | 10 | 30 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 1:00 | 0 | 2 | 6 | 23 | 44 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 2:00 | 1 | 2 | 3 | 20 | 27 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| 3:00 | 1 | 2 | 9 | 13 | 21 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 4:00 | 0 | 0 | 2 | 9 | 20 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 5:00 | 0 | 0 | 4 | 12 | 16 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 1 | 1 | 9 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 7:00 | 0 | 0 | 0 | 3 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 8:00 | 0 | 0 | 0 | 2 | 9 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 15 |
| 9:00 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 7 | 18 | 54 | 183 | 298 | 96 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 667 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 1 | 1 | 10 | 14 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 30 |
| 8:00 | 0 | 2 | 3 | 7 | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 9:00 | 1 | 1 | 1 | 10 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 10:00 | 3 | 1 | 2 | 19 | 38 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| 11:00 | 1 | 3 | 3 | 12 | 28 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 12:00 PM | 2 | 1 | 4 | 19 | 31 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 1:00 | 0 | 1 | 2 | 11 | 23 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 2:00 | 2 | 1 | 5 | 16 | 41 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 3:00 | 1 | 0 | 2 | 11 | 25 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 4:00 | 0 | 0 | 1 | 9 | 29 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 5:00 | 0 | 1 | 1 | 9 | 16 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 6:00 | 0 | 0 | 0 | 6 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 0 | 0 | 0 | 4 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 8:00 | 1 | 0 | 0 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 12 | 12 | 26 | 146 | 313 | 97 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 617 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 0 | 2 | 6 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 8:00 | 1 | 0 | 1 | 7 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 9:00 | 0 | 1 | 1 | 12 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 10:00 | 1 | 0 | 1 | 11 | 32 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 57 |
| 11:00 | 1 | 2 | 6 | 33 | 26 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 12:00 PM | 0 | 1 | 4 | 15 | 44 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 1:00 | 2 | 0 | 4 | 11 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 2:00 | 0 | 1 | 4 | 16 | 32 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 3:00 | 2 | 0 | 2 | 10 | 22 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 4:00 | 0 | 0 | 3 | 10 | 17 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 5:00 | 0 | 0 | 5 | 7 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 6:00 | 0 | 0 | 2 | 3 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 0 | 0 | 0 | 6 | 11 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 8:00 | 0 | 1 | 2 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 0 | 1 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 7 | 8 | 39 | 153 | 300 | 104 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 620 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 1 | 3 | 1 | 4 | 14 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 5 | 2 | 9 | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 10:00 | 4 | 2 | 1 | 18 | 17 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 11:00 | 0 | 2 | 0 | 13 | 39 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 12:00 PM | 3 | 3 | 4 | 8 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 1:00 | 2 | 2 | 3 | 12 | 13 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 2:00 | 2 | 0 | 2 | 15 | 15 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 3:00 | 0 | 1 | 2 | 10 | 12 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 35 |
| 4:00 | 0 | 1 | 3 | 14 | 26 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 5:00 | 0 | 1 | 5 | 16 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 6:00 | 0 | 0 | 0 | 5 | 17 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 1 | 0 | 8 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 8:00 | 0 | 0 | 1 | 2 | 10 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 9:00 | 0 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 10:00 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 13 | 21 | 24 | 140 | 239 | 81 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 530 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:00 | 0 | 0 | 1 | 5 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 9:00 | 0 | 2 | 4 | 7 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 10:00 | 0 | 2 | 0 | 15 | 28 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 11:00 | 0 | 0 | 0 | 15 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 12:00 PM | 1 | 1 | 4 | 14 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 1:00 | 2 | 3 | 3 | 14 | 15 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 2:00 | 1 | 2 | 5 | 12 | 17 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 42 |
| 3:00 | 2 | 1 | 2 | 7 | 14 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 4:00 | 0 | 2 | 3 | 8 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 5:00 | 0 | 0 | 2 | 7 | 16 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 6:00 | 0 | 0 | 0 | 7 | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 0 | 0 | 0 | 3 | 12 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 17 |
| 8:00 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 9:00 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 6 | 13 | 24 | 120 | 186 | 59 | 12 | 3 | 1 | 0 | 0 | 0 | 0 | 424 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 2 | 0 | 0 | 5 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 8:00 | 0 | 0 | 0 | 9 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 1 | 0 | 5 | 12 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 10:00 | 1 | 0 | 5 | 11 | 28 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 2 | 3 | 5 | 20 | 28 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| 12:00 PM | 1 | 0 | 6 | 14 | 40 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 1:00 | 2 | 2 | 1 | 17 | 24 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 2:00 | 2 | 1 | 5 | 18 | 24 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 3:00 | 0 | 2 | 0 | 19 | 30 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 4:00 | 0 | 1 | 2 | 11 | 19 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 5:00 | 0 | 0 | 3 | 5 | 18 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 6:00 | 0 | 0 | 1 | 6 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 0 | 2 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:00 | 0 | 1 | 0 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 12 | 11 | 34 | 156 | 298 | 101 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 626 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 1 | 0 | 1 | 4 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 8:00 | 0 | 1 | 1 | 10 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 9:00 | 3 | 1 | 2 | 15 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 10:00 | 2 | 1 | 4 | 18 | 27 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 11:00 | 1 | 4 | 2 | 31 | 27 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 |
| 12:00 PM | 5 | 3 | 3 | 24 | 30 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 1:00 | 1 | 0 | 0 | 18 | 41 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 2:00 | 1 | 0 | 5 | 17 | 14 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 3:00 | 0 | 2 | 3 | 19 | 29 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| 4:00 | 0 | 1 | 3 | 13 | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 5:00 | 0 | 1 | 4 | 11 | 19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 1 | 3 | 9 | 8 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 7:00 | 0 | 0 | 0 | 6 | 25 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 8:00 | 0 | 0 | 0 | 4 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 10:00 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 16 | 15 | 32 | 201 | 308 | 109 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 689 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:00 | 2 | 0 | 0 | 2 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:00 | 2 | 1 | 3 | 8 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 9:00 | 1 | 1 | 3 | 19 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 10:00 | 4 | 5 | 4 | 20 | 19 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 4 | 1 | 3 | 13 | 31 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 12:00 PM | 0 | 2 | 4 | 15 | 28 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 1:00 | 4 | 1 | 3 | 16 | 26 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 2:00 | 0 | 0 | 3 | 18 | 23 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 3:00 | 3 | 0 | 3 | 16 | 20 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 4:00 | 0 | 4 | 8 | 14 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 5:00 | 2 | 0 | 4 | 4 | 14 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 6:00 | 0 | 0 | 0 | 6 | 13 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 0 | 0 | 0 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 8:00 | 0 | 0 | 0 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 23 | 15 | 39 | 164 | 250 | 100 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 600 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 2 | 1 | 1 | 5 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 9:00 | 2 | 4 | 2 | 8 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 10:00 | 0 | 3 | 3 | 7 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 11:00 | 1 | 0 | 1 | 7 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 12:00 PM | 2 | 3 | 5 | 14 | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 1:00 | 1 | 1 | 2 | 3 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 2:00 | 0 | 0 | 0 | 9 | 16 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 3:00 | 0 | 1 | 1 | 10 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 4:00 | 0 | 1 | 2 | 10 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 5:00 | 0 | 0 | 0 | 7 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 13 |
| 6:00 | 0 | 0 | 1 | 2 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 7:00 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 8:00 | 0 | 0 | 0 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 9:00 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 8 | 14 | 18 | 93 | 147 | 44 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 331 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 7:00 | 2 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 8:00 | 0 | 1 | 0 | 2 | 11 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 9:00 | 0 | 0 | 2 | 8 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 10:00 | 2 | 0 | 6 | 7 | 12 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 11:00 | 1 | 0 | 7 | 11 | 21 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 12:00 PM | 0 | 0 | 3 | 11 | 18 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 1:00 | 3 | 0 | 2 | 12 | 18 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 2:00 | 3 | 1 | 3 | 16 | 11 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 3:00 | 1 | 0 | 0 | 16 | 26 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 4:00 | 0 | 0 | 2 | 3 | 19 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 5:00 | 0 | 0 | 1 | 7 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 6:00 | 0 | 0 | 2 | 3 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 0 | 1 | 0 | 4 | 21 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 8:00 | 0 | 0 | 3 | 2 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 9:00 | 0 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 12 | 3 | 32 | 107 | 214 | 75 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 457 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 1 | 3 | 0 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 9:00 | 0 | 1 | 2 | 7 | 17 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 10:00 | 2 | 2 | 1 | 6 | 27 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 2 | 4 | 5 | 13 | 24 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 12:00 PM | 2 | 1 | 2 | 10 | 27 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 1:00 | 0 | 0 | 1 | 16 | 22 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 2:00 | 1 | 1 | 0 | 15 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 3:00 | 0 | 2 | 3 | 16 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 4:00 | 0 | 1 | 6 | 17 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 5:00 | 0 | 0 | 3 | 16 | 19 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 6:00 | 0 | 0 | 0 | 4 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 7:00 | 0 | 0 | 0 | 4 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 8:00 | 0 | 0 | 0 | 4 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 9 | 15 | 24 | 136 | 248 | 94 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 530 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 8:00 | 1 | 2 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 9:00 | 2 | 3 | 1 | 6 | 10 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 10:00 | 3 | 0 | 3 | 14 | 13 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 3 | 2 | 1 | 3 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 12:00 PM | 0 | 1 | 1 | 18 | 25 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 1:00 | 0 | 0 | 2 | 14 | 27 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 2:00 | 0 | 0 | 2 | 5 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 3:00 | 0 | 0 | 3 | 11 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 4:00 | 0 | 0 | 4 | 6 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 5:00 | 1 | 1 | 1 | 6 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 0 | 0 | 0 | 1 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 0 | 0 | 1 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:00 | 0 | 0 | 0 | 1 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 10 | 10 | 19 | 95 | 179 | 75 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 395 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 7:00 | 0 | 1 | 1 | 13 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:00 | 0 | 0 | 1 | 13 | 18 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 1 | 1 | 1 | 5 | 18 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 10:00 | 0 | 0 | 0 | 17 | 33 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 11:00 | 5 | 2 | 3 | 13 | 22 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 12:00 PM | 0 | 0 | 1 | 16 | 24 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 1:00 | 0 | 1 | 5 | 8 | 24 | 15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 54 |
| 2:00 | 0 | 0 | 5 | 10 | 38 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 3:00 | 0 | 0 | 1 | 22 | 16 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 51 |
| 4:00 | 1 | 3 | 5 | 8 | 19 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 5:00 | 0 | 0 | 2 | 19 | 14 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 6:00 | 0 | 0 | 0 | 9 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 7:00 | 0 | 0 | 0 | 3 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 7 | 8 | 27 | 158 | 263 | 127 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 598 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7:00 | 0 | 0 | 2 | 9 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 8:00 | 0 | 1 | 0 | 10 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 9:00 | 6 | 4 | 4 | 15 | 23 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 10:00 | 1 | 3 | 7 | 26 | 26 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 11:00 | 0 | 3 | 3 | 18 | 22 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 12:00 PM | 1 | 2 | 3 | 17 | 19 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 1:00 | 0 | 0 | 2 | 25 | 30 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| 2:00 | 0 | 1 | 6 | 17 | 20 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 3:00 | 1 | 0 | 5 | 18 | 23 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 4:00 | 0 | 1 | 3 | 12 | 23 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 5:00 | 0 | 1 | 0 | 6 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 0 | 0 | 1 | 5 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 7:00 | 0 | 1 | 1 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 8:00 | 0 | 0 | 1 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 10 | 18 | 38 | 188 | 247 | 82 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 592 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 0 | 0 | 2 | 10 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 8:00 | 0 | 1 | 1 | 6 | 15 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 0 | 1 | 16 | 22 | 23 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 66 |
| 10:00 | 0 | 3 | 7 | 14 | 21 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 11:00 | 2 | 2 | 4 | 14 | 25 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 12:00 PM | 0 | 1 | 1 | 12 | 29 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 1:00 | 0 | 1 | 6 | 14 | 21 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 2:00 | 6 | 1 | 4 | 13 | 30 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 3:00 | 0 | 1 | 4 | 15 | 19 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 4:00 | 0 | 0 | 3 | 9 | 34 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 5:00 | 0 | 0 | 4 | 5 | 19 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 6:00 | 0 | 0 | 1 | 8 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 0 | 5 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 8:00 | 0 | 0 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 9:00 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 8 | 10 | 40 | 149 | 287 | 104 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 613 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 5 | 0 | 6 | 8 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:00 | 0 | 2 | 6 | 11 | 14 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 9:00 | 3 | 2 | 1 | 12 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 10:00 | 3 | 0 | 6 | 13 | 44 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 78 |
| 11:00 | 0 | 2 | 5 | 16 | 32 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| 12:00 PM | 0 | 0 | 1 | 19 | 38 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 1:00 | 1 | 1 | 0 | 22 | 27 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 2:00 | 4 | 0 | 1 | 12 | 28 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| 3:00 | 0 | 0 | 1 | 11 | 29 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 4:00 | 0 | 0 | 1 | 11 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 5:00 | 0 | 0 | 1 | 11 | 20 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 0 | 2 | 10 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 7:00 | 0 | 0 | 0 | 6 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 8:00 | 0 | 0 | 1 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 9:00 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 16 | 8 | 33 | 171 | 316 | 87 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 638 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 0 | 0 | 3 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 1 | 0 | 2 | 6 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 8:00 | 7 | 14 | 6 | 9 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 9:00 | 1 | 0 | 4 | 14 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 10:00 | 0 | 2 | 4 | 19 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11:00 | 5 | 2 | 13 | 12 | 25 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| 12:00 PM | 1 | 0 | 4 | 20 | 29 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 1:00 | 3 | 11 | 13 | 8 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 2:00 | 8 | 5 | 25 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 3:00 | 0 | 0 | 5 | 16 | 22 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 4:00 | 0 | 0 | 6 | 10 | 20 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 5:00 | 1 | 1 | 2 | 11 | 8 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 6:00 | 0 | 0 | 1 | 1 | 20 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 7:00 | 0 | 0 | 3 | 5 | 14 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 8:00 | 0 | 0 | 1 | 9 | 13 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 9:00 | 0 | 0 | 0 | 5 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 27 | 35 | 92 | 160 | 246 | 78 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 647 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 1 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 8:00 | 1 | 2 | 0 | 9 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 9:00 | 3 | 1 | 2 | 6 | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 10:00 | 1 | 3 | 1 | 13 | 24 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 11:00 | 6 | 6 | 6 | 9 | 18 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 12:00 PM | 5 | 2 | 4 | 21 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 1:00 | 2 | 1 | 5 | 13 | 19 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 2:00 | 0 | 2 | 4 | 13 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 3:00 | 4 | 2 | 2 | 14 | 24 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 4:00 | 0 | 1 | 4 | 17 | 20 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 5:00 | 1 | 1 | 4 | 17 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 0 | 4 | 6 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 0 | 0 | 0 | 9 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 8:00 | 0 | 0 | 0 | 3 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 0 | 0 | 1 | 2 | 9 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 10:00 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 24 | 22 | 37 | 160 | 216 | 81 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 548 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:00 | 1 | 2 | 0 | 8 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 9:00 | 0 | 1 | 1 | 9 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 10:00 | 0 | 3 | 3 | 16 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 11:00 | 3 | 1 | 5 | 17 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 12:00 PM | 2 | 1 | 4 | 15 | 17 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 1:00 | 2 | 3 | 4 | 15 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 2:00 | 1 | 0 | 6 | 11 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 3:00 | 0 | 0 | 2 | 8 | 10 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 4:00 | 1 | 2 | 1 | 11 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 5:00 | 2 | 0 | 1 | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 6:00 | 0 | 0 | 1 | 5 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 7:00 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 8:00 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 12 | 13 | 28 | 141 | 152 | 30 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 379 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:00 | 3 | 0 | 3 | 9 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 8:00 | 1 | 1 | 3 | 11 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 9:00 | 0 | 0 | 2 | 18 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 10:00 | 0 | 0 | 2 | 24 | 21 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 2 | 1 | 4 | 18 | 31 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 12:00 PM | 2 | 1 | 5 | 24 | 42 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 1:00 | 0 | 1 | 1 | 16 | 28 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 2:00 | 1 | 1 | 4 | 13 | 25 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 3:00 | 4 | 2 | 6 | 17 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 4:00 | 0 | 1 | 6 | 20 | 16 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 50 |
| 5:00 | 0 | 1 | 1 | 12 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 6:00 | 0 | 0 | 1 | 5 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 0 | 0 | 1 | 4 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 8:00 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 13 | 9 | 39 | 198 | 262 | 52 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 582 |

City of Sanibel
Location: Rabbit Road

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Southbound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6:00 | 2 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 0 | 0 | 1 | 9 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 8:00 | 0 | 1 | 3 | 23 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 9:00 | 5 | 0 | 6 | 14 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 10:00 | 0 | 0 | 8 | 26 | 33 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 11:00 | 0 | 0 | 3 | 28 | 32 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 12:00 PM | 1 | 4 | 5 | 31 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 1:00 | 7 | 1 | 6 | 22 | 25 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| 2:00 | 1 | 2 | 11 | 26 | 21 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 3:00 | 0 | 2 | 5 | 21 | 23 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 4:00 | 2 | 0 | 1 | 9 | 18 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 5:00 | 1 | 0 | 0 | 17 | 22 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 6:00 | 0 | 0 | 1 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 0 | 0 | 0 | 5 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 20 | 11 | 52 | 235 | 279 | 70 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 678 |
| Grand Total | 272 | 289 | 751 | 3254 | 5248 | 1746 | 183 | 16 | 1 | 1 | 0 | 0 | 0 | 11761 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 25 | 30 | 34 | 37 |
| | Mean Speed (Average) | 31.0 | | | |
| | 10 MPH Pace Speed | 26-35 | | | |
| | Number in Pace | 8502 | | | |
| | Percent in Pace | 72.0% | | | |
| | Number > 30 MPH | 7195 | | | |
| | Percent > 30 MPH | 61.2% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 3 | 2 | 31 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 49 |
| 7:00 | 0 | 0 | 1 | 5 | 13 | 46 | 29 | 6 | 0 | 0 | 0 | 0 | 0 | 100 |
| 8:00 | 8 | 0 | 1 | 2 | 32 | 86 | 36 | 5 | 0 | 0 | 0 | 0 | 0 | 170 |
| 9:00 | 1 | 0 | 0 | 1 | 44 | 124 | 39 | 3 | 0 | 0 | 0 | 0 | 0 | 212 |
| 10:00 | 2 | 0 | 0 | 5 | 50 | 144 | 44 | 4 | 0 | 0 | 0 | 0 | 0 | 249 |
| 11:00 | 0 | 0 | 0 | 1 | 51 | 183 | 61 | 5 | 0 | 0 | 0 | 0 | 0 | 301 |
| 12:00 PM | 4 | 0 | 1 | 9 | 74 | 163 | 59 | 2 | 1 | 0 | 0 | 0 | 0 | 313 |
| 1:00 | 1 | 0 | 0 | 6 | 94 | 199 | 71 | 7 | 1 | 1 | 0 | 0 | 0 | 380 |
| 2:00 | 0 | 0 | 0 | 7 | 99 | 183 | 72 | 7 | 0 | 0 | 0 | 0 | 0 | 368 |
| 3:00 | 1 | 0 | 1 | 7 | 83 | 203 | 91 | 8 | 1 | 0 | 0 | 0 | 0 | 395 |
| 4:00 | 1 | 0 | 0 | 4 | 61 | 179 | 70 | 6 | 0 | 1 | 0 | 0 | 0 | 322 |
| 5:00 | 0 | 0 | 0 | 6 | 57 | 194 | 37 | 2 | 1 | 0 | 0 | 0 | 0 | 297 |
| 6:00 | 0 | 0 | 0 | 3 | 36 | 98 | 40 | 7 | 1 | 1 | 0 | 0 | 0 | 186 |
| 7:00 | 0 | 0 | 0 | 1 | 9 | 40 | 19 | 5 | 0 | 1 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 18 | 22 | 4 | 2 | 0 | 0 | 0 | 0 | 48 |
| 9:00 | 0 | 0 | 0 | 0 | 14 | 45 | 24 | 1 | 0 | 1 | 0 | 0 | 0 | 85 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 33 | 18 | 4 | 0 | 0 | 0 | 0 | 0 | 58 |
| 11:00 | 0 | 0 | 0 | 0 | 6 | 6 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 21 |
| Total | 18 | 0 | 4 | 60 | 734 | 1988 | 756 | 81 | 9 | 5 | 0 | 0 | 0 | 3655 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 1 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 1 | 6 | 26 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 40 |
| 7:00 | 0 | 0 | 1 | 2 | 11 | 45 | 29 | 4 | 2 | 0 | 0 | 0 | 0 | 94 |
| 8:00 | 2 | 0 | 0 | 4 | 28 | 106 | 39 | 10 | 0 | 0 | 0 | 1 | 0 | 190 |
| 9:00 | 3 | 0 | 0 | 2 | 46 | 112 | 49 | 6 | 1 | 0 | 0 | 0 | 0 | 219 |
| 10:00 | 0 | 0 | 0 | 8 | 67 | 160 | 39 | 9 | 0 | 0 | 0 | 0 | 0 | 283 |
| 11:00 | 6 | 1 | 4 | 11 | 67 | 180 | 68 | 3 | 1 | 0 | 0 | 0 | 0 | 341 |
| 12:00 PM | 2 | 0 | 1 | 4 | 61 | 178 | 73 | 10 | 1 | 0 | 0 | 0 | 0 | 330 |
| 1:00 | 2 | 0 | 0 | 4 | 74 | 167 | 38 | 4 | 1 | 0 | 0 | 0 | 0 | 290 |
| 2:00 | 4 | 0 | 0 | 9 | 90 | 214 | 58 | 6 | 0 | 0 | 0 | 0 | 0 | 381 |
| 3:00 | 0 | 0 | 0 | 3 | 97 | 224 | 72 | 3 | 0 | 0 | 0 | 0 | 1 | 400 |
| 4:00 | 0 | 0 | 0 | 2 | 63 | 201 | 64 | 9 | 0 | 0 | 0 | 0 | 0 | 339 |
| 5:00 | 0 | 1 | 0 | 3 | 48 | 164 | 55 | 4 | 0 | 0 | 0 | 0 | 0 | 275 |
| 6:00 | 0 | 0 | 0 | 6 | 45 | 105 | 51 | 0 | 1 | 0 | 0 | 0 | 0 | 208 |
| 7:00 | 0 | 0 | 0 | 0 | 13 | 35 | 27 | 6 | 1 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 34 | 11 | 2 | 1 | 1 | 0 | 0 | 0 | 54 |
| 9:00 | 0 | 0 | 0 | 0 | 8 | 52 | 25 | 4 | 0 | 0 | 0 | 0 | 0 | 89 |
| 10:00 | 0 | 0 | 0 | 0 | 10 | 19 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 40 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 3 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 15 |
| Total | 19 | 3 | 6 | 59 | 747 | 2038 | 726 | 86 | 12 | 2 | 0 | 1 | 1 | 3700 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 5 | 4 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 32 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 46 |
| 7:00 | 0 | 0 | 0 | 3 | 15 | 45 | 27 | 3 | 1 | 0 | 0 | 0 | 0 | 94 |
| 8:00 | 3 | 0 | 0 | 4 | 24 | 47 | 43 | 4 | 2 | 0 | 0 | 0 | 0 | 127 |
| 9:00 | 2 | 0 | 0 | 3 | 25 | 135 | 42 | 1 | 0 | 0 | 0 | 0 | 0 | 208 |
| 10:00 | 0 | 0 | 0 | 6 | 35 | 143 | 62 | 6 | 0 | 0 | 0 | 0 | 0 | 252 |
| 11:00 | 4 | 0 | 0 | 5 | 41 | 188 | 72 | 5 | 0 | 0 | 0 | 0 | 0 | 315 |
| 12:00 PM | 1 | 0 | 1 | 9 | 59 | 163 | 91 | 8 | 0 | 0 | 0 | 0 | 0 | 332 |
| 1:00 | 3 | 0 | 1 | 4 | 62 | 172 | 66 | 7 | 0 | 0 | 0 | 0 | 0 | 315 |
| 2:00 | 7 | 0 | 1 | 3 | 57 | 202 | 72 | 15 | 1 | 0 | 0 | 0 | 0 | 358 |
| 3:00 | 1 | 0 | 1 | 12 | 72 | 205 | 83 | 4 | 1 | 0 | 0 | 0 | 0 | 379 |
| 4:00 | 0 | 0 | 0 | 5 | 26 | 134 | 89 | 17 | 0 | 0 | 0 | 0 | 0 | 271 |
| 5:00 | 2 | 0 | 0 | 10 | 54 | 172 | 41 | 4 | 1 | 0 | 0 | 0 | 0 | 284 |
| 6:00 | 2 | 0 | 0 | 0 | 22 | 117 | 54 | 10 | 0 | 0 | 0 | 0 | 0 | 205 |
| 7:00 | 0 | 0 | 0 | 1 | 10 | 40 | 28 | 3 | 2 | 0 | 0 | 0 | 0 | 84 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 20 | 17 | 6 | 0 | 1 | 0 | 0 | 0 | 47 |
| 9:00 | 0 | 0 | 0 | 1 | 15 | 50 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 86 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 27 | 16 | 5 | 2 | 0 | 0 | 0 | 0 | 56 |
| 11:00 | 0 | 0 | 0 | 0 | 5 | 6 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 24 |
| Total | 25 | 0 | 4 | 66 | 546 | 1905 | 844 | 107 | 11 | 2 | 0 | 0 | 0 | 3510 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
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Start Date: 11/19/2025
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| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 3 | 0 | 1 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 20 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 28 |
| 7:00 | 0 | 0 | 1 | 4 | 4 | 58 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 87 |
| 8:00 | 0 | 2 | 0 | 3 | 16 | 66 | 41 | 6 | 0 | 0 | 0 | 0 | 0 | 134 |
| 9:00 | 1 | 2 | 1 | 4 | 43 | 94 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 191 |
| 10:00 | 3 | 3 | 1 | 6 | 32 | 116 | 70 | 24 | 6 | 0 | 0 | 0 | 0 | 261 |
| 11:00 | 0 | 1 | 2 | 5 | 9 | 113 | 109 | 31 | 3 | 0 | 0 | 0 | 0 | 273 |
| 12:00 PM | 3 | 0 | 0 | 3 | 7 | 85 | 102 | 33 | 1 | 1 | 0 | 0 | 0 | 235 |
| 1:00 | 2 | 0 | 0 | 0 | 12 | 78 | 112 | 27 | 11 | 2 | 0 | 0 | 0 | 244 |
| 2:00 | 1 | 0 | 0 | 1 | 13 | 129 | 128 | 40 | 9 | 0 | 0 | 0 | 0 | 321 |
| 3:00 | 0 | 0 | 1 | 1 | 14 | 123 | 116 | 48 | 7 | 2 | 0 | 0 | 0 | 312 |
| 4:00 | 0 | 0 | 1 | 0 | 9 | 87 | 135 | 33 | 9 | 1 | 0 | 0 | 0 | 275 |
| 5:00 | 1 | 0 | 0 | 2 | 13 | 105 | 101 | 36 | 5 | 2 | 0 | 0 | 0 | 265 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 61 | 88 | 36 | 10 | 0 | 0 | 0 | 0 | 201 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 30 | 52 | 10 | 1 | 0 | 1 | 0 | 0 | 98 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 28 | 36 | 11 | 6 | 1 | 0 | 0 | 0 | 85 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 29 | 38 | 15 | 1 | 0 | 0 | 0 | 0 | 84 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 18 | 30 | 13 | 2 | 3 | 0 | 0 | 0 | 68 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 10 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | 11 | 8 | 7 | 29 | 199 | 1267 | 1256 | 377 | 73 | 13 | 1 | 0 | 0 | 3241 |

City of Sanibel
Location: Sanibel Captiva Road
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| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 3 | 1 | 2 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 1 | 0 | 1 | 2 | 10 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 7:00 | 0 | 0 | 0 | 1 | 1 | 14 | 25 | 8 | 0 | 0 | 1 | 0 | 0 | 50 |
| 8:00 | 0 | 0 | 0 | 2 | 4 | 36 | 78 | 16 | 5 | 1 | 0 | 0 | 0 | 142 |
| 9:00 | 0 | 1 | 3 | 3 | 17 | 84 | 115 | 22 | 1 | 0 | 0 | 0 | 0 | 246 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 81 | 97 | 18 | 3 | 0 | 0 | 0 | 0 | 203 |
| 11:00 | 0 | 0 | 0 | 0 | 4 | 92 | 100 | 24 | 4 | 1 | 0 | 0 | 1 | 226 |
| 12:00 PM | 0 | 1 | 0 | 1 | 19 | 110 | 74 | 24 | 1 | 0 | 0 | 0 | 0 | 230 |
| 1:00 | 2 | 1 | 0 | 2 | 12 | 71 | 101 | 36 | 5 | 0 | 0 | 0 | 0 | 230 |
| 2:00 | 2 | 0 | 1 | 0 | 18 | 88 | 117 | 28 | 4 | 1 | 0 | 0 | 0 | 259 |
| 3:00 | 0 | 0 | 0 | 0 | 8 | 87 | 119 | 44 | 8 | 1 | 0 | 0 | 1 | 268 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 83 | 100 | 50 | 10 | 4 | 0 | 0 | 0 | 249 |
| 5:00 | 0 | 0 | 0 | 2 | 21 | 96 | 101 | 21 | 4 | 1 | 0 | 0 | 0 | 246 |
| 6:00 | 0 | 0 | 0 | 0 | 10 | 50 | 79 | 34 | 3 | 0 | 0 | 0 | 0 | 176 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 16 | 51 | 20 | 1 | 1 | 0 | 0 | 0 | 91 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 21 | 25 | 8 | 2 | 3 | 0 | 0 | 0 | 60 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 38 | 32 | 3 | 1 | 0 | 0 | 0 | 0 | 78 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 25 | 27 | 5 | 1 | 1 | 0 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 4 | 4 | 4 | 12 | 132 | 1019 | 1271 | 378 | 56 | 17 | 1 | 0 | 2 | 2900 |

City of Sanibel
Location: Sanibel Captiva Road
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JOHNSON ENGINEERING
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Start Date: 11/19/2025
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| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 1 | 0 | 0 | 0 | 1 | 9 | 8 | 6 | 1 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 4 | 0 | 0 | 0 | 7 | 30 | 40 | 28 | 3 | 0 | 0 | 0 | 0 | 112 |
| 8:00 | 2 | 0 | 0 | 1 | 4 | 51 | 87 | 19 | 6 | 0 | 0 | 0 | 0 | 170 |
| 9:00 | 2 | 0 | 2 | 4 | 19 | 78 | 125 | 22 | 3 | 1 | 0 | 0 | 0 | 256 |
| 10:00 | 0 | 0 | 1 | 0 | 21 | 117 | 142 | 26 | 2 | 1 | 0 | 0 | 0 | 310 |
| 11:00 | 0 | 0 | 0 | 6 | 18 | 162 | 138 | 22 | 4 | 0 | 0 | 0 | 0 | 350 |
| 12:00 PM | 1 | 0 | 0 | 7 | 27 | 130 | 122 | 36 | 5 | 1 | 0 | 0 | 0 | 329 |
| 1:00 | 2 | 0 | 0 | 2 | 16 | 105 | 146 | 50 | 6 | 0 | 0 | 0 | 0 | 327 |
| 2:00 | 0 | 0 | 1 | 7 | 25 | 136 | 157 | 43 | 9 | 2 | 0 | 0 | 0 | 380 |
| 3:00 | 0 | 1 | 7 | 7 | 34 | 142 | 152 | 43 | 7 | 0 | 0 | 0 | 0 | 393 |
| 4:00 | 0 | 0 | 0 | 3 | 18 | 143 | 137 | 49 | 3 | 1 | 0 | 0 | 0 | 354 |
| 5:00 | 0 | 0 | 0 | 1 | 16 | 116 | 154 | 15 | 2 | 0 | 0 | 0 | 0 | 304 |
| 6:00 | 0 | 0 | 0 | 1 | 27 | 96 | 68 | 26 | 9 | 1 | 0 | 0 | 0 | 228 |
| 7:00 | 0 | 0 | 0 | 1 | 1 | 19 | 52 | 19 | 2 | 1 | 0 | 0 | 0 | 95 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 21 | 30 | 10 | 0 | 0 | 0 | 1 | 0 | 62 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 13 | 25 | 9 | 3 | 2 | 0 | 0 | 0 | 52 |
| 10:00 | 0 | 0 | 0 | 0 | 6 | 20 | 26 | 8 | 1 | 0 | 0 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 7 | 0 | 0 | 1 | 1 | 0 | 33 |
| Total | 12 | 1 | 11 | 40 | 243 | 1398 | 1642 | 443 | 69 | 10 | 3 | 2 | 0 | 3874 |

City of Sanibel
Location: Sanibel Captiva Road
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JOHNSON ENGINEERING
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| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 10 | 27 | 3 | 1 | 0 | 0 | 0 | 0 | 42 |
| 7:00 | 2 | 0 | 0 | 1 | 4 | 22 | 43 | 15 | 7 | 1 | 0 | 0 | 0 | 95 |
| 8:00 | 1 | 0 | 0 | 4 | 6 | 57 | 77 | 25 | 4 | 0 | 0 | 0 | 0 | 174 |
| 9:00 | 5 | 0 | 0 | 0 | 16 | 82 | 118 | 30 | 4 | 1 | 0 | 0 | 0 | 256 |
| 10:00 | 5 | 0 | 0 | 6 | 32 | 119 | 141 | 30 | 4 | 0 | 0 | 0 | 0 | 337 |
| 11:00 | 3 | 0 | 1 | 4 | 16 | 155 | 133 | 39 | 0 | 0 | 0 | 0 | 0 | 351 |
| 12:00 PM | 1 | 8 | 9 | 8 | 18 | 184 | 141 | 28 | 3 | 0 | 0 | 0 | 0 | 400 |
| 1:00 | 0 | 0 | 0 | 2 | 31 | 137 | 188 | 48 | 1 | 1 | 0 | 0 | 0 | 408 |
| 2:00 | 1 | 0 | 0 | 1 | 15 | 191 | 136 | 53 | 5 | 1 | 0 | 0 | 0 | 403 |
| 3:00 | 0 | 0 | 0 | 2 | 41 | 226 | 184 | 27 | 4 | 0 | 0 | 0 | 0 | 484 |
| 4:00 | 5 | 0 | 0 | 7 | 31 | 118 | 145 | 31 | 3 | 0 | 0 | 0 | 0 | 340 |
| 5:00 | 0 | 0 | 1 | 1 | 27 | 102 | 148 | 21 | 3 | 1 | 0 | 0 | 0 | 304 |
| 6:00 | 1 | 0 | 0 | 0 | 17 | 98 | 112 | 30 | 4 | 0 | 0 | 0 | 0 | 262 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 37 | 64 | 26 | 1 | 2 | 0 | 0 | 0 | 131 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 19 | 47 | 9 | 2 | 0 | 0 | 0 | 0 | 79 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 23 | 32 | 13 | 3 | 1 | 0 | 0 | 0 | 72 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 25 | 30 | 9 | 3 | 0 | 1 | 0 | 0 | 72 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 15 | 5 | 4 | 2 | 0 | 0 | 0 | 0 | 26 |
| Total | 24 | 8 | 11 | 37 | 264 | 1627 | 1784 | 445 | 56 | 10 | 1 | 0 | 0 | 4267 |

City of Sanibel
Location: Sanibel Captiva Road
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JOHNSON ENGINEERING
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Start Date: 11/19/2025
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| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 0 | 0 | 1 | 4 | 15 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 29 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 14 | 37 | 19 | 5 | 1 | 0 | 0 | 0 | 78 |
| 8:00 | 1 | 0 | 0 | 1 | 7 | 70 | 69 | 22 | 5 | 2 | 0 | 0 | 0 | 177 |
| 9:00 | 0 | 1 | 0 | 2 | 16 | 85 | 112 | 24 | 3 | 0 | 0 | 0 | 0 | 243 |
| 10:00 | 2 | 0 | 0 | 4 | 30 | 117 | 137 | 19 | 0 | 0 | 0 | 0 | 0 | 309 |
| 11:00 | 2 | 0 | 1 | 5 | 28 | 149 | 132 | 21 | 2 | 0 | 0 | 1 | 0 | 341 |
| 12:00 PM | 3 | 0 | 1 | 3 | 22 | 135 | 129 | 33 | 7 | 0 | 0 | 0 | 0 | 333 |
| 1:00 | 1 | 0 | 0 | 0 | 11 | 118 | 169 | 37 | 8 | 0 | 0 | 0 | 0 | 344 |
| 2:00 | 0 | 0 | 1 | 3 | 26 | 141 | 173 | 43 | 7 | 0 | 0 | 0 | 0 | 394 |
| 3:00 | 0 | 0 | 0 | 5 | 26 | 163 | 153 | 33 | 7 | 1 | 0 | 0 | 0 | 388 |
| 4:00 | 1 | 3 | 2 | 1 | 11 | 133 | 134 | 44 | 9 | 1 | 0 | 0 | 0 | 339 |
| 5:00 | 0 | 0 | 0 | 1 | 9 | 105 | 129 | 30 | 5 | 0 | 0 | 0 | 0 | 279 |
| 6:00 | 0 | 0 | 0 | 2 | 13 | 90 | 88 | 23 | 7 | 0 | 0 | 0 | 0 | 223 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 45 | 43 | 10 | 2 | 0 | 0 | 0 | 0 | 102 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 5 | 33 | 16 | 2 | 1 | 0 | 0 | 0 | 59 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 33 | 48 | 8 | 0 | 2 | 1 | 0 | 0 | 95 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 19 | 31 | 9 | 2 | 0 | 1 | 0 | 0 | 63 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 14 | 19 | 6 | 1 | 0 | 0 | 0 | 0 | 42 |
| Total | 10 | 4 | 5 | 28 | 217 | 1463 | 1654 | 408 | 75 | 12 | 2 | 1 | 0 | 3879 |

City of Sanibel
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| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 7 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 3 | 1 | 1 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 1 | 1 | 1 | 0 | 0 | 10 |
| 6:00 | 0 | 1 | 0 | 0 | 2 | 5 | 11 | 5 | 2 | 0 | 1 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 7 | 23 | 6 | 4 | 1 | 0 | 0 | 0 | 44 |
| 8:00 | 0 | 1 | 0 | 3 | 5 | 21 | 24 | 11 | 3 | 1 | 0 | 0 | 0 | 69 |
| 9:00 | 0 | 1 | 1 | 3 | 10 | 38 | 54 | 8 | 5 | 0 | 0 | 0 | 0 | 120 |
| 10:00 | 0 | 2 | 0 | 2 | 4 | 51 | 76 | 19 | 2 | 0 | 1 | 0 | 0 | 157 |
| 11:00 | 3 | 0 | 0 | 0 | 1 | 77 | 82 | 30 | 2 | 0 | 0 | 0 | 0 | 195 |
| 12:00 PM | 0 | 0 | 0 | 4 | 8 | 54 | 66 | 18 | 5 | 3 | 0 | 0 | 0 | 158 |
| 1:00 | 0 | 1 | 0 | 0 | 8 | 56 | 73 | 21 | 7 | 1 | 0 | 0 | 0 | 167 |
| 2:00 | 0 | 0 | 0 | 2 | 13 | 93 | 100 | 44 | 10 | 2 | 0 | 0 | 0 | 264 |
| 3:00 | 1 | 0 | 0 | 0 | 13 | 104 | 73 | 26 | 8 | 3 | 0 | 0 | 0 | 228 |
| 4:00 | 0 | 0 | 0 | 2 | 15 | 49 | 80 | 31 | 4 | 1 | 0 | 0 | 0 | 182 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 52 | 65 | 18 | 3 | 3 | 0 | 0 | 0 | 143 |
| 6:00 | 0 | 0 | 0 | 1 | 6 | 24 | 80 | 33 | 5 | 0 | 0 | 0 | 0 | 149 |
| 7:00 | 0 | 0 | 0 | 1 | 4 | 14 | 43 | 16 | 2 | 0 | 0 | 0 | 0 | 80 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 16 | 36 | 12 | 6 | 0 | 0 | 0 | 0 | 72 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 23 | 30 | 15 | 2 | 0 | 0 | 0 | 0 | 72 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 16 | 14 | 2 | 4 | 1 | 0 | 0 | 0 | 44 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 4 | 2 | 1 | 0 | 0 | 0 | 20 |
| Total | 4 | 6 | 1 | 18 | 107 | 718 | 954 | 323 | 83 | 21 | 4 | 0 | 0 | 2239 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 6 | 5 | 5 | 3 | 4 | 0 | 0 | 0 | 25 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 8 | 21 | 5 | 2 | 0 | 0 | 0 | 0 | 36 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 17 | 38 | 11 | 3 | 0 | 0 | 1 | 0 | 72 |
| 8:00 | 0 | 0 | 0 | 3 | 4 | 36 | 53 | 32 | 3 | 0 | 0 | 0 | 0 | 131 |
| 9:00 | 0 | 0 | 0 | 0 | 11 | 55 | 118 | 25 | 6 | 1 | 0 | 0 | 0 | 216 |
| 10:00 | 0 | 0 | 0 | 0 | 8 | 90 | 123 | 37 | 7 | 1 | 0 | 0 | 0 | 266 |
| 11:00 | 0 | 0 | 0 | 3 | 15 | 113 | 130 | 33 | 5 | 1 | 0 | 0 | 0 | 300 |
| 12:00 PM | 1 | 0 | 0 | 1 | 12 | 110 | 125 | 32 | 5 | 2 | 0 | 0 | 0 | 288 |
| 1:00 | 1 | 0 | 0 | 8 | 16 | 83 | 120 | 33 | 6 | 0 | 1 | 0 | 0 | 268 |
| 2:00 | 0 | 0 | 1 | 1 | 12 | 107 | 157 | 24 | 2 | 1 | 0 | 0 | 0 | 305 |
| 3:00 | 0 | 0 | 0 | 2 | 12 | 109 | 109 | 36 | 3 | 3 | 0 | 0 | 0 | 274 |
| 4:00 | 2 | 0 | 0 | 3 | 11 | 128 | 131 | 22 | 6 | 0 | 0 | 0 | 0 | 303 |
| 5:00 | 0 | 0 | 0 | 1 | 9 | 99 | 100 | 18 | 1 | 1 | 0 | 0 | 0 | 229 |
| 6:00 | 0 | 0 | 0 | 3 | 14 | 61 | 102 | 26 | 4 | 0 | 0 | 0 | 1 | 211 |
| 7:00 | 1 | 1 | 0 | 0 | 4 | 84 | 109 | 23 | 6 | 0 | 0 | 0 | 0 | 228 |
| 8:00 | 1 | 0 | 1 | 1 | 2 | 58 | 61 | 10 | 5 | 1 | 0 | 0 | 0 | 140 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 45 | 53 | 20 | 3 | 2 | 0 | 0 | 0 | 130 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 27 | 53 | 9 | 3 | 3 | 0 | 0 | 0 | 98 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 10 | 25 | 6 | 1 | 0 | 0 | 0 | 0 | 42 |
| Total | 6 | 1 | 2 | 26 | 145 | 1248 | 1639 | 414 | 75 | 20 | 1 | 1 | 1 | 3579 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 1 | 3 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 9 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 3 | 0 | 0 | 0 | 12 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 7 | 0 | 1 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 7 | 1 | 1 | 0 | 0 | 0 | 23 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 9 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 0 | 1 | 6 | 14 | 25 | 18 | 3 | 0 | 0 | 0 | 0 | 67 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 49 | 58 | 24 | 4 | 0 | 0 | 0 | 0 | 139 |
| 9:00 | 0 | 1 | 0 | 3 | 21 | 87 | 70 | 12 | 4 | 0 | 0 | 0 | 0 | 198 |
| 10:00 | 2 | 0 | 0 | 0 | 12 | 118 | 137 | 33 | 6 | 0 | 0 | 0 | 0 | 308 |
| 11:00 | 0 | 0 | 0 | 2 | 15 | 109 | 99 | 22 | 2 | 0 | 0 | 0 | 0 | 249 |
| 12:00 PM | 0 | 0 | 1 | 2 | 28 | 87 | 92 | 37 | 3 | 0 | 1 | 1 | 0 | 252 |
| 1:00 | 0 | 0 | 0 | 1 | 10 | 107 | 111 | 33 | 5 | 0 | 0 | 0 | 0 | 267 |
| 2:00 | 1 | 0 | 1 | 1 | 20 | 147 | 125 | 29 | 5 | 1 | 1 | 0 | 0 | 331 |
| 3:00 | 3 | 0 | 1 | 1 | 12 | 135 | 130 | 28 | 7 | 3 | 1 | 0 | 0 | 321 |
| 4:00 | 0 | 0 | 2 | 2 | 10 | 126 | 164 | 29 | 7 | 2 | 0 | 0 | 0 | 342 |
| 5:00 | 0 | 0 | 0 | 0 | 23 | 153 | 114 | 31 | 2 | 0 | 0 | 0 | 0 | 323 |
| 6:00 | 1 | 0 | 0 | 0 | 5 | 62 | 112 | 31 | 5 | 2 | 0 | 0 | 0 | 218 |
| 7:00 | 0 | 0 | 1 | 0 | 0 | 28 | 41 | 20 | 1 | 2 | 0 | 0 | 0 | 93 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 23 | 40 | 16 | 5 | 0 | 0 | 0 | 0 | 87 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 41 | 52 | 12 | 2 | 0 | 0 | 0 | 0 | 107 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 24 | 31 | 5 | 1 | 0 | 0 | 0 | 0 | 64 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 6 | 9 | 5 | 0 | 0 | 0 | 1 | 0 | 24 |
| Total | 7 | 1 | 6 | 13 | 177 | 1342 | 1446 | 406 | 69 | 15 | 3 | 2 | 0 | 3487 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 3 | 1 | 1 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 11 | 12 | 6 | 0 | 1 | 0 | 0 | 0 | 31 |
| 7:00 | 0 | 0 | 0 | 2 | 0 | 23 | 28 | 12 | 1 | 0 | 0 | 0 | 0 | 66 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 29 | 67 | 20 | 6 | 0 | 1 | 0 | 0 | 130 |
| 9:00 | 2 | 4 | 0 | 2 | 11 | 68 | 89 | 27 | 5 | 1 | 0 | 0 | 0 | 209 |
| 10:00 | 2 | 0 | 0 | 0 | 7 | 67 | 84 | 25 | 5 | 1 | 0 | 0 | 0 | 191 |
| 11:00 | 1 | 0 | 1 | 2 | 17 | 80 | 91 | 21 | 1 | 1 | 0 | 0 | 0 | 215 |
| 12:00 PM | 0 | 0 | 0 | 0 | 12 | 89 | 109 | 31 | 3 | 0 | 0 | 0 | 0 | 244 |
| 1:00 | 0 | 0 | 0 | 1 | 9 | 96 | 88 | 19 | 3 | 1 | 0 | 0 | 1 | 218 |
| 2:00 | 4 | 0 | 0 | 3 | 4 | 105 | 86 | 31 | 8 | 4 | 0 | 0 | 0 | 245 |
| 3:00 | 0 | 0 | 1 | 6 | 26 | 91 | 115 | 26 | 5 | 1 | 0 | 0 | 0 | 271 |
| 4:00 | 0 | 0 | 0 | 1 | 7 | 98 | 104 | 39 | 6 | 0 | 0 | 0 | 0 | 255 |
| 5:00 | 0 | 0 | 0 | 0 | 9 | 132 | 119 | 23 | 7 | 1 | 0 | 0 | 0 | 291 |
| 6:00 | 0 | 0 | 0 | 6 | 8 | 39 | 61 | 14 | 4 | 1 | 1 | 0 | 0 | 134 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 22 | 26 | 4 | 2 | 1 | 0 | 0 | 0 | 57 |
| 8:00 | 0 | 0 | 0 | 0 | 1 | 12 | 25 | 15 | 2 | 1 | 0 | 0 | 0 | 56 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 17 | 24 | 9 | 2 | 2 | 0 | 0 | 0 | 59 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 12 | 11 | 7 | 1 | 0 | 0 | 0 | 0 | 31 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 9 | 4 | 2 | 23 | 128 | 1005 | 1166 | 344 | 64 | 18 | 2 | 0 | 1 | 2766 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 8 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 27 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 7 | 18 | 6 | 0 | 0 | 0 | 0 | 0 | 35 |
| 7:00 | 0 | 0 | 0 | 1 | 6 | 26 | 52 | 10 | 3 | 0 | 0 | 0 | 0 | 98 |
| 8:00 | 0 | 0 | 1 | 0 | 4 | 60 | 51 | 22 | 2 | 0 | 0 | 0 | 0 | 140 |
| 9:00 | 0 | 0 | 0 | 3 | 12 | 81 | 101 | 12 | 2 | 1 | 0 | 0 | 0 | 212 |
| 10:00 | 0 | 0 | 1 | 1 | 12 | 98 | 114 | 25 | 1 | 0 | 0 | 0 | 0 | 252 |
| 11:00 | 1 | 0 | 0 | 1 | 28 | 102 | 104 | 32 | 2 | 0 | 0 | 0 | 0 | 270 |
| 12:00 PM | 1 | 1 | 0 | 0 | 17 | 120 | 120 | 21 | 1 | 0 | 0 | 0 | 1 | 282 |
| 1:00 | 2 | 0 | 0 | 4 | 20 | 135 | 120 | 35 | 3 | 0 | 0 | 0 | 0 | 319 |
| 2:00 | 3 | 0 | 0 | 7 | 27 | 138 | 168 | 26 | 5 | 0 | 0 | 0 | 0 | 374 |
| 3:00 | 3 | 0 | 1 | 4 | 32 | 196 | 147 | 21 | 5 | 2 | 0 | 0 | 0 | 411 |
| 4:00 | 0 | 0 | 0 | 1 | 8 | 133 | 142 | 29 | 5 | 1 | 0 | 0 | 0 | 319 |
| 5:00 | 0 | 0 | 0 | 2 | 12 | 117 | 107 | 15 | 1 | 0 | 0 | 0 | 0 | 254 |
| 6:00 | 0 | 0 | 0 | 0 | 6 | 66 | 66 | 16 | 2 | 0 | 0 | 0 | 0 | 156 |
| 7:00 | 0 | 0 | 0 | 1 | 2 | 23 | 28 | 15 | 4 | 2 | 0 | 0 | 0 | 75 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 11 | 24 | 8 | 0 | 0 | 1 | 0 | 0 | 44 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 17 | 20 | 4 | 4 | 0 | 0 | 0 | 0 | 46 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 10 | 16 | 1 | 2 | 0 | 0 | 0 | 0 | 29 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 10 | 1 | 3 | 25 | 192 | 1355 | 1425 | 304 | 43 | 6 | 2 | 0 | 1 | 3367 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 1 | 0 | 0 | 2 | 8 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 21 |
| 6:00 | 0 | 0 | 0 | 1 | 0 | 7 | 14 | 6 | 0 | 0 | 0 | 0 | 0 | 28 |
| 7:00 | 1 | 0 | 0 | 4 | 7 | 38 | 39 | 20 | 1 | 0 | 1 | 0 | 0 | 111 |
| 8:00 | 0 | 0 | 1 | 1 | 13 | 52 | 67 | 23 | 2 | 0 | 0 | 0 | 0 | 159 |
| 9:00 | 0 | 0 | 2 | 4 | 24 | 73 | 90 | 17 | 1 | 0 | 0 | 0 | 0 | 211 |
| 10:00 | 1 | 0 | 0 | 2 | 29 | 90 | 118 | 19 | 0 | 0 | 0 | 0 | 0 | 259 |
| 11:00 | 3 | 0 | 0 | 2 | 24 | 135 | 110 | 26 | 6 | 1 | 0 | 0 | 0 | 307 |
| 12:00 PM | 0 | 0 | 0 | 3 | 9 | 108 | 143 | 36 | 5 | 0 | 0 | 0 | 0 | 304 |
| 1:00 | 0 | 0 | 0 | 1 | 20 | 169 | 127 | 29 | 2 | 0 | 1 | 0 | 0 | 349 |
| 2:00 | 0 | 0 | 0 | 3 | 16 | 129 | 156 | 38 | 6 | 0 | 0 | 1 | 0 | 349 |
| 3:00 | 0 | 0 | 0 | 3 | 49 | 143 | 143 | 30 | 1 | 0 | 0 | 0 | 0 | 369 |
| 4:00 | 1 | 0 | 0 | 1 | 14 | 105 | 172 | 38 | 7 | 0 | 0 | 0 | 0 | 338 |
| 5:00 | 0 | 0 | 0 | 0 | 17 | 91 | 139 | 23 | 5 | 1 | 0 | 0 | 0 | 276 |
| 6:00 | 0 | 0 | 0 | 1 | 8 | 69 | 69 | 22 | 2 | 0 | 0 | 0 | 0 | 171 |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 12 | 37 | 13 | 1 | 0 | 0 | 0 | 0 | 64 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 5 | 28 | 10 | 2 | 4 | 1 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 19 | 31 | 6 | 1 | 0 | 1 | 0 | 0 | 62 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 7 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 27 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 16 |
| Total | 6 | 1 | 3 | 26 | 239 | 1270 | 1519 | 371 | 46 | 7 | 4 | 1 | 0 | 3493 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 0 | 0 | 0 | 0 | 4 | 7 | 12 | 3 | 1 | 0 | 0 | 0 | 0 | 27 |
| 7:00 | 0 | 0 | 0 | 3 | 3 | 35 | 38 | 15 | 1 | 0 | 0 | 0 | 0 | 95 |
| 8:00 | 2 | 0 | 0 | 1 | 9 | 47 | 80 | 21 | 3 | 0 | 0 | 0 | 0 | 163 |
| 9:00 | 1 | 0 | 0 | 1 | 23 | 69 | 109 | 25 | 3 | 0 | 0 | 0 | 0 | 231 |
| 10:00 | 1 | 0 | 0 | 1 | 12 | 100 | 117 | 19 | 2 | 0 | 0 | 0 | 0 | 252 |
| 11:00 | 1 | 0 | 0 | 3 | 14 | 128 | 99 | 28 | 2 | 0 | 0 | 0 | 0 | 275 |
| 12:00 PM | 1 | 0 | 1 | 3 | 25 | 106 | 146 | 36 | 2 | 0 | 0 | 0 | 1 | 321 |
| 1:00 | 1 | 0 | 0 | 2 | 21 | 145 | 151 | 35 | 4 | 1 | 0 | 0 | 0 | 360 |
| 2:00 | 1 | 0 | 0 | 3 | 27 | 168 | 175 | 24 | 4 | 0 | 0 | 0 | 0 | 402 |
| 3:00 | 0 | 0 | 1 | 9 | 33 | 170 | 128 | 31 | 5 | 0 | 1 | 0 | 0 | 378 |
| 4:00 | 0 | 0 | 0 | 3 | 13 | 101 | 143 | 42 | 9 | 2 | 0 | 0 | 0 | 313 |
| 5:00 | 0 | 0 | 0 | 1 | 9 | 121 | 107 | 35 | 2 | 1 | 0 | 1 | 0 | 277 |
| 6:00 | 1 | 0 | 1 | 0 | 8 | 52 | 77 | 13 | 3 | 0 | 0 | 0 | 0 | 155 |
| 7:00 | 0 | 0 | 0 | 0 | 6 | 39 | 45 | 22 | 4 | 0 | 1 | 1 | 0 | 118 |
| 8:00 | 0 | 0 | 2 | 0 | 2 | 25 | 25 | 13 | 2 | 1 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 27 | 40 | 9 | 0 | 0 | 0 | 0 | 0 | 78 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 22 | 25 | 4 | 0 | 0 | 0 | 1 | 0 | 56 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 7 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 16 |
| Total | 9 | 1 | 5 | 32 | 215 | 1378 | 1546 | 380 | 49 | 6 | 2 | 3 | 1 | 3627 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 1 | 0 | 0 | 1 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 0 | 0 | 0 | 0 | 2 | 13 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 35 |
| 7:00 | 1 | 0 | 0 | 0 | 4 | 37 | 39 | 12 | 3 | 0 | 0 | 0 | 0 | 96 |
| 8:00 | 2 | 0 | 0 | 3 | 9 | 64 | 55 | 18 | 2 | 2 | 0 | 0 | 0 | 155 |
| 9:00 | 0 | 0 | 0 | 1 | 23 | 75 | 79 | 19 | 3 | 0 | 0 | 0 | 0 | 200 |
| 10:00 | 0 | 1 | 0 | 4 | 15 | 86 | 102 | 22 | 7 | 1 | 1 | 0 | 0 | 239 |
| 11:00 | 1 | 0 | 2 | 7 | 20 | 135 | 122 | 27 | 2 | 1 | 0 | 0 | 0 | 317 |
| 12:00 PM | 0 | 1 | 0 | 3 | 14 | 138 | 125 | 30 | 6 | 1 | 0 | 0 | 0 | 318 |
| 1:00 | 6 | 0 | 0 | 2 | 19 | 121 | 119 | 41 | 5 | 0 | 0 | 0 | 0 | 313 |
| 2:00 | 0 | 0 | 0 | 5 | 20 | 171 | 167 | 35 | 2 | 0 | 0 | 0 | 0 | 400 |
| 3:00 | 6 | 0 | 1 | 2 | 15 | 209 | 145 | 19 | 3 | 0 | 0 | 0 | 0 | 400 |
| 4:00 | 3 | 0 | 0 | 0 | 13 | 116 | 137 | 36 | 4 | 0 | 0 | 0 | 0 | 309 |
| 5:00 | 2 | 0 | 0 | 3 | 20 | 138 | 124 | 29 | 3 | 1 | 0 | 0 | 0 | 320 |
| 6:00 | 0 | 0 | 0 | 1 | 11 | 54 | 75 | 19 | 1 | 0 | 0 | 0 | 0 | 161 |
| 7:00 | 0 | 0 | 1 | 1 | 4 | 35 | 37 | 9 | 3 | 1 | 1 | 0 | 0 | 92 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 24 | 24 | 8 | 1 | 1 | 0 | 0 | 0 | 64 |
| 9:00 | 1 | 0 | 0 | 0 | 1 | 28 | 31 | 8 | 3 | 1 | 0 | 0 | 0 | 73 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 15 | 10 | 6 | 4 | 0 | 0 | 0 | 0 | 39 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 9 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 22 |
| Total | 22 | 3 | 4 | 32 | 202 | 1479 | 1427 | 345 | 54 | 9 | 2 | 0 | 0 | 3579 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 0 | 0 | 1 | 2 | 11 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 40 |
| 7:00 | 3 | 0 | 0 | 0 | 5 | 29 | 37 | 16 | 4 | 1 | 0 | 0 | 0 | 95 |
| 8:00 | 1 | 0 | 1 | 1 | 9 | 61 | 78 | 26 | 2 | 1 | 0 | 0 | 0 | 180 |
| 9:00 | 0 | 1 | 0 | 3 | 21 | 83 | 97 | 16 | 2 | 0 | 0 | 0 | 0 | 223 |
| 10:00 | 5 | 0 | 0 | 2 | 28 | 114 | 106 | 21 | 0 | 1 | 0 | 0 | 0 | 277 |
| 11:00 | 2 | 0 | 5 | 4 | 31 | 103 | 127 | 27 | 2 | 0 | 0 | 0 | 0 | 301 |
| 12:00 PM | 0 | 0 | 0 | 1 | 23 | 107 | 144 | 40 | 3 | 0 | 0 | 0 | 0 | 318 |
| 1:00 | 1 | 0 | 0 | 1 | 23 | 97 | 151 | 35 | 0 | 1 | 0 | 0 | 0 | 309 |
| 2:00 | 7 | 0 | 0 | 2 | 16 | 123 | 160 | 30 | 0 | 0 | 0 | 0 | 0 | 338 |
| 3:00 | 0 | 0 | 0 | 2 | 26 | 179 | 147 | 39 | 6 | 0 | 0 | 0 | 0 | 399 |
| 4:00 | 1 | 0 | 0 | 0 | 13 | 113 | 188 | 36 | 3 | 0 | 0 | 0 | 0 | 354 |
| 5:00 | 0 | 0 | 0 | 5 | 11 | 85 | 140 | 34 | 5 | 0 | 0 | 0 | 0 | 280 |
| 6:00 | 0 | 0 | 3 | 0 | 13 | 50 | 103 | 27 | 2 | 0 | 0 | 0 | 0 | 198 |
| 7:00 | 1 | 0 | 0 | 1 | 3 | 26 | 35 | 11 | 1 | 1 | 0 | 0 | 0 | 79 |
| 8:00 | 0 | 0 | 0 | 1 | 2 | 23 | 40 | 4 | 2 | 1 | 1 | 0 | 0 | 74 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 43 | 36 | 5 | 0 | 1 | 0 | 0 | 0 | 85 |
| 10:00 | 0 | 0 | 0 | 0 | 21 | 15 | 27 | 1 | 1 | 0 | 0 | 0 | 0 | 65 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 2 | 0 | 1 | 0 | 0 | 0 | 21 |
| Total | 21 | 1 | 9 | 24 | 248 | 1279 | 1668 | 382 | 33 | 8 | 1 | 0 | 0 | 3674 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 1 | 0 | 0 | 0 | 2 | 6 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 15 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 0 | 1 | 0 | 1 | 7 | 13 | 33 | 9 | 2 | 0 | 0 | 0 | 0 | 66 |
| 8:00 | 0 | 0 | 1 | 3 | 6 | 47 | 63 | 21 | 0 | 0 | 0 | 0 | 1 | 142 |
| 9:00 | 0 | 2 | 2 | 2 | 8 | 56 | 63 | 24 | 8 | 0 | 0 | 0 | 0 | 165 |
| 10:00 | 0 | 0 | 0 | 1 | 17 | 74 | 96 | 25 | 1 | 1 | 0 | 0 | 0 | 215 |
| 11:00 | 0 | 0 | 0 | 2 | 10 | 78 | 112 | 27 | 2 | 0 | 0 | 0 | 0 | 231 |
| 12:00 PM | 2 | 0 | 0 | 7 | 21 | 105 | 91 | 20 | 1 | 0 | 0 | 0 | 0 | 247 |
| 1:00 | 0 | 1 | 0 | 0 | 22 | 113 | 103 | 23 | 3 | 1 | 0 | 0 | 0 | 266 |
| 2:00 | 1 | 0 | 0 | 0 | 21 | 132 | 112 | 22 | 3 | 1 | 0 | 0 | 0 | 292 |
| 3:00 | 1 | 0 | 0 | 1 | 24 | 134 | 117 | 22 | 2 | 0 | 0 | 0 | 0 | 301 |
| 4:00 | 2 | 0 | 0 | 1 | 26 | 128 | 108 | 27 | 4 | 0 | 0 | 0 | 0 | 296 |
| 5:00 | 0 | 0 | 0 | 0 | 13 | 92 | 104 | 30 | 5 | 4 | 0 | 0 | 0 | 248 |
| 6:00 | 0 | 0 | 0 | 0 | 9 | 91 | 85 | 10 | 3 | 0 | 0 | 0 | 0 | 198 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 55 | 80 | 26 | 0 | 0 | 1 | 0 | 0 | 165 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 70 | 83 | 15 | 0 | 0 | 0 | 0 | 0 | 172 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 58 | 75 | 20 | 0 | 1 | 0 | 0 | 0 | 157 |
| 10:00 | 0 | 0 | 0 | 0 | 7 | 26 | 37 | 12 | 1 | 0 | 0 | 0 | 0 | 83 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 13 | 15 | 4 | 1 | 1 | 0 | 0 | 0 | 34 |
| Total | 7 | 4 | 3 | 18 | 206 | 1311 | 1399 | 346 | 38 | 10 | 1 | 0 | 1 | 3344 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 2 | 0 | 0 | 0 | 10 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 0 | 0 | 0 | 1 | 3 | 3 | 10 | 3 | 2 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 0 | 0 | 3 | 3 | 16 | 28 | 2 | 1 | 0 | 0 | 0 | 0 | 53 |
| 8:00 | 0 | 0 | 0 | 2 | 3 | 32 | 53 | 15 | 2 | 0 | 0 | 0 | 0 | 107 |
| 9:00 | 0 | 0 | 1 | 2 | 13 | 87 | 109 | 18 | 1 | 0 | 0 | 0 | 0 | 231 |
| 10:00 | 0 | 0 | 1 | 7 | 18 | 70 | 77 | 21 | 4 | 1 | 0 | 0 | 0 | 199 |
| 11:00 | 1 | 0 | 0 | 1 | 15 | 70 | 111 | 15 | 1 | 0 | 0 | 0 | 0 | 214 |
| 12:00 PM | 2 | 0 | 0 | 2 | 9 | 102 | 115 | 16 | 0 | 0 | 0 | 0 | 0 | 246 |
| 1:00 | 1 | 0 | 0 | 0 | 10 | 100 | 74 | 13 | 4 | 0 | 0 | 0 | 0 | 202 |
| 2:00 | 0 | 0 | 0 | 5 | 10 | 79 | 79 | 30 | 3 | 0 | 1 | 0 | 0 | 207 |
| 3:00 | 0 | 0 | 0 | 1 | 29 | 88 | 82 | 19 | 4 | 0 | 0 | 0 | 0 | 223 |
| 4:00 | 0 | 0 | 0 | 1 | 18 | 77 | 90 | 31 | 4 | 0 | 1 | 0 | 0 | 222 |
| 5:00 | 0 | 0 | 0 | 1 | 7 | 79 | 94 | 17 | 2 | 1 | 0 | 0 | 0 | 201 |
| 6:00 | 0 | 0 | 0 | 0 | 8 | 55 | 73 | 12 | 2 | 1 | 0 | 0 | 0 | 151 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 14 | 26 | 7 | 4 | 0 | 0 | 0 | 0 | 54 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 23 | 33 | 10 | 0 | 0 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 22 | 28 | 8 | 0 | 0 | 0 | 0 | 0 | 63 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 14 | 21 | 5 | 1 | 0 | 1 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 9 |
| Total | 4 | 0 | 2 | 26 | 159 | 940 | 1130 | 256 | 35 | 6 | 3 | 0 | 0 | 2561 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 6 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 16 |
| 6:00 | 0 | 0 | 0 | 1 | 3 | 8 | 13 | 4 | 2 | 0 | 0 | 0 | 0 | 31 |
| 7:00 | 0 | 0 | 0 | 1 | 5 | 26 | 43 | 14 | 3 | 0 | 0 | 0 | 0 | 92 |
| 8:00 | 2 | 0 | 1 | 3 | 9 | 65 | 61 | 17 | 3 | 0 | 0 | 0 | 0 | 161 |
| 9:00 | 0 | 0 | 0 | 1 | 13 | 75 | 79 | 26 | 2 | 0 | 0 | 0 | 0 | 196 |
| 10:00 | 4 | 1 | 2 | 5 | 40 | 116 | 83 | 23 | 1 | 0 | 0 | 0 | 0 | 275 |
| 11:00 | 1 | 0 | 0 | 6 | 21 | 131 | 102 | 7 | 2 | 0 | 0 | 0 | 0 | 270 |
| 12:00 PM | 1 | 0 | 0 | 6 | 41 | 154 | 99 | 18 | 3 | 0 | 0 | 0 | 0 | 322 |
| 1:00 | 1 | 0 | 2 | 4 | 41 | 150 | 111 | 17 | 3 | 1 | 0 | 0 | 1 | 331 |
| 2:00 | 3 | 0 | 1 | 13 | 36 | 200 | 107 | 11 | 0 | 2 | 0 | 0 | 0 | 373 |
| 3:00 | 1 | 0 | 0 | 3 | 34 | 196 | 145 | 20 | 3 | 0 | 0 | 0 | 0 | 402 |
| 4:00 | 0 | 0 | 0 | 2 | 11 | 101 | 143 | 39 | 9 | 1 | 0 | 0 | 0 | 306 |
| 5:00 | 0 | 0 | 0 | 6 | 22 | 97 | 117 | 20 | 5 | 0 | 0 | 0 | 0 | 267 |
| 6:00 | 0 | 0 | 0 | 0 | 12 | 58 | 67 | 12 | 2 | 0 | 0 | 0 | 0 | 151 |
| 7:00 | 0 | 0 | 0 | 1 | 1 | 13 | 27 | 12 | 1 | 0 | 0 | 0 | 0 | 55 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 5 | 19 | 5 | 1 | 0 | 0 | 1 | 0 | 33 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 24 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 56 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 12 | 16 | 7 | 0 | 0 | 0 | 0 | 0 | 35 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 13 | 1 | 6 | 52 | 296 | 1443 | 1282 | 265 | 40 | 4 | 0 | 1 | 1 | 3404 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Eastbound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 9 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 0 | 0 | 0 | 0 | 1 | 12 | 11 | 8 | 1 | 0 | 0 | 0 | 0 | 33 |
| 7:00 | 0 | 0 | 0 | 6 | 3 | 31 | 37 | 9 | 4 | 0 | 0 | 0 | 0 | 90 |
| 8:00 | 1 | 1 | 2 | 11 | 23 | 53 | 59 | 17 | 1 | 0 | 0 | 0 | 0 | 168 |
| 9:00 | 1 | 0 | 0 | 4 | 23 | 111 | 86 | 11 | 1 | 1 | 0 | 0 | 0 | 238 |
| 10:00 | 3 | 0 | 2 | 3 | 34 | 141 | 100 | 17 | 3 | 0 | 0 | 0 | 0 | 303 |
| 11:00 | 0 | 0 | 0 | 2 | 41 | 149 | 111 | 18 | 2 | 0 | 0 | 0 | 0 | 323 |
| 12:00 PM | 2 | 1 | 1 | 2 | 20 | 152 | 136 | 25 | 2 | 0 | 0 | 0 | 0 | 341 |
| 1:00 | 4 | 0 | 0 | 1 | 46 | 188 | 131 | 15 | 2 | 0 | 0 | 0 | 0 | 387 |
| 2:00 | 0 | 0 | 0 | 0 | 50 | 191 | 138 | 14 | 2 | 0 | 0 | 0 | 0 | 395 |
| 3:00 | 2 | 0 | 0 | 1 | 27 | 161 | 167 | 28 | 0 | 0 | 0 | 0 | 0 | 386 |
| 4:00 | 0 | 0 | 1 | 2 | 28 | 168 | 124 | 20 | 0 | 0 | 0 | 0 | 0 | 343 |
| 5:00 | 0 | 0 | 0 | 1 | 15 | 104 | 100 | 22 | 5 | 1 | 0 | 0 | 0 | 248 |
| 6:00 | 1 | 0 | 0 | 0 | 4 | 59 | 67 | 20 | 6 | 0 | 0 | 0 | 0 | 157 |
| 7:00 | 0 | 0 | 0 | 1 | 1 | 15 | 38 | 13 | 1 | 0 | 0 | 0 | 0 | 69 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 3 | 31 | 5 | 1 | 3 | 0 | 0 | 0 | 43 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 16 | 19 | 10 | 2 | 0 | 0 | 0 | 0 | 50 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 5 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 28 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 4 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 14 | 2 | 6 | 34 | 325 | 1578 | 1388 | 267 | 35 | 7 | 0 | 0 | 0 | 3656 |
| Grand Total | 255 | 54 | 104 | 680 | 5721 | 29051 | 27922 | 6728 | 1025 | 208 | 33 | 12 | 9 | 71802 |

| Stats | | |
|---|---|---|
| | Percentile | 15th | 50th | 85th | 95th |
| | Speed | 35 | 39 | 43 | 46 |
| Mean Speed (Average) | 40.5 | | | | |
| 10 MPH Pace Speed | 36-45 | | | | |
| Number in Pace | 56963 | | | | |
| Percent in Pace | 79.0% | | | | |
| Number > 35 MPH | 64988 | | | | |
| Percent > 35 MPH | 90.5% | | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 2 | 5 | 42 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 66 |
| 6:00 | 0 | 0 | 0 | 7 | 20 | 127 | 47 | 6 | 0 | 0 | 0 | 0 | 0 | 207 |
| 7:00 | 0 | 0 | 0 | 16 | 42 | 140 | 87 | 12 | 2 | 0 | 0 | 0 | 0 | 299 |
| 8:00 | 5 | 0 | 2 | 9 | 43 | 194 | 89 | 5 | 0 | 0 | 0 | 0 | 0 | 347 |
| 9:00 | 3 | 0 | 0 | 2 | 42 | 157 | 103 | 28 | 2 | 0 | 0 | 0 | 0 | 337 |
| 10:00 | 3 | 0 | 1 | 11 | 22 | 142 | 127 | 10 | 1 | 0 | 0 | 0 | 0 | 317 |
| 11:00 | 0 | 0 | 0 | 0 | 30 | 175 | 110 | 19 | 4 | 0 | 0 | 0 | 0 | 338 |
| 12:00 PM | 1 | 0 | 4 | 9 | 37 | 151 | 64 | 11 | 1 | 0 | 0 | 0 | 0 | 278 |
| 1:00 | 1 | 0 | 0 | 4 | 23 | 102 | 79 | 13 | 0 | 0 | 0 | 0 | 0 | 222 |
| 2:00 | 2 | 0 | 1 | 10 | 34 | 95 | 83 | 7 | 1 | 0 | 0 | 0 | 0 | 233 |
| 3:00 | 0 | 0 | 0 | 0 | 14 | 77 | 86 | 20 | 0 | 0 | 0 | 0 | 0 | 197 |
| 4:00 | 1 | 0 | 0 | 1 | 9 | 63 | 85 | 10 | 3 | 1 | 0 | 0 | 0 | 173 |
| 5:00 | 0 | 0 | 0 | 2 | 11 | 64 | 51 | 8 | 1 | 0 | 0 | 0 | 0 | 137 |
| 6:00 | 0 | 0 | 0 | 2 | 14 | 44 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 90 |
| 7:00 | 0 | 0 | 0 | 1 | 4 | 34 | 25 | 5 | 2 | 0 | 0 | 1 | 0 | 72 |
| 8:00 | 0 | 0 | 0 | 3 | 5 | 18 | 18 | 5 | 1 | 0 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 1 | 1 | 3 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 12 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 16 | 0 | 9 | 80 | 360 | 1660 | 1122 | 169 | 18 | 1 | 0 | 1 | 0 | 3436 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
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Direction: Westbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 29 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 0 | 3 | 25 | 139 | 54 | 5 | 1 | 0 | 0 | 0 | 0 | 227 |
| 7:00 | 0 | 0 | 1 | 3 | 45 | 155 | 92 | 5 | 1 | 0 | 0 | 0 | 0 | 302 |
| 8:00 | 0 | 0 | 1 | 9 | 34 | 175 | 123 | 18 | 0 | 0 | 0 | 0 | 0 | 360 |
| 9:00 | 5 | 3 | 14 | 10 | 36 | 182 | 120 | 9 | 2 | 0 | 0 | 0 | 0 | 381 |
| 10:00 | 0 | 0 | 0 | 1 | 33 | 150 | 111 | 16 | 1 | 0 | 0 | 0 | 0 | 312 |
| 11:00 | 3 | 0 | 0 | 3 | 47 | 145 | 89 | 11 | 2 | 0 | 0 | 0 | 0 | 300 |
| 12:00 PM | 2 | 0 | 0 | 7 | 27 | 114 | 102 | 23 | 0 | 0 | 0 | 0 | 0 | 275 |
| 1:00 | 0 | 0 | 0 | 3 | 34 | 101 | 93 | 8 | 1 | 0 | 0 | 0 | 1 | 241 |
| 2:00 | 6 | 0 | 0 | 3 | 17 | 122 | 65 | 14 | 2 | 0 | 0 | 0 | 0 | 229 |
| 3:00 | 2 | 0 | 2 | 6 | 22 | 87 | 63 | 16 | 1 | 0 | 0 | 0 | 0 | 199 |
| 4:00 | 1 | 0 | 0 | 0 | 16 | 94 | 72 | 8 | 0 | 0 | 0 | 0 | 0 | 191 |
| 5:00 | 0 | 0 | 0 | 5 | 14 | 62 | 56 | 13 | 0 | 0 | 0 | 0 | 0 | 150 |
| 6:00 | 0 | 0 | 0 | 2 | 13 | 42 | 28 | 1 | 1 | 0 | 0 | 0 | 0 | 87 |
| 7:00 | 0 | 0 | 0 | 3 | 4 | 42 | 33 | 4 | 2 | 0 | 0 | 0 | 0 | 88 |
| 8:00 | 1 | 0 | 0 | 0 | 6 | 23 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 9:00 | 0 | 0 | 0 | 1 | 8 | 18 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 40 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 4 | 10 | 2 | 1 | 1 | 0 | 0 | 0 | 21 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 20 | 3 | 18 | 60 | 385 | 1695 | 1175 | 161 | 15 | 1 | 0 | 0 | 1 | 3534 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 1 | 0 | 30 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 56 |
| 6:00 | 0 | 0 | 0 | 1 | 23 | 125 | 33 | 6 | 0 | 0 | 0 | 0 | 0 | 188 |
| 7:00 | 0 | 0 | 0 | 0 | 36 | 172 | 102 | 8 | 0 | 0 | 0 | 0 | 0 | 318 |
| 8:00 | 0 | 0 | 0 | 10 | 54 | 162 | 86 | 12 | 0 | 0 | 0 | 0 | 0 | 324 |
| 9:00 | 3 | 1 | 3 | 5 | 53 | 173 | 89 | 10 | 0 | 0 | 0 | 0 | 0 | 337 |
| 10:00 | 0 | 0 | 6 | 11 | 41 | 132 | 78 | 16 | 3 | 1 | 0 | 0 | 0 | 288 |
| 11:00 | 1 | 0 | 1 | 12 | 56 | 147 | 91 | 8 | 1 | 0 | 0 | 0 | 0 | 317 |
| 12:00 PM | 1 | 0 | 1 | 8 | 39 | 144 | 104 | 14 | 1 | 0 | 0 | 0 | 0 | 312 |
| 1:00 | 0 | 0 | 1 | 8 | 13 | 115 | 76 | 11 | 3 | 1 | 0 | 0 | 0 | 228 |
| 2:00 | 1 | 2 | 11 | 9 | 35 | 105 | 60 | 9 | 1 | 0 | 0 | 0 | 0 | 233 |
| 3:00 | 1 | 0 | 0 | 5 | 11 | 86 | 81 | 19 | 1 | 0 | 0 | 0 | 0 | 204 |
| 4:00 | 0 | 0 | 0 | 4 | 16 | 100 | 97 | 21 | 2 | 0 | 0 | 0 | 0 | 240 |
| 5:00 | 0 | 0 | 0 | 1 | 11 | 75 | 54 | 11 | 2 | 0 | 0 | 0 | 0 | 154 |
| 6:00 | 0 | 0 | 2 | 6 | 12 | 40 | 37 | 5 | 1 | 0 | 0 | 0 | 0 | 103 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 43 | 43 | 6 | 1 | 0 | 0 | 0 | 0 | 97 |
| 8:00 | 0 | 0 | 0 | 1 | 4 | 34 | 20 | 4 | 0 | 0 | 0 | 0 | 0 | 63 |
| 9:00 | 0 | 0 | 0 | 0 | 3 | 16 | 15 | 4 | 3 | 0 | 0 | 0 | 0 | 41 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 3 | 19 | 1 | 1 | 0 | 0 | 0 | 0 | 27 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 8 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 19 |
| Total | 7 | 3 | 25 | 82 | 419 | 1720 | 1118 | 170 | 21 | 2 | 0 | 0 | 0 | 3567 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 3 | 2 | 1 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 28 | 19 | 4 | 1 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 0 | 2 | 11 | 72 | 38 | 2 | 0 | 1 | 0 | 0 | 0 | 126 |
| 7:00 | 0 | 0 | 1 | 0 | 30 | 75 | 73 | 12 | 2 | 0 | 0 | 0 | 0 | 193 |
| 8:00 | 0 | 0 | 1 | 0 | 32 | 94 | 71 | 16 | 1 | 0 | 0 | 0 | 0 | 215 |
| 9:00 | 0 | 0 | 0 | 0 | 25 | 123 | 85 | 15 | 0 | 0 | 0 | 0 | 0 | 248 |
| 10:00 | 3 | 0 | 4 | 8 | 23 | 120 | 83 | 11 | 0 | 0 | 0 | 0 | 0 | 252 |
| 11:00 | 2 | 0 | 0 | 0 | 22 | 101 | 83 | 11 | 1 | 0 | 0 | 0 | 0 | 220 |
| 12:00 PM | 1 | 0 | 0 | 14 | 50 | 88 | 94 | 22 | 0 | 0 | 0 | 0 | 0 | 269 |
| 1:00 | 3 | 0 | 0 | 9 | 45 | 119 | 65 | 14 | 2 | 0 | 0 | 0 | 0 | 257 |
| 2:00 | 4 | 0 | 0 | 2 | 29 | 101 | 100 | 10 | 0 | 0 | 0 | 0 | 0 | 246 |
| 3:00 | 0 | 0 | 0 | 0 | 13 | 119 | 83 | 13 | 1 | 0 | 0 | 0 | 0 | 229 |
| 4:00 | 0 | 0 | 2 | 4 | 14 | 120 | 72 | 11 | 0 | 1 | 0 | 0 | 0 | 224 |
| 5:00 | 0 | 0 | 0 | 1 | 9 | 89 | 68 | 15 | 3 | 0 | 0 | 0 | 0 | 185 |
| 6:00 | 1 | 0 | 0 | 0 | 6 | 65 | 49 | 11 | 0 | 0 | 0 | 0 | 0 | 132 |
| 7:00 | 0 | 0 | 1 | 4 | 15 | 45 | 29 | 7 | 1 | 0 | 0 | 0 | 0 | 102 |
| 8:00 | 0 | 0 | 0 | 0 | 6 | 57 | 38 | 4 | 0 | 0 | 0 | 0 | 0 | 105 |
| 9:00 | 0 | 0 | 0 | 0 | 9 | 19 | 15 | 3 | 2 | 1 | 0 | 0 | 0 | 49 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 7 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 12 |
| Total | 14 | 0 | 9 | 44 | 345 | 1454 | 1094 | 188 | 20 | 5 | 0 | 0 | 0 | 3173 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 25 | 18 | 4 | 1 | 0 | 0 | 0 | 0 | 50 |
| 6:00 | 0 | 1 | 0 | 0 | 4 | 34 | 25 | 2 | 2 | 0 | 0 | 0 | 0 | 68 |
| 7:00 | 0 | 0 | 0 | 0 | 2 | 27 | 49 | 7 | 4 | 0 | 0 | 0 | 0 | 89 |
| 8:00 | 1 | 1 | 0 | 0 | 7 | 59 | 60 | 10 | 1 | 1 | 0 | 0 | 0 | 140 |
| 9:00 | 1 | 0 | 3 | 3 | 22 | 77 | 63 | 20 | 1 | 0 | 0 | 0 | 0 | 190 |
| 10:00 | 0 | 0 | 0 | 6 | 33 | 143 | 81 | 12 | 2 | 0 | 0 | 0 | 0 | 277 |
| 11:00 | 0 | 0 | 0 | 2 | 36 | 156 | 90 | 9 | 2 | 0 | 0 | 0 | 1 | 296 |
| 12:00 PM | 1 | 0 | 1 | 6 | 16 | 131 | 102 | 11 | 1 | 0 | 1 | 0 | 0 | 270 |
| 1:00 | 1 | 0 | 0 | 5 | 39 | 155 | 78 | 13 | 1 | 0 | 0 | 0 | 1 | 293 |
| 2:00 | 1 | 0 | 0 | 0 | 16 | 113 | 73 | 21 | 0 | 0 | 0 | 0 | 0 | 224 |
| 3:00 | 0 | 0 | 2 | 2 | 8 | 81 | 75 | 14 | 1 | 0 | 0 | 0 | 0 | 183 |
| 4:00 | 2 | 0 | 4 | 3 | 13 | 81 | 62 | 12 | 3 | 0 | 0 | 0 | 0 | 180 |
| 5:00 | 0 | 0 | 0 | 2 | 7 | 53 | 62 | 11 | 0 | 0 | 0 | 0 | 0 | 135 |
| 6:00 | 0 | 0 | 0 | 1 | 11 | 43 | 25 | 3 | 2 | 0 | 0 | 0 | 0 | 85 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 25 | 31 | 0 | 1 | 0 | 0 | 0 | 0 | 62 |
| 8:00 | 0 | 0 | 0 | 1 | 10 | 33 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 9:00 | 0 | 0 | 1 | 1 | 8 | 15 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 34 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 16 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 7 | 2 | 11 | 34 | 239 | 1271 | 932 | 164 | 22 | 2 | 1 | 0 | 2 | 2687 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 1 | 4 | 39 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 4 | 32 | 116 | 44 | 4 | 1 | 0 | 0 | 0 | 1 | 202 |
| 7:00 | 0 | 0 | 2 | 2 | 39 | 158 | 79 | 9 | 1 | 1 | 0 | 0 | 0 | 291 |
| 8:00 | 0 | 0 | 1 | 3 | 48 | 208 | 95 | 5 | 0 | 0 | 0 | 0 | 0 | 360 |
| 9:00 | 0 | 2 | 6 | 13 | 49 | 157 | 72 | 14 | 1 | 0 | 0 | 0 | 0 | 314 |
| 10:00 | 0 | 0 | 3 | 5 | 58 | 147 | 107 | 15 | 2 | 0 | 0 | 0 | 0 | 337 |
| 11:00 | 0 | 0 | 1 | 2 | 54 | 144 | 96 | 14 | 2 | 0 | 1 | 0 | 0 | 314 |
| 12:00 PM | 3 | 0 | 0 | 11 | 33 | 158 | 69 | 9 | 1 | 0 | 0 | 0 | 0 | 284 |
| 1:00 | 2 | 0 | 3 | 5 | 33 | 149 | 73 | 13 | 0 | 0 | 0 | 0 | 0 | 278 |
| 2:00 | 0 | 2 | 1 | 9 | 26 | 118 | 81 | 15 | 0 | 0 | 0 | 0 | 0 | 252 |
| 3:00 | 5 | 0 | 2 | 2 | 21 | 100 | 75 | 11 | 1 | 0 | 0 | 0 | 0 | 217 |
| 4:00 | 0 | 0 | 2 | 3 | 22 | 85 | 80 | 15 | 0 | 0 | 0 | 0 | 0 | 207 |
| 5:00 | 1 | 0 | 2 | 3 | 14 | 76 | 73 | 6 | 1 | 0 | 0 | 0 | 0 | 176 |
| 6:00 | 0 | 0 | 0 | 1 | 7 | 57 | 38 | 6 | 0 | 0 | 1 | 0 | 0 | 110 |
| 7:00 | 0 | 0 | 0 | 3 | 5 | 55 | 29 | 7 | 1 | 0 | 0 | 0 | 0 | 100 |
| 8:00 | 0 | 0 | 0 | 1 | 8 | 38 | 28 | 4 | 1 | 0 | 0 | 0 | 0 | 80 |
| 9:00 | 0 | 0 | 0 | 1 | 3 | 13 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 35 |
| 10:00 | 0 | 0 | 0 | 1 | 1 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 2 | 1 | 1 | 0 | 0 | 0 | 13 |
| Total | 11 | 4 | 23 | 70 | 458 | 1850 | 1087 | 156 | 13 | 3 | 2 | 0 | 1 | 3678 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 26 | 25 | 6 | 1 | 0 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 1 | 36 | 148 | 41 | 4 | 0 | 1 | 0 | 0 | 0 | 231 |
| 7:00 | 1 | 0 | 0 | 3 | 26 | 201 | 99 | 10 | 1 | 1 | 0 | 0 | 0 | 342 |
| 8:00 | 3 | 1 | 4 | 10 | 38 | 223 | 106 | 13 | 1 | 0 | 0 | 0 | 0 | 399 |
| 9:00 | 1 | 1 | 6 | 7 | 40 | 219 | 92 | 18 | 0 | 0 | 0 | 0 | 0 | 384 |
| 10:00 | 4 | 0 | 1 | 7 | 43 | 189 | 96 | 21 | 3 | 0 | 0 | 0 | 0 | 364 |
| 11:00 | 2 | 1 | 6 | 16 | 67 | 179 | 99 | 11 | 1 | 0 | 0 | 0 | 0 | 382 |
| 12:00 PM | 3 | 0 | 0 | 5 | 42 | 152 | 124 | 6 | 1 | 0 | 0 | 0 | 0 | 333 |
| 1:00 | 0 | 0 | 1 | 6 | 31 | 137 | 80 | 11 | 2 | 0 | 0 | 0 | 0 | 268 |
| 2:00 | 5 | 0 | 1 | 2 | 33 | 83 | 83 | 12 | 1 | 0 | 0 | 0 | 0 | 220 |
| 3:00 | 3 | 0 | 1 | 5 | 23 | 113 | 79 | 13 | 1 | 0 | 0 | 0 | 0 | 238 |
| 4:00 | 0 | 0 | 1 | 3 | 25 | 116 | 79 | 16 | 0 | 0 | 1 | 0 | 0 | 241 |
| 5:00 | 1 | 0 | 1 | 2 | 27 | 85 | 64 | 18 | 0 | 0 | 0 | 0 | 0 | 198 |
| 6:00 | 0 | 0 | 1 | 5 | 13 | 55 | 48 | 6 | 2 | 0 | 0 | 0 | 0 | 130 |
| 7:00 | 0 | 1 | 1 | 1 | 3 | 30 | 29 | 5 | 2 | 0 | 0 | 0 | 0 | 72 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 34 | 27 | 6 | 0 | 0 | 0 | 0 | 0 | 74 |
| 9:00 | 0 | 0 | 0 | 1 | 4 | 22 | 13 | 3 | 1 | 0 | 0 | 0 | 0 | 44 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 14 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 24 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 23 | 4 | 24 | 75 | 464 | 2041 | 1209 | 183 | 17 | 2 | 1 | 0 | 0 | 4043 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 33 | 24 | 5 | 1 | 0 | 0 | 0 | 0 | 66 |
| 6:00 | 0 | 0 | 0 | 4 | 29 | 107 | 47 | 3 | 1 | 0 | 0 | 0 | 0 | 191 |
| 7:00 | 0 | 0 | 0 | 8 | 47 | 166 | 89 | 17 | 0 | 0 | 0 | 0 | 0 | 327 |
| 8:00 | 2 | 0 | 1 | 8 | 50 | 179 | 79 | 14 | 2 | 0 | 0 | 0 | 0 | 335 |
| 9:00 | 0 | 4 | 6 | 6 | 52 | 153 | 92 | 8 | 0 | 0 | 0 | 0 | 0 | 321 |
| 10:00 | 4 | 0 | 2 | 4 | 29 | 139 | 114 | 19 | 0 | 0 | 0 | 0 | 0 | 311 |
| 11:00 | 1 | 0 | 0 | 2 | 45 | 144 | 102 | 23 | 0 | 1 | 0 | 0 | 0 | 318 |
| 12:00 PM | 4 | 0 | 1 | 6 | 34 | 135 | 103 | 29 | 2 | 0 | 0 | 0 | 0 | 314 |
| 1:00 | 3 | 5 | 5 | 14 | 30 | 132 | 83 | 20 | 1 | 0 | 0 | 0 | 0 | 293 |
| 2:00 | 0 | 0 | 0 | 4 | 45 | 104 | 86 | 5 | 0 | 0 | 0 | 0 | 0 | 244 |
| 3:00 | 3 | 0 | 4 | 7 | 17 | 91 | 97 | 23 | 3 | 0 | 0 | 0 | 0 | 245 |
| 4:00 | 3 | 0 | 0 | 1 | 17 | 72 | 93 | 22 | 0 | 0 | 0 | 0 | 0 | 208 |
| 5:00 | 1 | 0 | 1 | 4 | 19 | 71 | 48 | 10 | 1 | 1 | 0 | 0 | 0 | 156 |
| 6:00 | 0 | 0 | 0 | 2 | 16 | 59 | 42 | 4 | 0 | 0 | 0 | 0 | 0 | 123 |
| 7:00 | 0 | 0 | 0 | 4 | 8 | 30 | 34 | 6 | 1 | 0 | 0 | 0 | 0 | 83 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 48 | 26 | 5 | 2 | 0 | 0 | 0 | 0 | 86 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 19 | 20 | 2 | 1 | 0 | 0 | 0 | 0 | 46 |
| 10:00 | 0 | 0 | 0 | 1 | 4 | 11 | 13 | 5 | 2 | 0 | 0 | 0 | 0 | 36 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 21 | 9 | 20 | 76 | 457 | 1703 | 1204 | 226 | 18 | 2 | 0 | 0 | 0 | 3736 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 19 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 0 | 0 | 0 | 1 | 7 | 46 | 39 | 2 | 0 | 0 | 0 | 0 | 0 | 95 |
| 7:00 | 0 | 0 | 0 | 0 | 4 | 42 | 57 | 11 | 2 | 0 | 0 | 0 | 0 | 116 |
| 8:00 | 0 | 3 | 1 | 0 | 7 | 60 | 39 | 8 | 2 | 1 | 0 | 0 | 0 | 121 |
| 9:00 | 0 | 0 | 0 | 0 | 18 | 67 | 54 | 10 | 2 | 0 | 0 | 0 | 0 | 151 |
| 10:00 | 1 | 0 | 0 | 1 | 17 | 61 | 85 | 9 | 3 | 0 | 0 | 0 | 0 | 177 |
| 11:00 | 0 | 0 | 0 | 0 | 18 | 101 | 68 | 17 | 0 | 0 | 0 | 0 | 0 | 204 |
| 12:00 PM | 0 | 0 | 1 | 4 | 17 | 122 | 76 | 14 | 2 | 1 | 0 | 0 | 0 | 237 |
| 1:00 | 0 | 0 | 0 | 2 | 11 | 74 | 60 | 13 | 0 | 0 | 0 | 0 | 0 | 160 |
| 2:00 | 0 | 0 | 0 | 1 | 13 | 88 | 68 | 14 | 2 | 0 | 0 | 0 | 0 | 186 |
| 3:00 | 1 | 0 | 0 | 1 | 18 | 51 | 35 | 9 | 1 | 0 | 0 | 0 | 0 | 116 |
| 4:00 | 0 | 0 | 3 | 3 | 12 | 61 | 41 | 8 | 1 | 1 | 0 | 0 | 0 | 130 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 42 | 32 | 5 | 1 | 0 | 0 | 0 | 0 | 83 |
| 6:00 | 0 | 0 | 0 | 4 | 8 | 31 | 18 | 7 | 1 | 0 | 0 | 0 | 0 | 69 |
| 7:00 | 0 | 0 | 1 | 1 | 3 | 13 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 31 |
| 8:00 | 0 | 0 | 0 | 1 | 2 | 20 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 38 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 6 | 10 | 4 | 2 | 1 | 0 | 0 | 0 | 25 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 2 | 3 | 6 | 21 | 162 | 924 | 732 | 144 | 21 | 5 | 1 | 0 | 0 | 2021 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 1 | 4 | 27 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 50 |
| 6:00 | 0 | 0 | 0 | 1 | 13 | 68 | 37 | 1 | 1 | 0 | 0 | 0 | 0 | 121 |
| 7:00 | 0 | 0 | 2 | 2 | 20 | 78 | 68 | 8 | 1 | 0 | 0 | 1 | 0 | 180 |
| 8:00 | 0 | 0 | 0 | 2 | 34 | 125 | 59 | 6 | 2 | 0 | 0 | 0 | 0 | 228 |
| 9:00 | 0 | 0 | 1 | 7 | 22 | 119 | 76 | 10 | 3 | 0 | 0 | 0 | 0 | 238 |
| 10:00 | 3 | 0 | 0 | 5 | 29 | 94 | 85 | 26 | 2 | 0 | 0 | 0 | 0 | 244 |
| 11:00 | 0 | 0 | 0 | 0 | 21 | 149 | 117 | 21 | 1 | 0 | 0 | 0 | 0 | 309 |
| 12:00 PM | 9 | 2 | 28 | 6 | 38 | 140 | 110 | 9 | 0 | 1 | 0 | 0 | 0 | 343 |
| 1:00 | 0 | 1 | 4 | 10 | 30 | 131 | 120 | 15 | 1 | 0 | 0 | 0 | 0 | 312 |
| 2:00 | 1 | 0 | 0 | 16 | 46 | 154 | 91 | 16 | 1 | 1 | 1 | 0 | 0 | 327 |
| 3:00 | 4 | 0 | 0 | 1 | 28 | 135 | 101 | 17 | 0 | 0 | 0 | 0 | 0 | 286 |
| 4:00 | 0 | 0 | 0 | 1 | 17 | 169 | 131 | 16 | 1 | 0 | 0 | 1 | 1 | 337 |
| 5:00 | 2 | 0 | 3 | 0 | 24 | 91 | 93 | 21 | 2 | 0 | 0 | 0 | 0 | 236 |
| 6:00 | 0 | 0 | 3 | 3 | 23 | 76 | 31 | 8 | 1 | 0 | 0 | 0 | 0 | 145 |
| 7:00 | 1 | 0 | 0 | 1 | 6 | 40 | 30 | 3 | 2 | 0 | 0 | 0 | 0 | 83 |
| 8:00 | 1 | 0 | 0 | 0 | 3 | 27 | 30 | 4 | 3 | 0 | 0 | 0 | 0 | 68 |
| 9:00 | 0 | 0 | 0 | 1 | 11 | 21 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 47 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 3 | 0 | 1 | 0 | 1 | 0 | 19 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 21 | 3 | 41 | 58 | 371 | 1657 | 1223 | 187 | 21 | 3 | 1 | 3 | 1 | 3590 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 19 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 42 |
| 6:00 | 1 | 0 | 0 | 0 | 6 | 43 | 25 | 3 | 0 | 0 | 0 | 0 | 0 | 78 |
| 7:00 | 0 | 0 | 0 | 0 | 8 | 53 | 58 | 17 | 2 | 0 | 0 | 0 | 0 | 138 |
| 8:00 | 0 | 0 | 0 | 0 | 23 | 67 | 70 | 10 | 2 | 2 | 0 | 0 | 0 | 174 |
| 9:00 | 0 | 0 | 0 | 1 | 23 | 108 | 83 | 12 | 1 | 0 | 1 | 0 | 0 | 229 |
| 10:00 | 1 | 0 | 0 | 1 | 19 | 116 | 71 | 4 | 2 | 0 | 0 | 0 | 0 | 214 |
| 11:00 | 0 | 0 | 0 | 0 | 19 | 109 | 113 | 21 | 2 | 0 | 0 | 0 | 0 | 264 |
| 12:00 PM | 1 | 0 | 0 | 2 | 26 | 140 | 121 | 27 | 2 | 0 | 0 | 0 | 0 | 319 |
| 1:00 | 7 | 1 | 3 | 1 | 32 | 120 | 76 | 16 | 0 | 0 | 0 | 0 | 0 | 256 |
| 2:00 | 0 | 0 | 0 | 5 | 45 | 105 | 73 | 16 | 0 | 0 | 0 | 0 | 0 | 244 |
| 3:00 | 1 | 0 | 10 | 2 | 20 | 77 | 80 | 15 | 2 | 0 | 0 | 0 | 0 | 207 |
| 4:00 | 1 | 0 | 0 | 1 | 14 | 80 | 89 | 16 | 0 | 0 | 0 | 0 | 0 | 201 |
| 5:00 | 0 | 0 | 1 | 4 | 17 | 71 | 65 | 9 | 2 | 0 | 0 | 0 | 0 | 169 |
| 6:00 | 1 | 0 | 0 | 1 | 20 | 52 | 29 | 4 | 3 | 0 | 0 | 0 | 0 | 110 |
| 7:00 | 0 | 0 | 1 | 5 | 12 | 43 | 25 | 1 | 1 | 0 | 0 | 0 | 0 | 88 |
| 8:00 | 0 | 0 | 0 | 2 | 6 | 23 | 37 | 2 | 0 | 0 | 0 | 0 | 0 | 70 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 24 | 16 | 4 | 2 | 0 | 0 | 0 | 0 | 50 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 20 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 9 |
| Total | 13 | 1 | 15 | 25 | 299 | 1269 | 1065 | 187 | 22 | 2 | 1 | 0 | 0 | 2899 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 18 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 40 |
| 6:00 | 0 | 0 | 0 | 1 | 0 | 20 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 55 |
| 7:00 | 0 | 0 | 0 | 1 | 2 | 32 | 51 | 13 | 1 | 0 | 0 | 0 | 0 | 100 |
| 8:00 | 0 | 0 | 0 | 0 | 5 | 45 | 52 | 12 | 1 | 0 | 0 | 0 | 0 | 115 |
| 9:00 | 1 | 0 | 0 | 2 | 10 | 65 | 65 | 12 | 1 | 0 | 0 | 0 | 0 | 156 |
| 10:00 | 0 | 0 | 0 | 3 | 17 | 107 | 91 | 16 | 1 | 0 | 0 | 0 | 0 | 235 |
| 11:00 | 0 | 0 | 1 | 3 | 26 | 131 | 90 | 12 | 1 | 0 | 0 | 0 | 0 | 264 |
| 12:00 PM | 0 | 0 | 0 | 1 | 16 | 115 | 77 | 26 | 3 | 0 | 1 | 0 | 0 | 239 |
| 1:00 | 2 | 0 | 0 | 1 | 11 | 109 | 82 | 14 | 1 | 0 | 0 | 0 | 0 | 220 |
| 2:00 | 0 | 0 | 0 | 3 | 23 | 80 | 83 | 9 | 0 | 0 | 0 | 0 | 0 | 198 |
| 3:00 | 3 | 1 | 7 | 0 | 11 | 69 | 46 | 11 | 1 | 1 | 0 | 0 | 0 | 150 |
| 4:00 | 1 | 0 | 1 | 2 | 11 | 55 | 53 | 9 | 1 | 1 | 0 | 0 | 0 | 134 |
| 5:00 | 0 | 0 | 0 | 1 | 16 | 66 | 29 | 9 | 1 | 0 | 0 | 0 | 0 | 122 |
| 6:00 | 0 | 0 | 0 | 1 | 12 | 36 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 74 |
| 7:00 | 0 | 0 | 0 | 0 | 13 | 33 | 31 | 4 | 1 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 0 | 1 | 0 | 2 | 17 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 42 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 10 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 18 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 7 | 1 | 11 | 20 | 182 | 1025 | 855 | 168 | 15 | 2 | 1 | 0 | 0 | 2287 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 20 | 21 | 1 | 0 | 1 | 0 | 0 | 0 | 49 |
| 6:00 | 0 | 0 | 0 | 2 | 23 | 113 | 47 | 4 | 0 | 0 | 0 | 0 | 0 | 189 |
| 7:00 | 1 | 0 | 0 | 2 | 36 | 183 | 74 | 9 | 0 | 0 | 0 | 0 | 0 | 305 |
| 8:00 | 0 | 1 | 5 | 14 | 75 | 186 | 52 | 4 | 2 | 0 | 0 | 0 | 0 | 339 |
| 9:00 | 2 | 5 | 1 | 6 | 69 | 142 | 65 | 8 | 1 | 0 | 0 | 0 | 0 | 299 |
| 10:00 | 0 | 0 | 0 | 2 | 46 | 126 | 83 | 10 | 0 | 0 | 0 | 0 | 0 | 267 |
| 11:00 | 2 | 0 | 0 | 3 | 33 | 137 | 74 | 14 | 0 | 0 | 0 | 0 | 0 | 263 |
| 12:00 PM | 0 | 0 | 2 | 4 | 35 | 139 | 76 | 16 | 2 | 0 | 0 | 0 | 0 | 274 |
| 1:00 | 0 | 0 | 1 | 5 | 32 | 148 | 67 | 5 | 2 | 1 | 0 | 0 | 0 | 261 |
| 2:00 | 2 | 0 | 1 | 2 | 24 | 98 | 74 | 8 | 1 | 0 | 0 | 0 | 0 | 210 |
| 3:00 | 2 | 0 | 1 | 3 | 14 | 64 | 73 | 8 | 0 | 0 | 1 | 0 | 0 | 166 |
| 4:00 | 0 | 0 | 1 | 4 | 12 | 68 | 55 | 13 | 1 | 1 | 1 | 0 | 0 | 156 |
| 5:00 | 1 | 0 | 0 | 1 | 16 | 61 | 35 | 9 | 0 | 0 | 0 | 0 | 0 | 123 |
| 6:00 | 1 | 0 | 1 | 1 | 12 | 46 | 32 | 2 | 0 | 0 | 0 | 0 | 0 | 95 |
| 7:00 | 0 | 0 | 0 | 4 | 9 | 24 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 63 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 19 | 28 | 6 | 0 | 1 | 0 | 0 | 0 | 57 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 14 | 12 | 5 | 2 | 0 | 0 | 0 | 0 | 33 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 11 | 6 | 13 | 54 | 445 | 1607 | 894 | 131 | 11 | 4 | 2 | 0 | 0 | 3178 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 1 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 8 | 33 | 17 | 2 | 1 | 0 | 0 | 0 | 0 | 61 |
| 6:00 | 0 | 0 | 0 | 0 | 27 | 130 | 43 | 4 | 1 | 0 | 0 | 0 | 0 | 205 |
| 7:00 | 1 | 0 | 0 | 13 | 64 | 149 | 71 | 7 | 0 | 0 | 0 | 0 | 0 | 305 |
| 8:00 | 1 | 0 | 4 | 20 | 69 | 180 | 62 | 6 | 0 | 0 | 0 | 0 | 0 | 342 |
| 9:00 | 0 | 0 | 2 | 6 | 56 | 186 | 53 | 15 | 1 | 0 | 0 | 0 | 0 | 319 |
| 10:00 | 2 | 0 | 0 | 17 | 54 | 160 | 81 | 10 | 0 | 0 | 0 | 0 | 0 | 324 |
| 11:00 | 3 | 0 | 0 | 3 | 46 | 144 | 83 | 12 | 0 | 0 | 0 | 0 | 0 | 291 |
| 12:00 PM | 1 | 0 | 1 | 0 | 39 | 145 | 76 | 8 | 1 | 0 | 0 | 0 | 0 | 271 |
| 1:00 | 1 | 0 | 0 | 8 | 31 | 91 | 78 | 13 | 0 | 1 | 0 | 0 | 0 | 223 |
| 2:00 | 1 | 0 | 2 | 4 | 13 | 103 | 82 | 15 | 0 | 0 | 0 | 0 | 0 | 220 |
| 3:00 | 2 | 0 | 0 | 3 | 21 | 74 | 77 | 19 | 3 | 0 | 0 | 0 | 0 | 199 |
| 4:00 | 1 | 0 | 0 | 0 | 19 | 72 | 72 | 14 | 2 | 0 | 0 | 0 | 0 | 180 |
| 5:00 | 0 | 0 | 0 | 7 | 15 | 49 | 38 | 5 | 0 | 0 | 0 | 0 | 0 | 114 |
| 6:00 | 1 | 0 | 0 | 6 | 10 | 50 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 104 |
| 7:00 | 0 | 0 | 0 | 1 | 7 | 31 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 63 |
| 8:00 | 0 | 0 | 0 | 0 | 11 | 29 | 20 | 4 | 1 | 0 | 0 | 0 | 0 | 65 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 10 | 12 | 2 | 0 | 1 | 0 | 0 | 0 | 27 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 14 | 0 | 10 | 88 | 492 | 1656 | 938 | 148 | 12 | 2 | 0 | 0 | 0 | 3360 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 36 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 74 |
| 6:00 | 0 | 0 | 1 | 17 | 38 | 105 | 35 | 2 | 1 | 0 | 0 | 0 | 0 | 199 |
| 7:00 | 0 | 0 | 9 | 7 | 48 | 171 | 93 | 9 | 2 | 0 | 0 | 0 | 0 | 339 |
| 8:00 | 2 | 0 | 0 | 3 | 66 | 183 | 72 | 8 | 0 | 0 | 0 | 0 | 0 | 334 |
| 9:00 | 0 | 0 | 0 | 8 | 55 | 169 | 84 | 10 | 0 | 0 | 0 | 0 | 0 | 326 |
| 10:00 | 3 | 0 | 5 | 8 | 43 | 147 | 95 | 8 | 1 | 0 | 0 | 0 | 0 | 310 |
| 11:00 | 3 | 0 | 0 | 8 | 42 | 187 | 62 | 4 | 1 | 0 | 0 | 0 | 0 | 307 |
| 12:00 PM | 2 | 0 | 2 | 4 | 37 | 142 | 47 | 7 | 0 | 0 | 0 | 0 | 0 | 241 |
| 1:00 | 5 | 0 | 3 | 13 | 39 | 108 | 71 | 14 | 1 | 0 | 0 | 0 | 0 | 254 |
| 2:00 | 6 | 0 | 1 | 2 | 28 | 117 | 76 | 12 | 1 | 0 | 0 | 0 | 0 | 243 |
| 3:00 | 0 | 0 | 2 | 5 | 24 | 92 | 68 | 7 | 2 | 0 | 0 | 0 | 0 | 200 |
| 4:00 | 0 | 0 | 0 | 5 | 18 | 77 | 70 | 8 | 1 | 1 | 0 | 0 | 0 | 180 |
| 5:00 | 0 | 0 | 1 | 4 | 10 | 60 | 59 | 11 | 0 | 0 | 0 | 0 | 0 | 145 |
| 6:00 | 0 | 0 | 0 | 1 | 16 | 44 | 41 | 2 | 1 | 0 | 0 | 0 | 0 | 105 |
| 7:00 | 0 | 0 | 0 | 3 | 10 | 41 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 76 |
| 8:00 | 0 | 0 | 1 | 0 | 4 | 28 | 17 | 2 | 1 | 1 | 0 | 0 | 0 | 54 |
| 9:00 | 0 | 0 | 0 | 1 | 5 | 21 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 42 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 9 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 21 | 0 | 25 | 90 | 490 | 1750 | 972 | 114 | 12 | 3 | 0 | 0 | 0 | 3477 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 31 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 62 |
| 6:00 | 0 | 0 | 0 | 1 | 33 | 127 | 46 | 2 | 0 | 0 | 0 | 0 | 0 | 209 |
| 7:00 | 0 | 1 | 1 | 9 | 33 | 152 | 71 | 6 | 0 | 0 | 0 | 0 | 0 | 273 |
| 8:00 | 3 | 0 | 3 | 16 | 60 | 185 | 71 | 9 | 0 | 0 | 0 | 0 | 1 | 348 |
| 9:00 | 0 | 2 | 2 | 13 | 60 | 161 | 65 | 12 | 0 | 1 | 0 | 0 | 0 | 316 |
| 10:00 | 0 | 0 | 3 | 2 | 44 | 155 | 83 | 6 | 0 | 0 | 0 | 0 | 1 | 294 |
| 11:00 | 0 | 0 | 0 | 4 | 40 | 144 | 70 | 8 | 1 | 0 | 0 | 0 | 0 | 267 |
| 12:00 PM | 1 | 0 | 0 | 1 | 30 | 142 | 72 | 13 | 1 | 0 | 1 | 0 | 0 | 261 |
| 1:00 | 4 | 4 | 10 | 5 | 26 | 116 | 85 | 13 | 1 | 0 | 0 | 0 | 0 | 264 |
| 2:00 | 2 | 1 | 4 | 9 | 34 | 106 | 64 | 8 | 1 | 0 | 0 | 0 | 0 | 229 |
| 3:00 | 1 | 0 | 2 | 6 | 21 | 76 | 76 | 6 | 0 | 0 | 0 | 1 | 0 | 189 |
| 4:00 | 1 | 0 | 1 | 6 | 11 | 62 | 72 | 15 | 1 | 0 | 0 | 0 | 0 | 169 |
| 5:00 | 1 | 0 | 0 | 4 | 9 | 60 | 40 | 12 | 2 | 0 | 0 | 0 | 0 | 128 |
| 6:00 | 0 | 0 | 1 | 4 | 19 | 59 | 30 | 4 | 0 | 1 | 0 | 0 | 0 | 118 |
| 7:00 | 1 | 0 | 0 | 3 | 10 | 42 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 88 |
| 8:00 | 0 | 0 | 0 | 0 | 10 | 44 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 76 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 18 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 37 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 13 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 14 | 8 | 27 | 84 | 451 | 1701 | 940 | 129 | 8 | 2 | 1 | 1 | 2 | 3368 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 33 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 59 |
| 6:00 | 0 | 0 | 0 | 0 | 26 | 120 | 44 | 2 | 1 | 0 | 0 | 0 | 0 | 193 |
| 7:00 | 0 | 0 | 0 | 6 | 48 | 171 | 82 | 3 | 0 | 0 | 0 | 1 | 0 | 311 |
| 8:00 | 4 | 1 | 2 | 22 | 72 | 179 | 76 | 12 | 2 | 0 | 0 | 0 | 0 | 370 |
| 9:00 | 2 | 0 | 0 | 4 | 61 | 185 | 104 | 21 | 0 | 0 | 0 | 0 | 0 | 377 |
| 10:00 | 3 | 0 | 1 | 12 | 46 | 134 | 76 | 4 | 2 | 0 | 0 | 0 | 0 | 278 |
| 11:00 | 2 | 2 | 4 | 12 | 63 | 139 | 79 | 23 | 0 | 0 | 0 | 0 | 0 | 324 |
| 12:00 PM | 3 | 1 | 0 | 4 | 37 | 165 | 80 | 9 | 1 | 0 | 0 | 0 | 0 | 300 |
| 1:00 | 0 | 0 | 0 | 6 | 30 | 136 | 80 | 5 | 3 | 0 | 0 | 0 | 0 | 260 |
| 2:00 | 2 | 0 | 0 | 5 | 47 | 120 | 66 | 13 | 1 | 0 | 0 | 0 | 0 | 254 |
| 3:00 | 0 | 0 | 0 | 5 | 23 | 74 | 60 | 14 | 1 | 0 | 0 | 0 | 0 | 177 |
| 4:00 | 2 | 0 | 0 | 0 | 8 | 67 | 67 | 10 | 2 | 0 | 0 | 0 | 0 | 156 |
| 5:00 | 0 | 0 | 0 | 1 | 10 | 49 | 53 | 10 | 1 | 0 | 0 | 0 | 0 | 124 |
| 6:00 | 0 | 2 | 1 | 3 | 17 | 46 | 35 | 2 | 0 | 0 | 0 | 0 | 0 | 106 |
| 7:00 | 0 | 0 | 1 | 8 | 20 | 60 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 126 |
| 8:00 | 0 | 0 | 1 | 4 | 33 | 71 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 146 |
| 9:00 | 0 | 0 | 0 | 2 | 9 | 52 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 86 |
| 10:00 | 0 | 0 | 1 | 1 | 3 | 13 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 27 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 18 | 6 | 11 | 95 | 556 | 1830 | 1026 | 146 | 14 | 0 | 0 | 1 | 0 | 3703 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 5:00 | 0 | 0 | 0 | 0 | 7 | 25 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 0 | 0 | 0 | 5 | 24 | 56 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| 7:00 | 0 | 0 | 0 | 1 | 20 | 75 | 48 | 9 | 3 | 0 | 0 | 0 | 0 | 156 |
| 8:00 | 0 | 0 | 1 | 1 | 17 | 103 | 68 | 16 | 0 | 0 | 0 | 0 | 0 | 206 |
| 9:00 | 0 | 0 | 3 | 9 | 25 | 86 | 89 | 16 | 0 | 0 | 0 | 0 | 0 | 228 |
| 10:00 | 0 | 0 | 0 | 3 | 29 | 126 | 62 | 17 | 1 | 0 | 0 | 0 | 0 | 238 |
| 11:00 | 0 | 0 | 0 | 9 | 23 | 142 | 84 | 11 | 2 | 0 | 0 | 1 | 0 | 272 |
| 12:00 PM | 3 | 0 | 1 | 8 | 30 | 82 | 85 | 14 | 2 | 0 | 0 | 0 | 0 | 225 |
| 1:00 | 5 | 0 | 6 | 7 | 34 | 104 | 79 | 8 | 2 | 0 | 0 | 0 | 0 | 245 |
| 2:00 | 1 | 0 | 0 | 5 | 19 | 108 | 91 | 12 | 0 | 0 | 0 | 0 | 0 | 236 |
| 3:00 | 0 | 0 | 2 | 4 | 27 | 119 | 77 | 22 | 1 | 0 | 0 | 0 | 0 | 252 |
| 4:00 | 0 | 0 | 5 | 10 | 37 | 123 | 87 | 14 | 0 | 1 | 0 | 0 | 0 | 277 |
| 5:00 | 0 | 0 | 2 | 4 | 14 | 91 | 88 | 12 | 1 | 0 | 1 | 0 | 0 | 213 |
| 6:00 | 1 | 0 | 0 | 1 | 17 | 89 | 51 | 10 | 1 | 0 | 0 | 0 | 0 | 170 |
| 7:00 | 0 | 0 | 0 | 1 | 7 | 37 | 37 | 10 | 1 | 0 | 0 | 0 | 0 | 93 |
| 8:00 | 0 | 0 | 0 | 0 | 9 | 36 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 71 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 20 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 40 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 13 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 24 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 4 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 11 |
| Total | 10 | 0 | 20 | 71 | 352 | 1446 | 1040 | 182 | 19 | 2 | 1 | 1 | 0 | 3144 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 17 | 17 | 1 | 1 | 0 | 0 | 0 | 0 | 38 |
| 6:00 | 0 | 0 | 0 | 0 | 5 | 45 | 23 | 5 | 0 | 0 | 0 | 0 | 0 | 78 |
| 7:00 | 0 | 0 | 0 | 0 | 3 | 47 | 42 | 11 | 1 | 0 | 1 | 0 | 0 | 105 |
| 8:00 | 0 | 0 | 0 | 2 | 10 | 39 | 48 | 7 | 1 | 0 | 0 | 0 | 0 | 107 |
| 9:00 | 0 | 0 | 0 | 2 | 11 | 56 | 51 | 13 | 2 | 0 | 0 | 0 | 0 | 135 |
| 10:00 | 2 | 0 | 1 | 4 | 31 | 81 | 72 | 13 | 0 | 0 | 0 | 0 | 0 | 204 |
| 11:00 | 1 | 0 | 0 | 7 | 36 | 111 | 59 | 8 | 1 | 0 | 0 | 0 | 0 | 223 |
| 12:00 PM | 1 | 0 | 0 | 3 | 27 | 106 | 72 | 9 | 0 | 0 | 0 | 0 | 0 | 218 |
| 1:00 | 1 | 0 | 0 | 7 | 31 | 83 | 65 | 17 | 2 | 0 | 0 | 0 | 0 | 206 |
| 2:00 | 1 | 0 | 0 | 0 | 13 | 72 | 58 | 10 | 3 | 2 | 0 | 0 | 0 | 159 |
| 3:00 | 0 | 0 | 2 | 3 | 22 | 76 | 58 | 8 | 1 | 1 | 0 | 0 | 0 | 171 |
| 4:00 | 0 | 0 | 0 | 2 | 11 | 53 | 68 | 14 | 2 | 0 | 0 | 0 | 0 | 150 |
| 5:00 | 0 | 0 | 0 | 1 | 12 | 57 | 34 | 8 | 0 | 0 | 0 | 0 | 0 | 112 |
| 6:00 | 0 | 0 | 1 | 0 | 6 | 22 | 21 | 5 | 0 | 0 | 0 | 0 | 1 | 56 |
| 7:00 | 0 | 0 | 0 | 0 | 12 | 34 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 67 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 22 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 36 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 18 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 36 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 6 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 19 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 6 | 0 | 4 | 34 | 237 | 955 | 747 | 140 | 15 | 5 | 1 | 0 | 1 | 2145 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 29 | 21 | 1 | 0 | 1 | 0 | 0 | 0 | 53 |
| 6:00 | 0 | 0 | 0 | 3 | 46 | 90 | 34 | 3 | 1 | 0 | 0 | 0 | 0 | 177 |
| 7:00 | 0 | 0 | 1 | 10 | 70 | 146 | 56 | 4 | 0 | 1 | 0 | 0 | 0 | 288 |
| 8:00 | 0 | 2 | 24 | 17 | 78 | 140 | 37 | 4 | 1 | 0 | 0 | 0 | 0 | 303 |
| 9:00 | 0 | 0 | 0 | 19 | 82 | 160 | 76 | 7 | 3 | 0 | 0 | 0 | 0 | 347 |
| 10:00 | 4 | 2 | 4 | 7 | 36 | 149 | 43 | 9 | 0 | 0 | 0 | 0 | 0 | 254 |
| 11:00 | 0 | 0 | 2 | 11 | 52 | 145 | 49 | 6 | 0 | 0 | 0 | 0 | 0 | 265 |
| 12:00 PM | 1 | 0 | 4 | 9 | 42 | 127 | 58 | 6 | 0 | 0 | 0 | 0 | 0 | 247 |
| 1:00 | 5 | 3 | 0 | 6 | 49 | 119 | 67 | 7 | 3 | 1 | 0 | 0 | 0 | 260 |
| 2:00 | 4 | 0 | 2 | 7 | 36 | 119 | 40 | 2 | 1 | 1 | 0 | 0 | 0 | 212 |
| 3:00 | 1 | 0 | 0 | 4 | 23 | 74 | 81 | 25 | 0 | 0 | 0 | 0 | 0 | 208 |
| 4:00 | 0 | 0 | 0 | 3 | 16 | 87 | 59 | 14 | 0 | 0 | 0 | 0 | 0 | 179 |
| 5:00 | 1 | 0 | 0 | 6 | 19 | 68 | 42 | 7 | 0 | 0 | 0 | 0 | 0 | 143 |
| 6:00 | 0 | 0 | 0 | 3 | 15 | 43 | 34 | 8 | 0 | 0 | 0 | 0 | 0 | 103 |
| 7:00 | 0 | 0 | 0 | 0 | 5 | 32 | 24 | 4 | 1 | 0 | 0 | 0 | 0 | 66 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 21 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 46 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 11 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 33 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 7 |
| Total | 16 | 7 | 37 | 105 | 581 | 1581 | 769 | 116 | 11 | 4 | 0 | 0 | 0 | 3227 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Westbound

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 30 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| 6:00 | 0 | 0 | 2 | 4 | 36 | 118 | 37 | 1 | 0 | 0 | 0 | 0 | 0 | 198 |
| 7:00 | 0 | 1 | 3 | 11 | 59 | 173 | 60 | 2 | 0 | 0 | 0 | 0 | 0 | 309 |
| 8:00 | 1 | 11 | 26 | 47 | 81 | 157 | 41 | 6 | 0 | 1 | 0 | 0 | 1 | 372 |
| 9:00 | 0 | 0 | 6 | 12 | 75 | 191 | 62 | 9 | 0 | 0 | 0 | 0 | 0 | 355 |
| 10:00 | 3 | 0 | 4 | 16 | 81 | 141 | 59 | 8 | 0 | 0 | 0 | 1 | 0 | 313 |
| 11:00 | 0 | 0 | 0 | 9 | 64 | 150 | 62 | 12 | 0 | 0 | 0 | 0 | 0 | 297 |
| 12:00 PM | 2 | 0 | 0 | 2 | 42 | 144 | 79 | 4 | 0 | 0 | 0 | 0 | 0 | 273 |
| 1:00 | 5 | 0 | 0 | 7 | 45 | 131 | 55 | 8 | 1 | 1 | 0 | 0 | 0 | 253 |
| 2:00 | 5 | 0 | 1 | 1 | 47 | 113 | 64 | 7 | 2 | 0 | 0 | 0 | 0 | 240 |
| 3:00 | 0 | 0 | 1 | 4 | 23 | 77 | 72 | 9 | 1 | 0 | 0 | 0 | 0 | 187 |
| 4:00 | 3 | 0 | 0 | 0 | 16 | 54 | 78 | 10 | 2 | 0 | 0 | 1 | 0 | 164 |
| 5:00 | 0 | 0 | 0 | 2 | 17 | 66 | 41 | 3 | 1 | 0 | 0 | 0 | 0 | 130 |
| 6:00 | 0 | 0 | 0 | 1 | 9 | 38 | 29 | 8 | 0 | 0 | 1 | 0 | 0 | 86 |
| 7:00 | 0 | 0 | 0 | 0 | 10 | 31 | 21 | 5 | 0 | 0 | 0 | 0 | 0 | 67 |
| 8:00 | 0 | 0 | 0 | 1 | 9 | 30 | 15 | 3 | 0 | 1 | 0 | 0 | 0 | 59 |
| 9:00 | 0 | 0 | 0 | 0 | 2 | 12 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 28 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 8 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| Total | 19 | 12 | 43 | 117 | 623 | 1673 | 827 | 100 | 9 | 4 | 1 | 2 | 1 | 3431 |
| Grand Total | 291 | 72 | 402 | 1383 | 8368 | 32468 | 20969 | 3309 | 334 | 56 | 14 | 9 | 9 | 67684 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 34 | 38 | 42 | 44 |
| | Mean Speed (Average) | 39.1 | | | |
| | 10 MPH Pace Speed | 36-45 | | | |
| | Number in Pace | 53432 | | | |
| | Percent in Pace | 79.0% | | | |
| | Number > 35 MPH | 57168 | | | |
| | Percent > 35 MPH | 84.5% | | | |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
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Direction: Combined

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 2 | 8 | 51 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 81 |
| 6:00 | 0 | 0 | 0 | 10 | 22 | 158 | 59 | 6 | 1 | 0 | 0 | 0 | 0 | 256 |
| 7:00 | 0 | 0 | 1 | 21 | 55 | 186 | 116 | 18 | 2 | 0 | 0 | 0 | 0 | 399 |
| 8:00 | 13 | 0 | 3 | 11 | 75 | 280 | 125 | 10 | 0 | 0 | 0 | 0 | 0 | 517 |
| 9:00 | 4 | 0 | 0 | 3 | 86 | 281 | 142 | 31 | 2 | 0 | 0 | 0 | 0 | 549 |
| 10:00 | 5 | 0 | 1 | 16 | 72 | 286 | 171 | 14 | 1 | 0 | 0 | 0 | 0 | 566 |
| 11:00 | 0 | 0 | 0 | 1 | 81 | 358 | 171 | 24 | 4 | 0 | 0 | 0 | 0 | 639 |
| 12:00 PM | 5 | 0 | 5 | 18 | 111 | 314 | 123 | 13 | 2 | 0 | 0 | 0 | 0 | 591 |
| 1:00 | 2 | 0 | 0 | 10 | 117 | 301 | 150 | 20 | 1 | 1 | 0 | 0 | 0 | 602 |
| 2:00 | 2 | 0 | 1 | 17 | 133 | 278 | 155 | 14 | 1 | 0 | 0 | 0 | 0 | 601 |
| 3:00 | 1 | 0 | 1 | 7 | 97 | 280 | 177 | 28 | 1 | 0 | 0 | 0 | 0 | 592 |
| 4:00 | 2 | 0 | 0 | 5 | 70 | 242 | 155 | 16 | 3 | 2 | 0 | 0 | 0 | 495 |
| 5:00 | 0 | 0 | 0 | 8 | 68 | 258 | 88 | 10 | 2 | 0 | 0 | 0 | 0 | 434 |
| 6:00 | 0 | 0 | 0 | 5 | 50 | 142 | 66 | 11 | 1 | 1 | 0 | 0 | 0 | 276 |
| 7:00 | 0 | 0 | 0 | 2 | 13 | 74 | 44 | 10 | 2 | 1 | 0 | 1 | 0 | 147 |
| 8:00 | 0 | 0 | 0 | 3 | 7 | 36 | 40 | 9 | 3 | 0 | 0 | 0 | 0 | 98 |
| 9:00 | 0 | 0 | 1 | 1 | 17 | 57 | 36 | 1 | 0 | 1 | 0 | 0 | 0 | 114 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 45 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 80 |
| 11:00 | 0 | 0 | 0 | 0 | 6 | 11 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 29 |
| Total | 34 | 0 | 13 | 140 | 1094 | 3648 | 1878 | 250 | 27 | 6 | 0 | 1 | 0 | 7091 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
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Direction: Combined

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 1 | 0 | 0 | 5 | 32 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 65 |
| 6:00 | 0 | 0 | 0 | 4 | 31 | 165 | 60 | 6 | 1 | 0 | 0 | 0 | 0 | 267 |
| 7:00 | 0 | 0 | 2 | 5 | 56 | 200 | 121 | 9 | 3 | 0 | 0 | 0 | 0 | 396 |
| 8:00 | 2 | 0 | 1 | 13 | 62 | 281 | 162 | 28 | 0 | 0 | 0 | 1 | 0 | 550 |
| 9:00 | 8 | 3 | 14 | 12 | 82 | 294 | 169 | 15 | 3 | 0 | 0 | 0 | 0 | 600 |
| 10:00 | 0 | 0 | 0 | 9 | 100 | 310 | 150 | 25 | 1 | 0 | 0 | 0 | 0 | 595 |
| 11:00 | 9 | 1 | 4 | 14 | 114 | 325 | 157 | 14 | 3 | 0 | 0 | 0 | 0 | 641 |
| 12:00 PM | 4 | 0 | 1 | 11 | 88 | 292 | 175 | 33 | 1 | 0 | 0 | 0 | 0 | 605 |
| 1:00 | 2 | 0 | 0 | 7 | 108 | 268 | 131 | 12 | 2 | 0 | 0 | 0 | 1 | 531 |
| 2:00 | 10 | 0 | 0 | 12 | 107 | 336 | 123 | 20 | 2 | 0 | 0 | 0 | 0 | 610 |
| 3:00 | 2 | 0 | 2 | 9 | 119 | 311 | 135 | 19 | 1 | 0 | 0 | 0 | 1 | 599 |
| 4:00 | 1 | 0 | 0 | 2 | 79 | 295 | 136 | 17 | 0 | 0 | 0 | 0 | 0 | 530 |
| 5:00 | 0 | 1 | 0 | 8 | 62 | 226 | 111 | 17 | 0 | 0 | 0 | 0 | 0 | 425 |
| 6:00 | 0 | 0 | 0 | 8 | 58 | 147 | 79 | 1 | 2 | 0 | 0 | 0 | 0 | 295 |
| 7:00 | 0 | 0 | 0 | 3 | 17 | 77 | 60 | 10 | 3 | 0 | 0 | 0 | 0 | 170 |
| 8:00 | 1 | 0 | 0 | 0 | 11 | 57 | 31 | 2 | 1 | 1 | 0 | 0 | 0 | 104 |
| 9:00 | 0 | 0 | 0 | 1 | 16 | 70 | 36 | 6 | 0 | 0 | 0 | 0 | 0 | 129 |
| 10:00 | 0 | 0 | 0 | 0 | 13 | 23 | 19 | 4 | 1 | 1 | 0 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 4 | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 21 |
| Total | 39 | 6 | 24 | 119 | 1132 | 3733 | 1901 | 247 | 27 | 3 | 0 | 1 | 2 | 7234 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
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Direction: Combined

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 9 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 34 | 30 | 3 | 0 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 1 | 31 | 157 | 38 | 7 | 0 | 0 | 0 | 0 | 0 | 234 |
| 7:00 | 0 | 0 | 0 | 3 | 51 | 217 | 129 | 11 | 1 | 0 | 0 | 0 | 0 | 412 |
| 8:00 | 3 | 0 | 0 | 14 | 78 | 209 | 129 | 16 | 2 | 0 | 0 | 0 | 0 | 451 |
| 9:00 | 5 | 1 | 3 | 8 | 78 | 308 | 131 | 11 | 0 | 0 | 0 | 0 | 0 | 545 |
| 10:00 | 0 | 0 | 6 | 17 | 76 | 275 | 140 | 22 | 3 | 1 | 0 | 0 | 0 | 540 |
| 11:00 | 5 | 0 | 1 | 17 | 97 | 335 | 163 | 13 | 1 | 0 | 0 | 0 | 0 | 632 |
| 12:00 PM | 2 | 0 | 2 | 17 | 98 | 307 | 195 | 22 | 1 | 0 | 0 | 0 | 0 | 644 |
| 1:00 | 3 | 0 | 2 | 12 | 75 | 287 | 142 | 18 | 3 | 1 | 0 | 0 | 0 | 543 |
| 2:00 | 8 | 2 | 12 | 12 | 92 | 307 | 132 | 24 | 2 | 0 | 0 | 0 | 0 | 591 |
| 3:00 | 2 | 0 | 1 | 17 | 83 | 291 | 164 | 23 | 2 | 0 | 0 | 0 | 0 | 583 |
| 4:00 | 0 | 0 | 0 | 9 | 42 | 234 | 186 | 38 | 2 | 0 | 0 | 0 | 0 | 511 |
| 5:00 | 2 | 0 | 0 | 11 | 65 | 247 | 95 | 15 | 3 | 0 | 0 | 0 | 0 | 438 |
| 6:00 | 2 | 0 | 2 | 6 | 34 | 157 | 91 | 15 | 1 | 0 | 0 | 0 | 0 | 308 |
| 7:00 | 0 | 0 | 0 | 1 | 14 | 83 | 71 | 9 | 3 | 0 | 0 | 0 | 0 | 181 |
| 8:00 | 0 | 0 | 0 | 1 | 7 | 54 | 37 | 10 | 0 | 1 | 0 | 0 | 0 | 110 |
| 9:00 | 0 | 0 | 0 | 1 | 18 | 66 | 34 | 5 | 3 | 0 | 0 | 0 | 0 | 127 |
| 10:00 | 0 | 0 | 0 | 0 | 9 | 30 | 35 | 6 | 3 | 0 | 0 | 0 | 0 | 83 |
| 11:00 | 0 | 0 | 0 | 0 | 8 | 14 | 14 | 5 | 2 | 0 | 0 | 0 | 0 | 43 |
| Total | 32 | 3 | 29 | 148 | 965 | 3625 | 1962 | 277 | 32 | 4 | 0 | 0 | 0 | 7077 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
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Direction: Combined

| 11/22/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 8 | 11 | 6 | 2 | 2 | 0 | 0 | 0 | 31 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 15 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 36 | 20 | 4 | 1 | 0 | 0 | 0 | 0 | 65 |
| 6:00 | 0 | 0 | 0 | 2 | 15 | 92 | 40 | 3 | 1 | 1 | 0 | 0 | 0 | 154 |
| 7:00 | 0 | 0 | 2 | 4 | 34 | 133 | 92 | 13 | 2 | 0 | 0 | 0 | 0 | 280 |
| 8:00 | 0 | 2 | 1 | 3 | 48 | 160 | 112 | 22 | 1 | 0 | 0 | 0 | 0 | 349 |
| 9:00 | 1 | 2 | 1 | 4 | 68 | 217 | 130 | 16 | 0 | 0 | 0 | 0 | 0 | 439 |
| 10:00 | 6 | 3 | 5 | 14 | 55 | 236 | 153 | 35 | 6 | 0 | 0 | 0 | 0 | 513 |
| 11:00 | 2 | 1 | 2 | 5 | 31 | 214 | 192 | 42 | 4 | 0 | 0 | 0 | 0 | 493 |
| 12:00 PM | 4 | 0 | 0 | 17 | 57 | 173 | 196 | 55 | 1 | 1 | 0 | 0 | 0 | 504 |
| 1:00 | 5 | 0 | 0 | 9 | 57 | 197 | 177 | 41 | 13 | 2 | 0 | 0 | 0 | 501 |
| 2:00 | 5 | 0 | 0 | 3 | 42 | 230 | 228 | 50 | 9 | 0 | 0 | 0 | 0 | 567 |
| 3:00 | 0 | 0 | 1 | 1 | 27 | 242 | 199 | 61 | 8 | 2 | 0 | 0 | 0 | 541 |
| 4:00 | 0 | 0 | 3 | 4 | 23 | 207 | 207 | 44 | 9 | 2 | 0 | 0 | 0 | 499 |
| 5:00 | 1 | 0 | 0 | 3 | 22 | 194 | 169 | 51 | 8 | 2 | 0 | 0 | 0 | 450 |
| 6:00 | 1 | 0 | 0 | 0 | 12 | 126 | 137 | 47 | 10 | 0 | 0 | 0 | 0 | 333 |
| 7:00 | 0 | 0 | 1 | 4 | 19 | 75 | 81 | 17 | 2 | 0 | 1 | 0 | 0 | 200 |
| 8:00 | 0 | 0 | 0 | 0 | 9 | 85 | 74 | 15 | 6 | 1 | 0 | 0 | 0 | 190 |
| 9:00 | 0 | 0 | 0 | 0 | 10 | 48 | 53 | 18 | 3 | 1 | 0 | 0 | 0 | 133 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 25 | 40 | 15 | 3 | 3 | 0 | 0 | 0 | 90 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 15 | 20 | 5 | 2 | 0 | 0 | 0 | 0 | 42 |
| Total | 25 | 8 | 16 | 73 | 544 | 2721 | 2350 | 565 | 93 | 18 | 1 | 0 | 0 | 6414 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/23/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 8 | 12 | 9 | 1 | 2 | 0 | 0 | 0 | 32 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 6 | 0 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 1 | 0 | 4 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 2 | 29 | 25 | 7 | 1 | 0 | 0 | 0 | 0 | 64 |
| 6:00 | 0 | 2 | 0 | 1 | 6 | 44 | 34 | 3 | 2 | 0 | 0 | 0 | 0 | 92 |
| 7:00 | 0 | 0 | 0 | 1 | 3 | 41 | 74 | 15 | 4 | 0 | 1 | 0 | 0 | 139 |
| 8:00 | 1 | 1 | 0 | 2 | 11 | 95 | 138 | 26 | 6 | 2 | 0 | 0 | 0 | 282 |
| 9:00 | 1 | 1 | 6 | 6 | 39 | 161 | 178 | 42 | 2 | 0 | 0 | 0 | 0 | 436 |
| 10:00 | 0 | 0 | 0 | 6 | 37 | 224 | 178 | 30 | 5 | 0 | 0 | 0 | 0 | 480 |
| 11:00 | 0 | 0 | 0 | 2 | 40 | 248 | 190 | 33 | 6 | 1 | 0 | 0 | 2 | 522 |
| 12:00 PM | 1 | 1 | 1 | 7 | 35 | 241 | 176 | 35 | 2 | 0 | 1 | 0 | 0 | 500 |
| 1:00 | 3 | 1 | 0 | 7 | 51 | 226 | 179 | 49 | 6 | 0 | 0 | 0 | 1 | 523 |
| 2:00 | 3 | 0 | 1 | 0 | 34 | 201 | 190 | 49 | 4 | 1 | 0 | 0 | 0 | 483 |
| 3:00 | 0 | 0 | 2 | 2 | 16 | 168 | 194 | 58 | 9 | 1 | 0 | 0 | 1 | 451 |
| 4:00 | 2 | 0 | 4 | 3 | 15 | 164 | 162 | 62 | 13 | 4 | 0 | 0 | 0 | 429 |
| 5:00 | 0 | 0 | 0 | 4 | 28 | 149 | 163 | 32 | 4 | 1 | 0 | 0 | 0 | 381 |
| 6:00 | 0 | 0 | 0 | 1 | 21 | 93 | 104 | 37 | 5 | 0 | 0 | 0 | 0 | 261 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 41 | 82 | 20 | 2 | 1 | 0 | 0 | 0 | 153 |
| 8:00 | 0 | 0 | 0 | 1 | 11 | 54 | 36 | 8 | 2 | 3 | 0 | 0 | 0 | 115 |
| 9:00 | 0 | 0 | 1 | 1 | 12 | 53 | 40 | 4 | 1 | 0 | 0 | 0 | 0 | 112 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 33 | 31 | 9 | 1 | 1 | 0 | 0 | 0 | 77 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 5 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 11 | 6 | 15 | 46 | 371 | 2290 | 2203 | 542 | 78 | 19 | 2 | 0 | 4 | 5587 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/24/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 13 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 17 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 41 | 22 | 2 | 1 | 0 | 0 | 0 | 0 | 72 |
| 6:00 | 1 | 0 | 0 | 4 | 33 | 125 | 52 | 10 | 2 | 0 | 0 | 0 | 1 | 228 |
| 7:00 | 4 | 0 | 2 | 2 | 46 | 188 | 119 | 37 | 4 | 1 | 0 | 0 | 0 | 403 |
| 8:00 | 2 | 0 | 1 | 4 | 52 | 259 | 182 | 24 | 6 | 0 | 0 | 0 | 0 | 530 |
| 9:00 | 2 | 2 | 8 | 17 | 68 | 235 | 197 | 36 | 4 | 1 | 0 | 0 | 0 | 570 |
| 10:00 | 0 | 0 | 4 | 5 | 79 | 264 | 249 | 41 | 4 | 1 | 0 | 0 | 0 | 647 |
| 11:00 | 0 | 0 | 1 | 8 | 72 | 306 | 234 | 36 | 6 | 0 | 1 | 0 | 0 | 664 |
| 12:00 PM | 4 | 0 | 0 | 18 | 60 | 288 | 191 | 45 | 6 | 1 | 0 | 0 | 0 | 613 |
| 1:00 | 4 | 0 | 3 | 7 | 49 | 254 | 219 | 63 | 6 | 0 | 0 | 0 | 0 | 605 |
| 2:00 | 0 | 2 | 2 | 16 | 51 | 254 | 238 | 58 | 9 | 2 | 0 | 0 | 0 | 632 |
| 3:00 | 5 | 1 | 9 | 9 | 55 | 242 | 227 | 54 | 8 | 0 | 0 | 0 | 0 | 610 |
| 4:00 | 0 | 0 | 2 | 6 | 40 | 228 | 217 | 64 | 3 | 1 | 0 | 0 | 0 | 561 |
| 5:00 | 1 | 0 | 2 | 4 | 30 | 192 | 227 | 21 | 3 | 0 | 0 | 0 | 0 | 480 |
| 6:00 | 0 | 0 | 0 | 2 | 34 | 153 | 106 | 32 | 9 | 1 | 1 | 0 | 0 | 338 |
| 7:00 | 0 | 0 | 0 | 4 | 6 | 74 | 81 | 26 | 3 | 1 | 0 | 0 | 0 | 195 |
| 8:00 | 0 | 0 | 0 | 1 | 8 | 59 | 58 | 14 | 1 | 0 | 0 | 1 | 0 | 142 |
| 9:00 | 0 | 0 | 0 | 1 | 3 | 26 | 41 | 10 | 3 | 3 | 0 | 0 | 0 | 87 |
| 10:00 | 0 | 0 | 0 | 1 | 7 | 36 | 30 | 8 | 1 | 0 | 0 | 0 | 0 | 83 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 8 | 25 | 9 | 1 | 1 | 1 | 1 | 0 | 46 |
| Total | 23 | 5 | 34 | 110 | 701 | 3248 | 2729 | 599 | 82 | 13 | 5 | 2 | 1 | 7552 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/25/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 19 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 1 | 5 | 31 | 30 | 7 | 2 | 0 | 0 | 0 | 0 | 76 |
| 6:00 | 0 | 0 | 0 | 1 | 37 | 158 | 68 | 7 | 1 | 1 | 0 | 0 | 0 | 273 |
| 7:00 | 3 | 0 | 0 | 4 | 30 | 223 | 142 | 25 | 8 | 2 | 0 | 0 | 0 | 437 |
| 8:00 | 4 | 1 | 4 | 14 | 44 | 280 | 183 | 38 | 5 | 0 | 0 | 0 | 0 | 573 |
| 9:00 | 6 | 1 | 6 | 7 | 56 | 301 | 210 | 48 | 4 | 1 | 0 | 0 | 0 | 640 |
| 10:00 | 9 | 0 | 1 | 13 | 75 | 308 | 237 | 51 | 7 | 0 | 0 | 0 | 0 | 701 |
| 11:00 | 5 | 1 | 7 | 20 | 83 | 334 | 232 | 50 | 1 | 0 | 0 | 0 | 0 | 733 |
| 12:00 PM | 4 | 8 | 9 | 13 | 60 | 336 | 265 | 34 | 4 | 0 | 0 | 0 | 0 | 733 |
| 1:00 | 0 | 0 | 1 | 8 | 62 | 274 | 268 | 59 | 3 | 1 | 0 | 0 | 0 | 676 |
| 2:00 | 6 | 0 | 1 | 3 | 48 | 274 | 219 | 65 | 6 | 1 | 0 | 0 | 0 | 623 |
| 3:00 | 3 | 0 | 1 | 7 | 64 | 339 | 263 | 40 | 5 | 0 | 0 | 0 | 0 | 722 |
| 4:00 | 5 | 0 | 1 | 10 | 56 | 234 | 224 | 47 | 3 | 0 | 1 | 0 | 0 | 581 |
| 5:00 | 1 | 0 | 2 | 3 | 54 | 187 | 212 | 39 | 3 | 1 | 0 | 0 | 0 | 502 |
| 6:00 | 1 | 0 | 1 | 5 | 30 | 153 | 160 | 36 | 6 | 0 | 0 | 0 | 0 | 392 |
| 7:00 | 0 | 1 | 1 | 1 | 4 | 67 | 93 | 31 | 3 | 2 | 0 | 0 | 0 | 203 |
| 8:00 | 0 | 0 | 0 | 0 | 9 | 53 | 74 | 15 | 2 | 0 | 0 | 0 | 0 | 153 |
| 9:00 | 0 | 0 | 0 | 1 | 4 | 45 | 45 | 16 | 4 | 1 | 0 | 0 | 0 | 116 |
| 10:00 | 0 | 0 | 0 | 1 | 3 | 39 | 38 | 11 | 3 | 0 | 1 | 0 | 0 | 96 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 20 | 8 | 5 | 2 | 0 | 0 | 0 | 0 | 36 |
| Total | 47 | 12 | 35 | 112 | 728 | 3668 | 2993 | 628 | 73 | 12 | 2 | 0 | 0 | 8310 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/26/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 3 | 0 | 1 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 42 | 29 | 8 | 1 | 0 | 0 | 0 | 0 | 84 |
| 6:00 | 0 | 0 | 0 | 5 | 33 | 122 | 54 | 5 | 1 | 0 | 0 | 0 | 0 | 220 |
| 7:00 | 0 | 0 | 0 | 8 | 49 | 180 | 126 | 36 | 5 | 1 | 0 | 0 | 0 | 405 |
| 8:00 | 3 | 0 | 1 | 9 | 57 | 249 | 148 | 36 | 7 | 2 | 0 | 0 | 0 | 512 |
| 9:00 | 0 | 5 | 6 | 8 | 68 | 238 | 204 | 32 | 3 | 0 | 0 | 0 | 0 | 564 |
| 10:00 | 6 | 0 | 2 | 8 | 59 | 256 | 251 | 38 | 0 | 0 | 0 | 0 | 0 | 620 |
| 11:00 | 3 | 0 | 1 | 7 | 73 | 293 | 234 | 44 | 2 | 1 | 0 | 1 | 0 | 659 |
| 12:00 PM | 7 | 0 | 2 | 9 | 56 | 270 | 232 | 62 | 9 | 0 | 0 | 0 | 0 | 647 |
| 1:00 | 4 | 5 | 5 | 14 | 41 | 250 | 252 | 57 | 9 | 0 | 0 | 0 | 0 | 637 |
| 2:00 | 0 | 0 | 1 | 7 | 71 | 245 | 259 | 48 | 7 | 0 | 0 | 0 | 0 | 638 |
| 3:00 | 3 | 0 | 4 | 12 | 43 | 254 | 250 | 56 | 10 | 1 | 0 | 0 | 0 | 633 |
| 4:00 | 4 | 3 | 2 | 2 | 28 | 205 | 227 | 66 | 9 | 1 | 0 | 0 | 0 | 547 |
| 5:00 | 1 | 0 | 1 | 5 | 28 | 176 | 177 | 40 | 6 | 1 | 0 | 0 | 0 | 435 |
| 6:00 | 0 | 0 | 0 | 4 | 29 | 149 | 130 | 27 | 7 | 0 | 0 | 0 | 0 | 346 |
| 7:00 | 0 | 0 | 0 | 4 | 10 | 75 | 77 | 16 | 3 | 0 | 0 | 0 | 0 | 185 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 53 | 59 | 21 | 4 | 1 | 0 | 0 | 0 | 145 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 52 | 68 | 10 | 1 | 2 | 1 | 0 | 0 | 141 |
| 10:00 | 0 | 0 | 0 | 1 | 5 | 30 | 44 | 14 | 4 | 0 | 1 | 0 | 0 | 99 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 17 | 22 | 7 | 1 | 0 | 0 | 0 | 0 | 49 |
| Total | 31 | 13 | 25 | 104 | 674 | 3166 | 2858 | 634 | 93 | 14 | 2 | 1 | 0 | 7615 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/27/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 9 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 19 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 3 | 1 | 2 | 0 | 0 | 16 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 21 | 16 | 5 | 1 | 1 | 1 | 0 | 0 | 46 |
| 6:00 | 0 | 1 | 0 | 1 | 9 | 51 | 50 | 7 | 2 | 0 | 1 | 0 | 0 | 122 |
| 7:00 | 0 | 0 | 0 | 0 | 7 | 49 | 80 | 17 | 6 | 1 | 0 | 0 | 0 | 160 |
| 8:00 | 0 | 4 | 1 | 3 | 12 | 81 | 63 | 19 | 5 | 2 | 0 | 0 | 0 | 190 |
| 9:00 | 0 | 1 | 1 | 3 | 28 | 105 | 108 | 18 | 7 | 0 | 0 | 0 | 0 | 271 |
| 10:00 | 1 | 2 | 0 | 3 | 21 | 112 | 161 | 28 | 5 | 0 | 1 | 0 | 0 | 334 |
| 11:00 | 3 | 0 | 0 | 0 | 19 | 178 | 150 | 47 | 2 | 0 | 0 | 0 | 0 | 399 |
| 12:00 PM | 0 | 0 | 1 | 8 | 25 | 176 | 142 | 32 | 7 | 4 | 0 | 0 | 0 | 395 |
| 1:00 | 0 | 1 | 0 | 2 | 19 | 130 | 133 | 34 | 7 | 1 | 0 | 0 | 0 | 327 |
| 2:00 | 0 | 0 | 0 | 3 | 26 | 181 | 168 | 58 | 12 | 2 | 0 | 0 | 0 | 450 |
| 3:00 | 2 | 0 | 0 | 1 | 31 | 155 | 108 | 35 | 9 | 3 | 0 | 0 | 0 | 344 |
| 4:00 | 0 | 0 | 3 | 5 | 27 | 110 | 121 | 39 | 5 | 2 | 0 | 0 | 0 | 312 |
| 5:00 | 0 | 0 | 0 | 1 | 4 | 94 | 97 | 23 | 4 | 3 | 0 | 0 | 0 | 226 |
| 6:00 | 0 | 0 | 0 | 5 | 14 | 55 | 98 | 40 | 6 | 0 | 0 | 0 | 0 | 218 |
| 7:00 | 0 | 0 | 1 | 2 | 7 | 27 | 53 | 18 | 3 | 0 | 0 | 0 | 0 | 111 |
| 8:00 | 0 | 0 | 0 | 1 | 4 | 36 | 50 | 13 | 6 | 0 | 0 | 0 | 0 | 110 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 29 | 40 | 19 | 4 | 1 | 0 | 0 | 0 | 97 |
| 10:00 | 0 | 0 | 0 | 0 | 8 | 21 | 17 | 3 | 4 | 2 | 0 | 0 | 0 | 55 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 5 | 2 | 1 | 0 | 0 | 0 | 26 |
| Total | 6 | 9 | 7 | 39 | 269 | 1642 | 1686 | 467 | 104 | 26 | 5 | 0 | 0 | 4260 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/28/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 4 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 1 | 6 | 33 | 21 | 7 | 3 | 4 | 0 | 0 | 0 | 75 |
| 6:00 | 0 | 0 | 0 | 1 | 13 | 76 | 58 | 6 | 3 | 0 | 0 | 0 | 0 | 157 |
| 7:00 | 0 | 0 | 2 | 2 | 22 | 95 | 106 | 19 | 4 | 0 | 0 | 2 | 0 | 252 |
| 8:00 | 0 | 0 | 0 | 5 | 38 | 161 | 112 | 38 | 5 | 0 | 0 | 0 | 0 | 359 |
| 9:00 | 0 | 0 | 1 | 7 | 33 | 174 | 194 | 35 | 9 | 1 | 0 | 0 | 0 | 454 |
| 10:00 | 3 | 0 | 0 | 5 | 37 | 184 | 208 | 63 | 9 | 1 | 0 | 0 | 0 | 510 |
| 11:00 | 0 | 0 | 0 | 3 | 36 | 262 | 247 | 54 | 6 | 1 | 0 | 0 | 0 | 609 |
| 12:00 PM | 10 | 2 | 28 | 7 | 50 | 250 | 235 | 41 | 5 | 3 | 0 | 0 | 0 | 631 |
| 1:00 | 1 | 1 | 4 | 18 | 46 | 214 | 240 | 48 | 7 | 0 | 1 | 0 | 0 | 580 |
| 2:00 | 1 | 0 | 1 | 17 | 58 | 261 | 248 | 40 | 3 | 2 | 1 | 0 | 0 | 632 |
| 3:00 | 4 | 0 | 0 | 3 | 40 | 244 | 210 | 53 | 3 | 3 | 0 | 0 | 0 | 560 |
| 4:00 | 2 | 0 | 0 | 4 | 28 | 297 | 262 | 38 | 7 | 0 | 0 | 1 | 1 | 640 |
| 5:00 | 2 | 0 | 3 | 1 | 33 | 190 | 193 | 39 | 3 | 1 | 0 | 0 | 0 | 465 |
| 6:00 | 0 | 0 | 3 | 6 | 37 | 137 | 133 | 34 | 5 | 0 | 0 | 0 | 1 | 356 |
| 7:00 | 2 | 1 | 0 | 1 | 10 | 124 | 139 | 26 | 8 | 0 | 0 | 0 | 0 | 311 |
| 8:00 | 2 | 0 | 1 | 1 | 5 | 85 | 91 | 14 | 8 | 1 | 0 | 0 | 0 | 208 |
| 9:00 | 0 | 0 | 0 | 1 | 18 | 66 | 66 | 21 | 3 | 2 | 0 | 0 | 0 | 177 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 32 | 62 | 12 | 3 | 4 | 0 | 1 | 0 | 117 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 14 | 28 | 6 | 1 | 0 | 0 | 0 | 0 | 50 |
| Total | 27 | 4 | 43 | 84 | 516 | 2905 | 2862 | 601 | 96 | 23 | 2 | 4 | 2 | 7169 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/29/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 3 | 3 | 0 | 0 | 0 | 0 | 22 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | 13 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 1 | 0 | 3 | 0 | 0 | 0 | 14 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 7 | 0 | 1 | 0 | 0 | 0 | 19 |
| 5:00 | 0 | 0 | 0 | 0 | 4 | 25 | 24 | 10 | 1 | 1 | 0 | 0 | 0 | 65 |
| 6:00 | 1 | 0 | 0 | 0 | 8 | 52 | 33 | 6 | 0 | 0 | 0 | 0 | 0 | 100 |
| 7:00 | 0 | 0 | 0 | 1 | 14 | 67 | 83 | 35 | 5 | 0 | 0 | 0 | 0 | 205 |
| 8:00 | 0 | 0 | 0 | 0 | 27 | 116 | 128 | 34 | 6 | 2 | 0 | 0 | 0 | 313 |
| 9:00 | 0 | 1 | 0 | 4 | 44 | 195 | 153 | 24 | 5 | 0 | 1 | 0 | 0 | 427 |
| 10:00 | 3 | 0 | 0 | 1 | 31 | 234 | 208 | 37 | 8 | 0 | 0 | 0 | 0 | 522 |
| 11:00 | 0 | 0 | 0 | 2 | 34 | 218 | 212 | 43 | 4 | 0 | 0 | 0 | 0 | 513 |
| 12:00 PM | 1 | 0 | 1 | 4 | 54 | 227 | 213 | 64 | 5 | 0 | 1 | 1 | 0 | 571 |
| 1:00 | 7 | 1 | 3 | 2 | 42 | 227 | 187 | 49 | 5 | 0 | 0 | 0 | 0 | 523 |
| 2:00 | 1 | 0 | 1 | 6 | 65 | 252 | 198 | 45 | 5 | 1 | 1 | 0 | 0 | 575 |
| 3:00 | 4 | 0 | 11 | 3 | 32 | 212 | 210 | 43 | 9 | 3 | 1 | 0 | 0 | 528 |
| 4:00 | 1 | 0 | 2 | 3 | 24 | 206 | 253 | 45 | 7 | 2 | 0 | 0 | 0 | 543 |
| 5:00 | 0 | 0 | 1 | 4 | 40 | 224 | 179 | 40 | 4 | 0 | 0 | 0 | 0 | 492 |
| 6:00 | 2 | 0 | 0 | 1 | 25 | 114 | 141 | 35 | 8 | 2 | 0 | 0 | 0 | 328 |
| 7:00 | 0 | 0 | 2 | 5 | 12 | 71 | 66 | 21 | 2 | 2 | 0 | 0 | 0 | 181 |
| 8:00 | 0 | 0 | 0 | 2 | 9 | 46 | 77 | 18 | 5 | 0 | 0 | 0 | 0 | 157 |
| 9:00 | 0 | 0 | 0 | 0 | 4 | 65 | 68 | 16 | 4 | 0 | 0 | 0 | 0 | 157 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 34 | 39 | 7 | 1 | 0 | 0 | 0 | 0 | 84 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 8 | 15 | 5 | 1 | 0 | 0 | 1 | 0 | 33 |
| Total | 20 | 2 | 21 | 38 | 476 | 2611 | 2511 | 593 | 91 | 17 | 4 | 2 | 0 | 6386 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 11/30/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 1 | 0 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 1 | 0 | 4 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 17 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 3 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | 18 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 26 | 20 | 10 | 1 | 0 | 0 | 0 | 0 | 57 |
| 6:00 | 0 | 0 | 0 | 1 | 1 | 31 | 43 | 9 | 0 | 1 | 0 | 0 | 0 | 86 |
| 7:00 | 0 | 0 | 0 | 3 | 2 | 55 | 79 | 25 | 2 | 0 | 0 | 0 | 0 | 166 |
| 8:00 | 0 | 0 | 0 | 0 | 12 | 74 | 119 | 32 | 7 | 0 | 1 | 0 | 0 | 245 |
| 9:00 | 3 | 4 | 0 | 4 | 21 | 133 | 154 | 39 | 6 | 1 | 0 | 0 | 0 | 365 |
| 10:00 | 2 | 0 | 0 | 3 | 24 | 174 | 175 | 41 | 6 | 1 | 0 | 0 | 0 | 426 |
| 11:00 | 1 | 0 | 2 | 5 | 43 | 211 | 181 | 33 | 2 | 1 | 0 | 0 | 0 | 479 |
| 12:00 PM | 0 | 0 | 0 | 1 | 28 | 204 | 186 | 57 | 6 | 0 | 1 | 0 | 0 | 483 |
| 1:00 | 2 | 0 | 0 | 2 | 20 | 205 | 170 | 33 | 4 | 1 | 0 | 0 | 1 | 438 |
| 2:00 | 4 | 0 | 0 | 6 | 27 | 185 | 169 | 40 | 8 | 4 | 0 | 0 | 0 | 443 |
| 3:00 | 3 | 1 | 8 | 6 | 37 | 160 | 161 | 37 | 6 | 2 | 0 | 0 | 0 | 421 |
| 4:00 | 1 | 0 | 1 | 3 | 18 | 153 | 157 | 48 | 7 | 1 | 0 | 0 | 0 | 389 |
| 5:00 | 0 | 0 | 0 | 1 | 25 | 198 | 148 | 32 | 8 | 1 | 0 | 0 | 0 | 413 |
| 6:00 | 0 | 0 | 0 | 7 | 20 | 75 | 83 | 17 | 4 | 1 | 1 | 0 | 0 | 208 |
| 7:00 | 0 | 0 | 0 | 0 | 15 | 55 | 57 | 8 | 3 | 1 | 0 | 0 | 0 | 139 |
| 8:00 | 0 | 0 | 1 | 0 | 3 | 29 | 44 | 18 | 2 | 1 | 0 | 0 | 0 | 98 |
| 9:00 | 0 | 0 | 0 | 0 | 7 | 27 | 29 | 9 | 3 | 2 | 0 | 0 | 0 | 77 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 17 | 15 | 8 | 1 | 0 | 0 | 0 | 0 | 42 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 5 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 16 | 5 | 13 | 43 | 310 | 2030 | 2021 | 512 | 79 | 20 | 3 | 0 | 1 | 5053 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/1/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 1 | 6 | 28 | 34 | 5 | 1 | 1 | 0 | 0 | 0 | 76 |
| 6:00 | 0 | 0 | 0 | 2 | 27 | 120 | 65 | 10 | 0 | 0 | 0 | 0 | 0 | 224 |
| 7:00 | 1 | 0 | 0 | 3 | 42 | 209 | 126 | 19 | 3 | 0 | 0 | 0 | 0 | 403 |
| 8:00 | 0 | 1 | 6 | 14 | 79 | 246 | 103 | 26 | 4 | 0 | 0 | 0 | 0 | 479 |
| 9:00 | 2 | 5 | 1 | 9 | 81 | 223 | 166 | 20 | 3 | 1 | 0 | 0 | 0 | 511 |
| 10:00 | 0 | 0 | 1 | 3 | 58 | 224 | 197 | 35 | 1 | 0 | 0 | 0 | 0 | 519 |
| 11:00 | 3 | 0 | 0 | 4 | 61 | 239 | 178 | 46 | 2 | 0 | 0 | 0 | 0 | 533 |
| 12:00 PM | 1 | 1 | 2 | 4 | 52 | 259 | 196 | 37 | 3 | 0 | 0 | 0 | 1 | 556 |
| 1:00 | 2 | 0 | 1 | 9 | 52 | 283 | 187 | 40 | 5 | 1 | 0 | 0 | 0 | 580 |
| 2:00 | 5 | 0 | 1 | 9 | 51 | 236 | 242 | 34 | 6 | 0 | 0 | 0 | 0 | 584 |
| 3:00 | 5 | 0 | 2 | 7 | 46 | 260 | 220 | 29 | 5 | 2 | 1 | 0 | 0 | 577 |
| 4:00 | 0 | 0 | 1 | 5 | 20 | 201 | 197 | 42 | 6 | 2 | 1 | 0 | 0 | 475 |
| 5:00 | 1 | 0 | 0 | 3 | 28 | 178 | 142 | 24 | 1 | 0 | 0 | 0 | 0 | 377 |
| 6:00 | 1 | 0 | 1 | 1 | 18 | 112 | 98 | 18 | 2 | 0 | 0 | 0 | 0 | 251 |
| 7:00 | 0 | 0 | 0 | 5 | 11 | 47 | 49 | 20 | 4 | 2 | 0 | 0 | 0 | 138 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 30 | 52 | 14 | 0 | 1 | 1 | 0 | 0 | 101 |
| 9:00 | 0 | 0 | 0 | 0 | 1 | 31 | 32 | 9 | 6 | 0 | 0 | 0 | 0 | 79 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 19 | 16 | 2 | 2 | 0 | 0 | 0 | 0 | 39 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 5 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 21 | 7 | 16 | 79 | 637 | 2962 | 2319 | 435 | 54 | 10 | 4 | 0 | 1 | 6545 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/2/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 6 |
| 4:00 | 0 | 0 | 1 | 0 | 0 | 8 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 1 | 0 | 0 | 10 | 41 | 23 | 5 | 2 | 0 | 0 | 0 | 0 | 82 |
| 6:00 | 0 | 0 | 0 | 1 | 27 | 137 | 57 | 10 | 1 | 0 | 0 | 0 | 0 | 233 |
| 7:00 | 2 | 0 | 0 | 17 | 71 | 187 | 110 | 27 | 1 | 0 | 1 | 0 | 0 | 416 |
| 8:00 | 1 | 0 | 5 | 21 | 82 | 232 | 129 | 29 | 2 | 0 | 0 | 0 | 0 | 501 |
| 9:00 | 0 | 0 | 4 | 10 | 80 | 259 | 143 | 32 | 2 | 0 | 0 | 0 | 0 | 530 |
| 10:00 | 3 | 0 | 0 | 19 | 83 | 250 | 199 | 29 | 0 | 0 | 0 | 0 | 0 | 583 |
| 11:00 | 6 | 0 | 0 | 5 | 70 | 279 | 193 | 38 | 6 | 1 | 0 | 0 | 0 | 598 |
| 12:00 PM | 1 | 0 | 1 | 3 | 48 | 253 | 219 | 44 | 6 | 0 | 0 | 0 | 0 | 575 |
| 1:00 | 1 | 0 | 0 | 9 | 51 | 260 | 205 | 42 | 2 | 1 | 1 | 0 | 0 | 572 |
| 2:00 | 1 | 0 | 2 | 7 | 29 | 232 | 238 | 53 | 6 | 0 | 0 | 1 | 0 | 569 |
| 3:00 | 2 | 0 | 0 | 6 | 70 | 217 | 220 | 49 | 4 | 0 | 0 | 0 | 0 | 568 |
| 4:00 | 2 | 0 | 0 | 1 | 33 | 177 | 244 | 52 | 9 | 0 | 0 | 0 | 0 | 518 |
| 5:00 | 0 | 0 | 0 | 7 | 32 | 140 | 177 | 28 | 5 | 1 | 0 | 0 | 0 | 390 |
| 6:00 | 1 | 0 | 0 | 7 | 18 | 119 | 101 | 27 | 2 | 0 | 0 | 0 | 0 | 275 |
| 7:00 | 0 | 0 | 0 | 1 | 8 | 43 | 58 | 16 | 1 | 0 | 0 | 0 | 0 | 127 |
| 8:00 | 0 | 0 | 0 | 0 | 11 | 34 | 48 | 14 | 3 | 4 | 1 | 0 | 0 | 115 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 29 | 43 | 8 | 1 | 1 | 1 | 0 | 0 | 89 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 13 | 23 | 3 | 1 | 0 | 0 | 0 | 0 | 41 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 9 | 11 | 2 | 1 | 0 | 0 | 0 | 0 | 23 |
| Total | 20 | 1 | 13 | 114 | 731 | 2926 | 2457 | 519 | 58 | 9 | 4 | 1 | 0 | 6853 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/3/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 2 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 14 |
| 2:00 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 43 | 42 | 4 | 1 | 0 | 0 | 0 | 0 | 94 |
| 6:00 | 0 | 0 | 1 | 17 | 42 | 112 | 47 | 5 | 2 | 0 | 0 | 0 | 0 | 226 |
| 7:00 | 0 | 0 | 9 | 10 | 51 | 206 | 131 | 24 | 3 | 0 | 0 | 0 | 0 | 434 |
| 8:00 | 4 | 0 | 0 | 4 | 75 | 230 | 152 | 29 | 3 | 0 | 0 | 0 | 0 | 497 |
| 9:00 | 1 | 0 | 0 | 9 | 78 | 238 | 193 | 35 | 3 | 0 | 0 | 0 | 0 | 557 |
| 10:00 | 4 | 0 | 5 | 9 | 55 | 247 | 212 | 27 | 3 | 0 | 0 | 0 | 0 | 562 |
| 11:00 | 4 | 0 | 0 | 11 | 56 | 315 | 161 | 32 | 3 | 0 | 0 | 0 | 0 | 582 |
| 12:00 PM | 3 | 0 | 3 | 7 | 62 | 248 | 193 | 43 | 2 | 0 | 0 | 0 | 1 | 562 |
| 1:00 | 6 | 0 | 3 | 15 | 60 | 253 | 222 | 49 | 5 | 1 | 0 | 0 | 0 | 614 |
| 2:00 | 7 | 0 | 1 | 5 | 55 | 285 | 251 | 36 | 5 | 0 | 0 | 0 | 0 | 645 |
| 3:00 | 0 | 0 | 3 | 14 | 57 | 262 | 196 | 38 | 7 | 0 | 1 | 0 | 0 | 578 |
| 4:00 | 0 | 0 | 0 | 8 | 31 | 178 | 213 | 50 | 10 | 3 | 0 | 0 | 0 | 493 |
| 5:00 | 0 | 0 | 1 | 5 | 19 | 181 | 166 | 46 | 2 | 1 | 0 | 1 | 0 | 422 |
| 6:00 | 1 | 0 | 1 | 1 | 24 | 96 | 118 | 15 | 4 | 0 | 0 | 0 | 0 | 260 |
| 7:00 | 0 | 0 | 0 | 3 | 16 | 80 | 62 | 27 | 4 | 0 | 1 | 1 | 0 | 194 |
| 8:00 | 0 | 0 | 3 | 0 | 6 | 53 | 42 | 15 | 3 | 2 | 0 | 0 | 0 | 124 |
| 9:00 | 0 | 0 | 0 | 1 | 7 | 48 | 53 | 11 | 0 | 0 | 0 | 0 | 0 | 120 |
| 10:00 | 0 | 0 | 0 | 1 | 4 | 31 | 35 | 4 | 0 | 0 | 0 | 1 | 0 | 76 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 11 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 24 |
| Total | 30 | 1 | 30 | 122 | 705 | 3128 | 2518 | 494 | 61 | 9 | 2 | 3 | 1 | 7104 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/4/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 1 | 0 | 1 | 6 | 38 | 24 | 5 | 0 | 0 | 0 | 0 | 0 | 75 |
| 6:00 | 0 | 0 | 0 | 1 | 35 | 140 | 63 | 5 | 0 | 0 | 0 | 0 | 0 | 244 |
| 7:00 | 1 | 1 | 1 | 9 | 37 | 189 | 110 | 18 | 3 | 0 | 0 | 0 | 0 | 369 |
| 8:00 | 5 | 0 | 3 | 19 | 69 | 249 | 126 | 27 | 2 | 2 | 0 | 0 | 1 | 503 |
| 9:00 | 0 | 2 | 2 | 14 | 83 | 236 | 144 | 31 | 3 | 1 | 0 | 0 | 0 | 516 |
| 10:00 | 0 | 1 | 3 | 6 | 59 | 241 | 185 | 28 | 7 | 1 | 1 | 0 | 1 | 533 |
| 11:00 | 1 | 0 | 2 | 11 | 60 | 279 | 192 | 35 | 3 | 1 | 0 | 0 | 0 | 584 |
| 12:00 PM | 1 | 1 | 0 | 4 | 44 | 280 | 197 | 43 | 7 | 1 | 1 | 0 | 0 | 579 |
| 1:00 | 10 | 4 | 10 | 7 | 45 | 237 | 204 | 54 | 6 | 0 | 0 | 0 | 0 | 577 |
| 2:00 | 2 | 1 | 4 | 14 | 54 | 277 | 231 | 43 | 3 | 0 | 0 | 0 | 0 | 629 |
| 3:00 | 7 | 0 | 3 | 8 | 36 | 285 | 221 | 25 | 3 | 0 | 0 | 1 | 0 | 589 |
| 4:00 | 4 | 0 | 1 | 6 | 24 | 178 | 209 | 51 | 5 | 0 | 0 | 0 | 0 | 478 |
| 5:00 | 3 | 0 | 0 | 7 | 29 | 198 | 164 | 41 | 5 | 1 | 0 | 0 | 0 | 448 |
| 6:00 | 0 | 0 | 1 | 5 | 30 | 113 | 105 | 23 | 1 | 1 | 0 | 0 | 0 | 279 |
| 7:00 | 1 | 0 | 1 | 4 | 14 | 77 | 68 | 10 | 3 | 1 | 1 | 0 | 0 | 180 |
| 8:00 | 0 | 0 | 0 | 0 | 16 | 68 | 43 | 11 | 1 | 1 | 0 | 0 | 0 | 140 |
| 9:00 | 1 | 0 | 0 | 0 | 3 | 46 | 42 | 14 | 3 | 1 | 0 | 0 | 0 | 110 |
| 10:00 | 0 | 0 | 0 | 0 | 4 | 21 | 14 | 8 | 5 | 0 | 0 | 0 | 0 | 52 |
| 11:00 | 0 | 0 | 0 | 0 | 2 | 17 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 34 |
| Total | 36 | 11 | 31 | 116 | 653 | 3180 | 2367 | 474 | 62 | 11 | 3 | 1 | 2 | 6947 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/5/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 3 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 0 | 0 | 0 | 0 | 1 | 37 | 28 | 7 | 0 | 0 | 0 | 0 | 0 | 73 |
| 6:00 | 0 | 0 | 0 | 1 | 28 | 131 | 65 | 7 | 1 | 0 | 0 | 0 | 0 | 233 |
| 7:00 | 3 | 0 | 0 | 6 | 53 | 200 | 119 | 19 | 4 | 1 | 0 | 1 | 0 | 406 |
| 8:00 | 5 | 1 | 3 | 23 | 81 | 240 | 154 | 38 | 4 | 1 | 0 | 0 | 0 | 550 |
| 9:00 | 2 | 1 | 0 | 7 | 82 | 268 | 201 | 37 | 2 | 0 | 0 | 0 | 0 | 600 |
| 10:00 | 8 | 0 | 1 | 14 | 74 | 248 | 182 | 25 | 2 | 1 | 0 | 0 | 0 | 555 |
| 11:00 | 4 | 2 | 9 | 16 | 94 | 242 | 206 | 50 | 2 | 0 | 0 | 0 | 0 | 625 |
| 12:00 PM | 3 | 1 | 0 | 5 | 60 | 272 | 224 | 49 | 4 | 0 | 0 | 0 | 0 | 618 |
| 1:00 | 1 | 0 | 0 | 7 | 53 | 233 | 231 | 40 | 3 | 1 | 0 | 0 | 0 | 569 |
| 2:00 | 9 | 0 | 0 | 7 | 63 | 243 | 226 | 43 | 1 | 0 | 0 | 0 | 0 | 592 |
| 3:00 | 0 | 0 | 0 | 7 | 49 | 253 | 207 | 53 | 7 | 0 | 0 | 0 | 0 | 576 |
| 4:00 | 3 | 0 | 0 | 0 | 21 | 180 | 255 | 46 | 5 | 0 | 0 | 0 | 0 | 510 |
| 5:00 | 0 | 0 | 0 | 6 | 21 | 134 | 193 | 44 | 6 | 0 | 0 | 0 | 0 | 404 |
| 6:00 | 0 | 2 | 4 | 3 | 30 | 96 | 138 | 29 | 2 | 0 | 0 | 0 | 0 | 304 |
| 7:00 | 1 | 0 | 1 | 9 | 23 | 86 | 67 | 16 | 1 | 1 | 0 | 0 | 0 | 205 |
| 8:00 | 0 | 0 | 1 | 5 | 35 | 94 | 72 | 9 | 2 | 1 | 1 | 0 | 0 | 220 |
| 9:00 | 0 | 0 | 0 | 2 | 9 | 95 | 57 | 7 | 0 | 1 | 0 | 0 | 0 | 171 |
| 10:00 | 0 | 0 | 1 | 1 | 24 | 28 | 35 | 2 | 1 | 0 | 0 | 0 | 0 | 92 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 14 | 14 | 3 | 0 | 1 | 0 | 0 | 0 | 33 |
| Total | 39 | 7 | 20 | 119 | 804 | 3109 | 2694 | 528 | 47 | 8 | 1 | 1 | 0 | 7377 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/6/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 0 | 0 | 0 | 0 | 2 | 6 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 1 | 0 | 0 | 0 | 9 | 31 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 69 |
| 6:00 | 0 | 0 | 0 | 5 | 25 | 71 | 35 | 2 | 0 | 0 | 0 | 0 | 0 | 138 |
| 7:00 | 0 | 1 | 0 | 2 | 27 | 88 | 81 | 18 | 5 | 0 | 0 | 0 | 0 | 222 |
| 8:00 | 0 | 0 | 2 | 4 | 23 | 150 | 131 | 37 | 0 | 0 | 0 | 0 | 1 | 348 |
| 9:00 | 0 | 2 | 5 | 11 | 33 | 142 | 152 | 40 | 8 | 0 | 0 | 0 | 0 | 393 |
| 10:00 | 0 | 0 | 0 | 4 | 46 | 200 | 158 | 42 | 2 | 1 | 0 | 0 | 0 | 453 |
| 11:00 | 0 | 0 | 0 | 11 | 33 | 220 | 196 | 38 | 4 | 0 | 0 | 1 | 0 | 503 |
| 12:00 PM | 5 | 0 | 1 | 15 | 51 | 187 | 176 | 34 | 3 | 0 | 0 | 0 | 0 | 472 |
| 1:00 | 5 | 1 | 6 | 7 | 56 | 217 | 182 | 31 | 5 | 1 | 0 | 0 | 0 | 511 |
| 2:00 | 2 | 0 | 0 | 5 | 40 | 240 | 203 | 34 | 3 | 1 | 0 | 0 | 0 | 528 |
| 3:00 | 1 | 0 | 2 | 5 | 51 | 253 | 194 | 44 | 3 | 0 | 0 | 0 | 0 | 553 |
| 4:00 | 2 | 0 | 5 | 11 | 63 | 251 | 195 | 41 | 4 | 1 | 0 | 0 | 0 | 573 |
| 5:00 | 0 | 0 | 2 | 4 | 27 | 183 | 192 | 42 | 6 | 4 | 1 | 0 | 0 | 461 |
| 6:00 | 1 | 0 | 0 | 1 | 26 | 180 | 136 | 20 | 4 | 0 | 0 | 0 | 0 | 368 |
| 7:00 | 0 | 0 | 0 | 1 | 10 | 92 | 117 | 36 | 1 | 0 | 1 | 0 | 0 | 258 |
| 8:00 | 0 | 0 | 0 | 0 | 13 | 106 | 103 | 20 | 1 | 0 | 0 | 0 | 0 | 243 |
| 9:00 | 0 | 0 | 0 | 0 | 10 | 78 | 86 | 21 | 1 | 1 | 0 | 0 | 0 | 197 |
| 10:00 | 0 | 0 | 0 | 0 | 11 | 39 | 41 | 13 | 3 | 0 | 0 | 0 | 0 | 107 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 17 | 18 | 5 | 2 | 1 | 0 | 0 | 0 | 45 |
| Total | 17 | 4 | 23 | 89 | 558 | 2757 | 2439 | 528 | 57 | 12 | 2 | 1 | 1 | 6488 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/7/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 0 | 2 | 0 | 0 | 0 | 12 |
| 3:00 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 1 | 1 | 20 | 19 | 2 | 1 | 0 | 0 | 0 | 0 | 44 |
| 6:00 | 0 | 0 | 0 | 1 | 8 | 48 | 33 | 8 | 2 | 0 | 0 | 0 | 0 | 100 |
| 7:00 | 0 | 0 | 0 | 3 | 6 | 63 | 70 | 13 | 2 | 0 | 1 | 0 | 0 | 158 |
| 8:00 | 0 | 0 | 0 | 4 | 13 | 71 | 101 | 22 | 3 | 0 | 0 | 0 | 0 | 214 |
| 9:00 | 0 | 0 | 1 | 4 | 24 | 143 | 160 | 31 | 3 | 0 | 0 | 0 | 0 | 366 |
| 10:00 | 2 | 0 | 2 | 11 | 49 | 151 | 149 | 34 | 4 | 1 | 0 | 0 | 0 | 403 |
| 11:00 | 2 | 0 | 0 | 8 | 51 | 181 | 170 | 23 | 2 | 0 | 0 | 0 | 0 | 437 |
| 12:00 PM | 3 | 0 | 0 | 5 | 36 | 208 | 187 | 25 | 0 | 0 | 0 | 0 | 0 | 464 |
| 1:00 | 2 | 0 | 0 | 7 | 41 | 183 | 139 | 30 | 6 | 0 | 0 | 0 | 0 | 408 |
| 2:00 | 1 | 0 | 0 | 5 | 23 | 151 | 137 | 40 | 6 | 2 | 1 | 0 | 0 | 366 |
| 3:00 | 0 | 0 | 2 | 4 | 51 | 164 | 140 | 27 | 5 | 1 | 0 | 0 | 0 | 394 |
| 4:00 | 0 | 0 | 0 | 3 | 29 | 130 | 158 | 45 | 6 | 0 | 1 | 0 | 0 | 372 |
| 5:00 | 0 | 0 | 0 | 2 | 19 | 136 | 128 | 25 | 2 | 1 | 0 | 0 | 0 | 313 |
| 6:00 | 0 | 0 | 1 | 0 | 14 | 77 | 94 | 17 | 2 | 1 | 0 | 0 | 1 | 207 |
| 7:00 | 0 | 0 | 0 | 0 | 15 | 48 | 45 | 9 | 4 | 0 | 0 | 0 | 0 | 121 |
| 8:00 | 0 | 0 | 0 | 0 | 7 | 45 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 107 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 40 | 41 | 12 | 1 | 0 | 0 | 0 | 0 | 99 |
| 10:00 | 0 | 0 | 0 | 0 | 2 | 20 | 30 | 6 | 1 | 1 | 1 | 0 | 0 | 61 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 5 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 17 |
| Total | 10 | 0 | 6 | 60 | 396 | 1895 | 1877 | 396 | 50 | 11 | 4 | 0 | 1 | 4706 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/8/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 1 | 7 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 35 | 27 | 3 | 0 | 1 | 0 | 0 | 0 | 69 |
| 6:00 | 0 | 0 | 0 | 4 | 49 | 98 | 47 | 7 | 3 | 0 | 0 | 0 | 0 | 208 |
| 7:00 | 0 | 0 | 1 | 11 | 75 | 172 | 99 | 18 | 3 | 1 | 0 | 0 | 0 | 380 |
| 8:00 | 2 | 2 | 25 | 20 | 87 | 205 | 98 | 21 | 4 | 0 | 0 | 0 | 0 | 464 |
| 9:00 | 0 | 0 | 0 | 20 | 95 | 235 | 155 | 33 | 5 | 0 | 0 | 0 | 0 | 543 |
| 10:00 | 8 | 3 | 6 | 12 | 76 | 265 | 126 | 32 | 1 | 0 | 0 | 0 | 0 | 529 |
| 11:00 | 1 | 0 | 2 | 17 | 73 | 276 | 151 | 13 | 2 | 0 | 0 | 0 | 0 | 535 |
| 12:00 PM | 2 | 0 | 4 | 15 | 83 | 281 | 157 | 24 | 3 | 0 | 0 | 0 | 0 | 569 |
| 1:00 | 6 | 3 | 2 | 10 | 90 | 269 | 178 | 24 | 6 | 2 | 0 | 0 | 1 | 591 |
| 2:00 | 7 | 0 | 3 | 20 | 72 | 319 | 147 | 13 | 1 | 3 | 0 | 0 | 0 | 585 |
| 3:00 | 2 | 0 | 0 | 7 | 57 | 270 | 226 | 45 | 3 | 0 | 0 | 0 | 0 | 610 |
| 4:00 | 0 | 0 | 0 | 5 | 27 | 188 | 202 | 53 | 9 | 1 | 0 | 0 | 0 | 485 |
| 5:00 | 1 | 0 | 0 | 12 | 41 | 165 | 159 | 27 | 5 | 0 | 0 | 0 | 0 | 410 |
| 6:00 | 0 | 0 | 0 | 3 | 27 | 101 | 101 | 20 | 2 | 0 | 0 | 0 | 0 | 254 |
| 7:00 | 0 | 0 | 0 | 1 | 6 | 45 | 51 | 16 | 2 | 0 | 0 | 0 | 0 | 121 |
| 8:00 | 0 | 0 | 0 | 0 | 4 | 26 | 39 | 8 | 1 | 0 | 0 | 1 | 0 | 79 |
| 9:00 | 0 | 0 | 0 | 0 | 6 | 35 | 41 | 7 | 0 | 0 | 0 | 0 | 0 | 89 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 18 | 21 | 7 | 0 | 0 | 0 | 0 | 0 | 49 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 23 |
| Total | 29 | 8 | 43 | 157 | 877 | 3024 | 2051 | 381 | 51 | 8 | 0 | 1 | 1 | 6631 |

City of Sanibel
Location: Sanibel Captiva Road
East of Gulf Pines Drive

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 12/9/2025

Direction: Combined

| 12/9/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 3 | 6 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 17 |
| 5:00 | 0 | 0 | 0 | 0 | 6 | 39 | 29 | 3 | 1 | 0 | 0 | 0 | 0 | 78 |
| 6:00 | 0 | 0 | 2 | 4 | 37 | 130 | 48 | 9 | 1 | 0 | 0 | 0 | 0 | 231 |
| 7:00 | 0 | 1 | 3 | 17 | 62 | 204 | 97 | 11 | 4 | 0 | 0 | 0 | 0 | 399 |
| 8:00 | 2 | 12 | 28 | 58 | 104 | 210 | 100 | 23 | 1 | 1 | 0 | 0 | 1 | 540 |
| 9:00 | 1 | 0 | 6 | 16 | 98 | 302 | 148 | 20 | 1 | 1 | 0 | 0 | 0 | 593 |
| 10:00 | 6 | 0 | 6 | 19 | 115 | 282 | 159 | 25 | 3 | 0 | 0 | 1 | 0 | 616 |
| 11:00 | 0 | 0 | 0 | 11 | 105 | 299 | 173 | 30 | 2 | 0 | 0 | 0 | 0 | 620 |
| 12:00 PM | 4 | 1 | 1 | 4 | 62 | 296 | 215 | 29 | 2 | 0 | 0 | 0 | 0 | 614 |
| 1:00 | 9 | 0 | 0 | 8 | 91 | 319 | 186 | 23 | 3 | 1 | 0 | 0 | 0 | 640 |
| 2:00 | 5 | 0 | 1 | 1 | 97 | 304 | 202 | 21 | 4 | 0 | 0 | 0 | 0 | 635 |
| 3:00 | 2 | 0 | 1 | 5 | 50 | 238 | 239 | 37 | 1 | 0 | 0 | 0 | 0 | 573 |
| 4:00 | 3 | 0 | 1 | 2 | 44 | 222 | 202 | 30 | 2 | 0 | 0 | 1 | 0 | 507 |
| 5:00 | 0 | 0 | 0 | 3 | 32 | 170 | 141 | 25 | 6 | 1 | 0 | 0 | 0 | 378 |
| 6:00 | 1 | 0 | 0 | 1 | 13 | 97 | 96 | 28 | 6 | 0 | 1 | 0 | 0 | 243 |
| 7:00 | 0 | 0 | 0 | 1 | 11 | 46 | 59 | 18 | 1 | 0 | 0 | 0 | 0 | 136 |
| 8:00 | 0 | 0 | 0 | 1 | 9 | 33 | 46 | 8 | 1 | 4 | 0 | 0 | 0 | 102 |
| 9:00 | 0 | 0 | 0 | 0 | 5 | 28 | 31 | 12 | 2 | 0 | 0 | 0 | 0 | 78 |
| 10:00 | 0 | 0 | 0 | 0 | 3 | 13 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 45 |
| 11:00 | 0 | 0 | 0 | 0 | 1 | 5 | 10 | 5 | 1 | 0 | 0 | 0 | 0 | 22 |
| Total | 33 | 14 | 49 | 151 | 948 | 3251 | 2215 | 367 | 44 | 11 | 1 | 2 | 1 | 7087 |
| Grand Total | 546 | 126 | 506 | 2063 | 14089 | 61519 | 48891 | 10037 | 1359 | 264 | 47 | 21 | 18 | 139486 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 34 | 38 | 42 | 45 |

| | |
|---|---|
| Mean Speed (Average) | 39.8 |
| 10 MPH Pace Speed | 36-45 |
| Number in Pace | 110395 |
| Percent in Pace | 79.0% |
| Number > 35 MPH | 122156 |
| Percent > 35 MPH | 87.6% |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Eastbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 1 | 0 | 0 | 4 | 12 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 28 |
| 7:00 | 1 | 5 | 13 | 19 | 30 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| 8:00 | 3 | 6 | 10 | 17 | 37 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| 9:00 | 1 | 13 | 7 | 22 | 55 | 34 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 138 |
| 10:00 | 4 | 10 | 8 | 32 | 55 | 25 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 140 |
| 11:00 | 1 | 9 | 18 | 31 | 69 | 27 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 161 |
| 12:00 PM | 5 | 15 | 31 | 27 | 50 | 31 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 167 |
| 1:00 | 4 | 14 | 9 | 31 | 59 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 2:00 | 3 | 7 | 8 | 21 | 56 | 30 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |
| 3:00 | 0 | 12 | 14 | 13 | 34 | 21 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 100 |
| 4:00 | 1 | 7 | 11 | 15 | 44 | 23 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 105 |
| 5:00 | 2 | 12 | 15 | 16 | 31 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |
| 6:00 | 2 | 6 | 12 | 14 | 33 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
| 7:00 | 0 | 1 | 2 | 10 | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| 8:00 | 0 | 0 | 3 | 6 | 15 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 9:00 | 0 | 3 | 0 | 4 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 10:00 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 29 | 122 | 164 | 287 | 600 | 331 | 60 | 7 | 0 | 0 | 0 | 0 | 0 | 1600 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Eastbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 1 | 0 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 2 | 0 | 6 | 12 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 7:00 | 3 | 14 | 9 | 15 | 35 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| 8:00 | 1 | 9 | 11 | 15 | 46 | 32 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 120 |
| 9:00 | 5 | 9 | 18 | 29 | 51 | 21 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 143 |
| 10:00 | 1 | 7 | 16 | 30 | 58 | 37 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 11:00 | 6 | 14 | 11 | 30 | 66 | 37 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| 12:00 PM | 6 | 13 | 21 | 34 | 57 | 39 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 174 |
| 1:00 | 3 | 15 | 19 | 22 | 53 | 33 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 151 |
| 2:00 | 4 | 11 | 5 | 18 | 39 | 35 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |
| 3:00 | 1 | 10 | 6 | 17 | 34 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 4:00 | 3 | 15 | 16 | 9 | 18 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 85 |
| 5:00 | 2 | 10 | 15 | 24 | 27 | 21 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| 6:00 | 1 | 8 | 8 | 15 | 24 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 69 |
| 7:00 | 2 | 2 | 1 | 9 | 28 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 8:00 | 0 | 2 | 1 | 5 | 18 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| 9:00 | 0 | 2 | 1 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 10:00 | 0 | 1 | 1 | 3 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 11:00 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 39 | 146 | 160 | 283 | 583 | 363 | 81 | 3 | 0 | 0 | 0 | 0 | 0 | 1658 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Eastbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 1 | 1 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 1 | 3 | 2 | 6 | 11 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 7:00 | 4 | 7 | 11 | 13 | 35 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 98 |
| 8:00 | 2 | 9 | 9 | 11 | 43 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| 9:00 | 3 | 10 | 5 | 22 | 56 | 33 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 137 |
| 10:00 | 1 | 5 | 19 | 27 | 72 | 33 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 11:00 | 9 | 16 | 19 | 39 | 68 | 25 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 182 |
| 12:00 PM | 6 | 6 | 17 | 28 | 63 | 44 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 175 |
| 1:00 | 1 | 13 | 20 | 33 | 50 | 27 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 2:00 | 2 | 10 | 9 | 28 | 43 | 25 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 120 |
| 3:00 | 2 | 8 | 11 | 16 | 40 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| 4:00 | 3 | 6 | 6 | 17 | 40 | 26 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 103 |
| 5:00 | 3 | 9 | 18 | 22 | 33 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 105 |
| 6:00 | 4 | 13 | 14 | 21 | 13 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 7:00 | 2 | 0 | 5 | 3 | 16 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 8:00 | 2 | 2 | 7 | 7 | 19 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 9:00 | 0 | 2 | 0 | 4 | 9 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 46 | 120 | 174 | 298 | 621 | 348 | 68 | 8 | 0 | 0 | 0 | 0 | 0 | 1683 |
| Grand Total | 114 | 388 | 498 | 868 | 1804 | 1042 | 209 | 18 | 0 | 0 | 0 | 0 | 0 | 4941 |

| Stats | | | | |
|---|---|---|---|---|
| | | Percentile | 15th | 50th | 85th | 95th |
| | | Speed | 21 | 31 | 36 | 39 |
| | | Mean Speed (Average) | 31.0 | | | |
| | | 10 MPH Pace Speed | 30-39 | | | |
| | | Number in Pace | 2852 | | | |
| | | Percent in Pace | 58.0% | | | |
| | | Number > 35 MPH | 1269 | | | |
| | | Percent > 35 MPH | 25.7% | | | |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Westbound

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 1 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 6:00 | 1 | 2 | 2 | 4 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:00 | 2 | 2 | 4 | 10 | 17 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 8:00 | 1 | 5 | 6 | 16 | 33 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 9:00 | 0 | 10 | 10 | 25 | 39 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| 10:00 | 0 | 11 | 7 | 41 | 50 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| 11:00 | 0 | 7 | 11 | 38 | 66 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 152 |
| 12:00 PM | 2 | 16 | 18 | 27 | 73 | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 159 |
| 1:00 | 0 | 24 | 18 | 34 | 69 | 19 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 166 |
| 2:00 | 0 | 23 | 14 | 37 | 71 | 34 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 3:00 | 1 | 11 | 23 | 21 | 64 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 153 |
| 4:00 | 0 | 7 | 9 | 24 | 73 | 23 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 141 |
| 5:00 | 0 | 8 | 11 | 30 | 47 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 6:00 | 2 | 15 | 8 | 27 | 24 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 7:00 | 2 | 15 | 0 | 9 | 17 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 8:00 | 0 | 8 | 4 | 1 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 9:00 | 0 | 4 | 3 | 4 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 10:00 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 11 | 171 | 149 | 352 | 680 | 248 | 37 | 3 | 0 | 0 | 0 | 0 | 1 | 1652 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Westbound

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:00 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 6:00 | 0 | 1 | 2 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 0 | 4 | 2 | 6 | 24 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 8:00 | 1 | 5 | 15 | 17 | 45 | 22 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 109 |
| 9:00 | 2 | 16 | 10 | 24 | 61 | 16 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 133 |
| 10:00 | 0 | 7 | 12 | 22 | 48 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| 11:00 | 0 | 9 | 11 | 47 | 52 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| 12:00 PM | 2 | 14 | 13 | 52 | 62 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 168 |
| 1:00 | 0 | 19 | 15 | 27 | 79 | 36 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 178 |
| 2:00 | 0 | 16 | 21 | 34 | 63 | 24 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 162 |
| 3:00 | 2 | 13 | 14 | 30 | 58 | 36 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 160 |
| 4:00 | 1 | 14 | 13 | 23 | 56 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 |
| 5:00 | 0 | 16 | 10 | 34 | 37 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| 6:00 | 1 | 15 | 10 | 26 | 30 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 7:00 | 1 | 9 | 5 | 8 | 15 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 8:00 | 0 | 5 | 4 | 9 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 9:00 | 0 | 2 | 1 | 6 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 10:00 | 0 | 1 | 0 | 2 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 11 | 166 | 159 | 370 | 661 | 296 | 29 | 4 | 1 | 0 | 1 | 0 | 0 | 1698 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Westbound

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 0 | 1 | 2 | 5 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 7:00 | 0 | 4 | 5 | 11 | 27 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 8:00 | 0 | 7 | 4 | 22 | 37 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 9:00 | 1 | 10 | 5 | 21 | 42 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 105 |
| 10:00 | 0 | 12 | 12 | 34 | 56 | 26 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 143 |
| 11:00 | 4 | 13 | 13 | 35 | 62 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| 12:00 PM | 1 | 20 | 7 | 39 | 64 | 33 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 167 |
| 1:00 | 1 | 17 | 20 | 40 | 63 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| 2:00 | 1 | 23 | 17 | 46 | 72 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 191 |
| 3:00 | 2 | 11 | 13 | 46 | 60 | 30 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 4:00 | 1 | 11 | 12 | 29 | 59 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 5:00 | 0 | 11 | 16 | 33 | 42 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 127 |
| 6:00 | 2 | 14 | 10 | 24 | 35 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 96 |
| 7:00 | 2 | 15 | 4 | 4 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 8:00 | 1 | 10 | 1 | 7 | 16 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 9:00 | 0 | 2 | 6 | 8 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 16 | 181 | 147 | 406 | 672 | 290 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1745 |
| Grand Total | 38 | 518 | 455 | 1128 | 2013 | 834 | 98 | 8 | 1 | 0 | 1 | 0 | 1 | 5095 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 21 | 30 | 35 | 37 |

| | |
|---|---|
| Mean Speed (Average) | 30.3 |
| 10 MPH Pace Speed | 26-35 |
| Number in Pace | 3141 |
| Percent in Pace | 62.0% |
| Number > 35 MPH | 943 |
| Percent > 35 MPH | 18.5% |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Combined

| 11/19/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 1 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 0 | 1 | 0 | 2 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 2 | 2 | 2 | 8 | 19 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 45 |
| 7:00 | 3 | 7 | 17 | 29 | 47 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| 8:00 | 4 | 11 | 16 | 33 | 70 | 43 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 181 |
| 9:00 | 1 | 23 | 17 | 47 | 94 | 55 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 243 |
| 10:00 | 4 | 21 | 15 | 73 | 105 | 41 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 268 |
| 11:00 | 1 | 16 | 29 | 69 | 135 | 53 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 313 |
| 12:00 PM | 7 | 31 | 49 | 54 | 123 | 48 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 326 |
| 1:00 | 4 | 38 | 27 | 65 | 128 | 52 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 323 |
| 2:00 | 3 | 30 | 22 | 58 | 127 | 64 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 314 |
| 3:00 | 1 | 23 | 37 | 34 | 98 | 47 | 10 | 2 | 0 | 0 | 0 | 0 | 1 | 253 |
| 4:00 | 1 | 14 | 20 | 39 | 117 | 46 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 246 |
| 5:00 | 2 | 20 | 26 | 46 | 78 | 29 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 207 |
| 6:00 | 4 | 21 | 20 | 41 | 57 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 166 |
| 7:00 | 2 | 16 | 2 | 19 | 29 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 82 |
| 8:00 | 0 | 8 | 7 | 7 | 27 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 7 | 3 | 8 | 12 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 39 |
| 10:00 | 0 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 40 | 293 | 313 | 639 | 1280 | 579 | 97 | 10 | 0 | 0 | 0 | 0 | 1 | 3252 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Combined

| 11/20/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 | 0 | 1 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 0 | 0 | 1 | 0 | 6 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 0 | 3 | 2 | 7 | 16 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 7:00 | 3 | 18 | 11 | 21 | 59 | 37 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| 8:00 | 2 | 14 | 26 | 32 | 91 | 54 | 8 | 1 | 0 | 0 | 1 | 0 | 0 | 229 |
| 9:00 | 7 | 25 | 28 | 53 | 112 | 37 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 276 |
| 10:00 | 1 | 14 | 28 | 52 | 106 | 60 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 270 |
| 11:00 | 6 | 23 | 22 | 77 | 118 | 60 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 317 |
| 12:00 PM | 8 | 27 | 34 | 86 | 119 | 60 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 342 |
| 1:00 | 3 | 34 | 34 | 49 | 132 | 69 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 329 |
| 2:00 | 4 | 27 | 26 | 52 | 102 | 59 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 280 |
| 3:00 | 3 | 23 | 20 | 47 | 92 | 49 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 250 |
| 4:00 | 4 | 29 | 29 | 32 | 74 | 45 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 218 |
| 5:00 | 2 | 26 | 25 | 58 | 64 | 38 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 223 |
| 6:00 | 2 | 23 | 18 | 41 | 54 | 22 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 162 |
| 7:00 | 3 | 11 | 6 | 17 | 43 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 106 |
| 8:00 | 0 | 7 | 5 | 14 | 27 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:00 | 0 | 4 | 2 | 7 | 16 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 10:00 | 0 | 2 | 1 | 5 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 11:00 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 50 | 312 | 319 | 653 | 1244 | 659 | 110 | 7 | 1 | 0 | 1 | 0 | 0 | 3356 |

City of Sanibel
Location: Periwinkle Way

JOHNSON ENGINEERING
— An Apex Company —

Start Date: 11/19/2025
End Date: 11/21/2025

Direction: Combined

| 11/21/2025 Time | 0 - 15 MPH | > 15 - 20 MPH | > 20 - 25 MPH | > 25 - 30 MPH | > 30 - 35 MPH | > 35 - 40 MPH | > 40 - 45 MPH | > 45 - 50 MPH | > 50 - 55 MPH | > 55 - 60 MPH | > 60 - 65 MPH | > 65 - 70 MPH | > 70 MPH | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:00 AM | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:00 | 0 | 1 | 1 | 1 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 1 | 4 | 4 | 11 | 21 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 7:00 | 4 | 11 | 16 | 24 | 62 | 38 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 159 |
| 8:00 | 2 | 16 | 13 | 33 | 80 | 37 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 9:00 | 4 | 20 | 10 | 43 | 98 | 53 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 242 |
| 10:00 | 1 | 17 | 31 | 61 | 128 | 59 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
| 11:00 | 13 | 29 | 32 | 74 | 130 | 39 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 324 |
| 12:00 PM | 7 | 26 | 24 | 67 | 127 | 77 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 342 |
| 1:00 | 2 | 30 | 40 | 73 | 113 | 54 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 320 |
| 2:00 | 3 | 33 | 26 | 74 | 115 | 53 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 311 |
| 3:00 | 4 | 19 | 24 | 62 | 100 | 54 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 269 |
| 4:00 | 4 | 17 | 18 | 46 | 99 | 57 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 249 |
| 5:00 | 3 | 20 | 34 | 55 | 75 | 37 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 232 |
| 6:00 | 6 | 27 | 24 | 45 | 48 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| 7:00 | 4 | 15 | 9 | 7 | 30 | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| 8:00 | 3 | 12 | 8 | 14 | 35 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 91 |
| 9:00 | 0 | 4 | 6 | 12 | 16 | 9 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 52 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 62 | 301 | 321 | 704 | 1293 | 638 | 100 | 9 | 0 | 0 | 0 | 0 | 0 | 3428 |
| Grand Total | 152 | 906 | 953 | 1996 | 3817 | 1876 | 307 | 26 | 1 | 0 | 1 | 0 | 1 | 10036 |

| Stats | Percentile | 15th | 50th | 85th | 95th |
|---|---|---|---|---|---|
| | Speed | 21 | 30 | 35 | 38 |

| | |
|---|---|
| Mean Speed (Average) | 30.7 |
| 10 MPH Pace Speed | 28-37 |
| Number in Pace | 5878 |
| Percent in Pace | 59.0% |
| Number > 35 MPH | 2212 |
| Percent > 35 MPH | 22.0% |

# Wildlife Mortality Monitoring & Reporting

Rachel Rainbolt, Conservation Officer

# Brief History of Wildlife Mortality Reporting on Sanibel

- Wildlife Advisory Committee (1984 - 2008)
  - "Animal Roadkill Survey" from 1988 - 1989
- Sanibel Captiva Conservation Foundation (SCCF)
  - Reptile and Amphibian Survey from 2002 - present
- Sanibel Resident Doris Hardy
  - Eastern Screech Owl Survey from 2012 - 2022
- Department of Natural Resources
  - Wildlife Mortality Report from late 2021 - present
  - Natural Resources, Public Works, SCCF, CROW, DDNWR, General Public

SANIBEL FLORIDA INCORPORATED 1974

SCCF SANIBEL-CAPTIVA CONSERVATION FOUNDATION

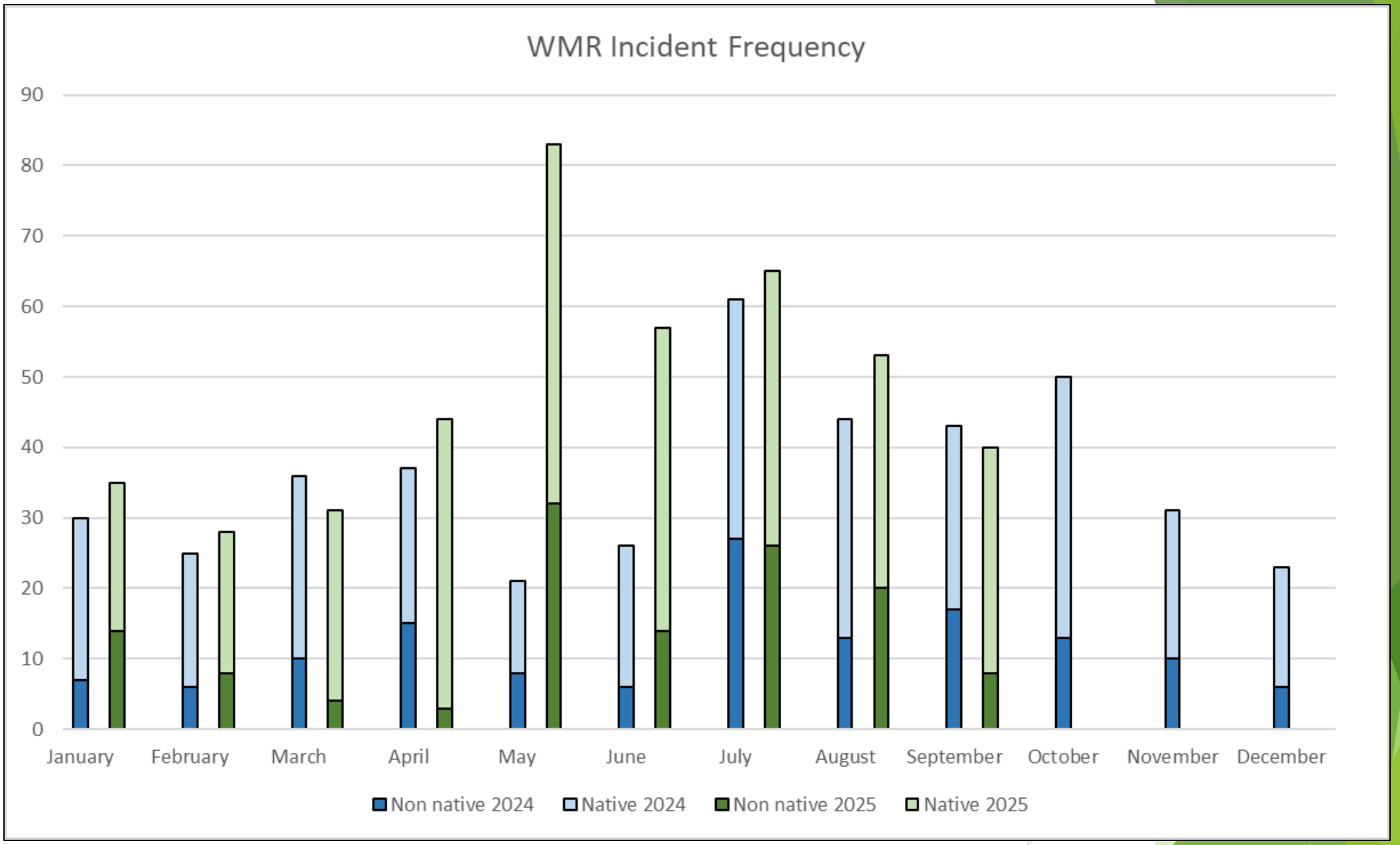
CROW Clinic for the Rehabilitation of Wildlife www.crowclinic.org Sanibel Island, Florida

U.S. FISH & WILDLIFE SERVICE

# Wildlife Mortality Report
# Key Findings



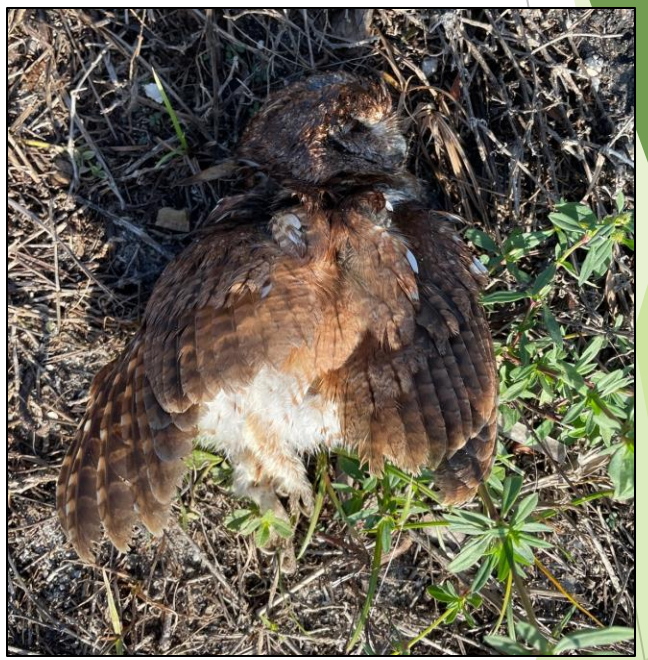

- 1,600 Total Incidents
  - 1,159 (January 2022 – December 2024)
  - 441 (January 2025 – September 2025)
- Represents 90 different species since start of WMR




- Invasive/nonnative species account for about 30% of the reported incidents each year.

# Wildlife Mortality Report
# Key Findings

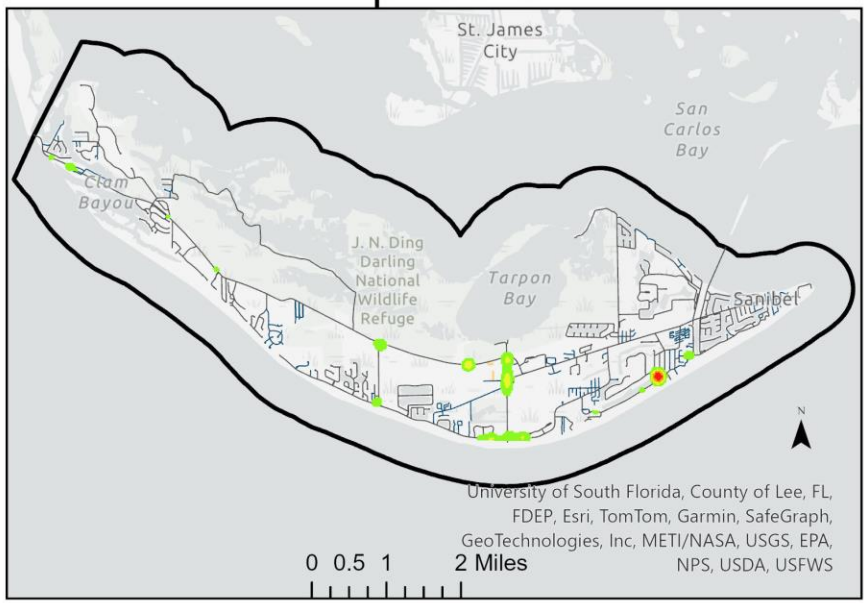


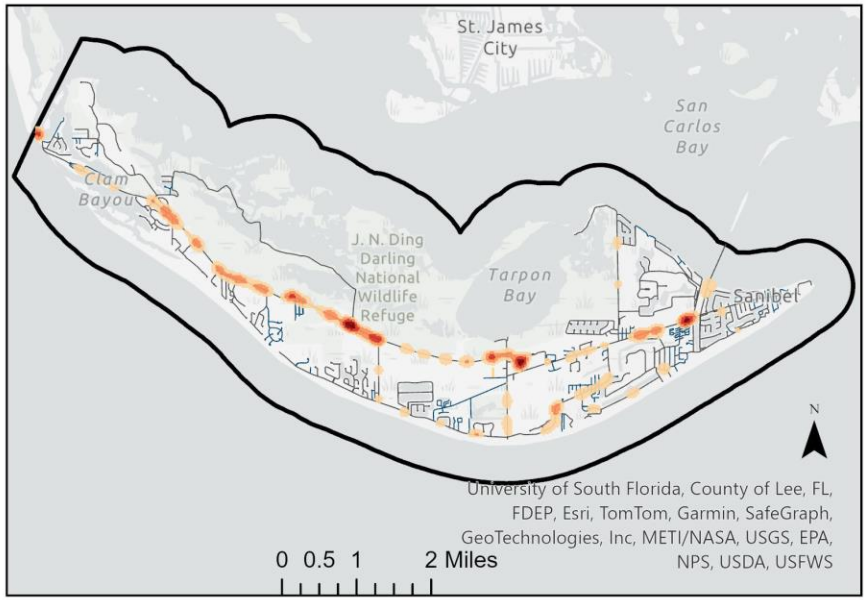
- **Most Frequent Species:** Eastern Screech Owl (60YTD)
- **Road with Most Incidents:** Sanibel Captiva Road (147YTD)

- GPS data points were used to generate heat map. Image was made in partnership with City, SCCF and Unity Environmental University.

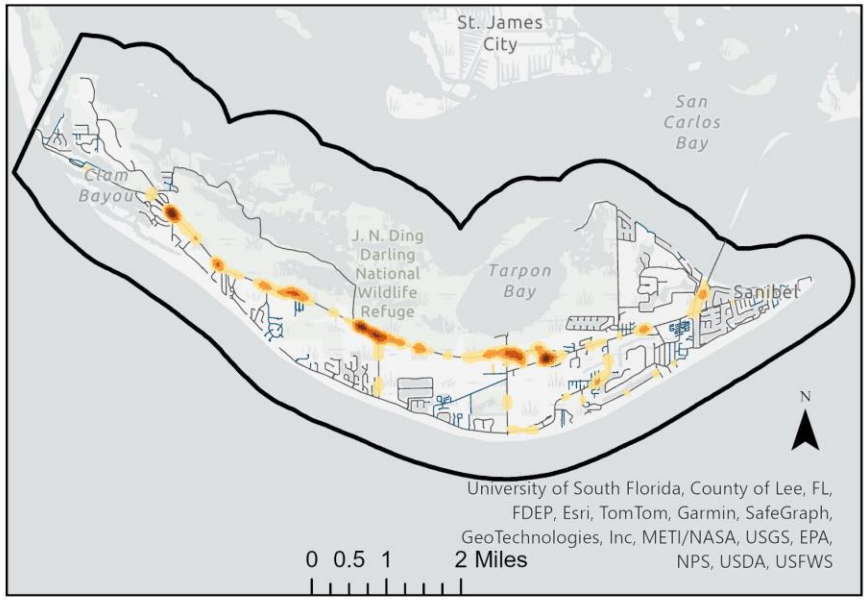
## Amphibians



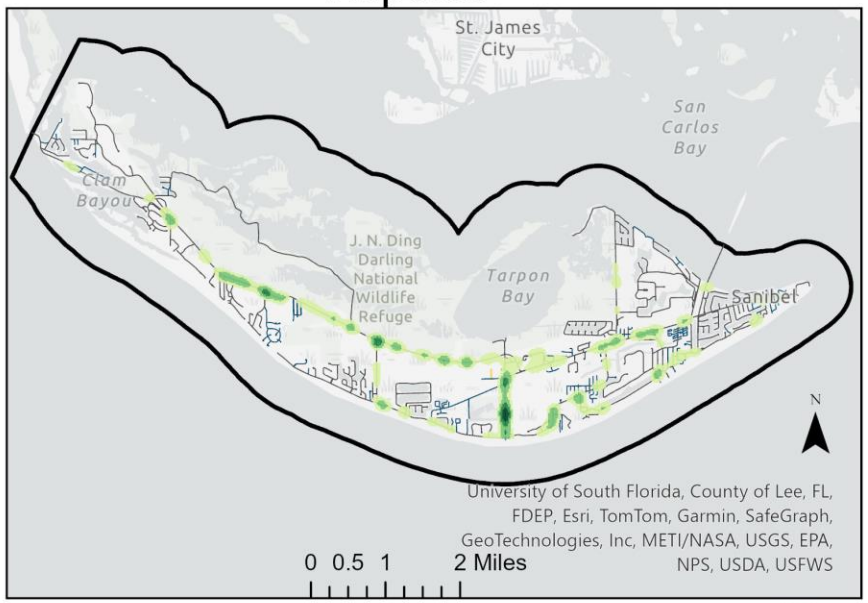

## Birds




## Mammals




## Reptiles




SCCF SANIBEL-CAPTIVA CONSERVATION FOUNDATION

# Staff Recommendations for Wildlife Signage

- Based on the WMR, staff recommends deployment of wildlife crossing signage at the following locations:
  - Sanibel Captiva Road (near Tarpon Bay Road 4-way stop)
  - Sanibel Captiva Road (near Rabbit Road intersection)
  - Sanibel Captiva Road (near Wulfert Road/Wildlife Drive access)
  - Tarpon Bay Road (near entrance to Bailey Tract)
- Staff would also recommend further discussion on traffic calming strategies at the following location:
  - Sanibel Captiva Road (Legion Curve)











# "Low Flying Owls" Wildlife Signage

- Pair of signs that were placed on either side of MM5 and MM7 following citizen-led initiative by resident Doris Hardy.
  - April 2015 - City Council approves installation of (2) lighted owl signs
  - June 2015 - Lighted owl signs installed
  - November 2018 - Lighted signs removed for repair
  - January 2019 - Signs replaced without lighting (per City Council direction)
  - March 2019 - City Council votes to replace signs with amended verbiage and no lighting
  - July 2019 - Replacement signs (amended verbiage, no lighting) installed
- Signs were damaged from Hurricane Ian and have yet to be reinstalled.

# "Please" "Slow" "Down" "For Us" Wildlife Signage

- Series of 4 multilingual signs with different animals located on Sanibel Captiva Road (near Tarpon Bay) and another on Sanibel Captiva Road (near Blind Pass).
- Sign size was 3x4 and each animal had reflective eyes for nighttime visibility (compared to lights on low flying owl signage).
- They were removed in 2013 due to being "at the end of their useful life".






# "Gopher Tortoise Crossing" Wildlife Signage

- Gopher tortoise crossing signage has been historically used on Sanibel and is still in use today.
- Based on historical placement, current site conditions, and population density, residents will contact Natural Resources to request signage.
- City staff then schedules meeting with residents to evaluate signage location and installation schedule.









# Benefits of Wildlife Mortality Monitoring & Reporting

- Wildlife Conservation and Biodiversity Monitoring
- Transportation & Infrastructure Planning
- Public Safety & Welfare
- Scientific Research & Education



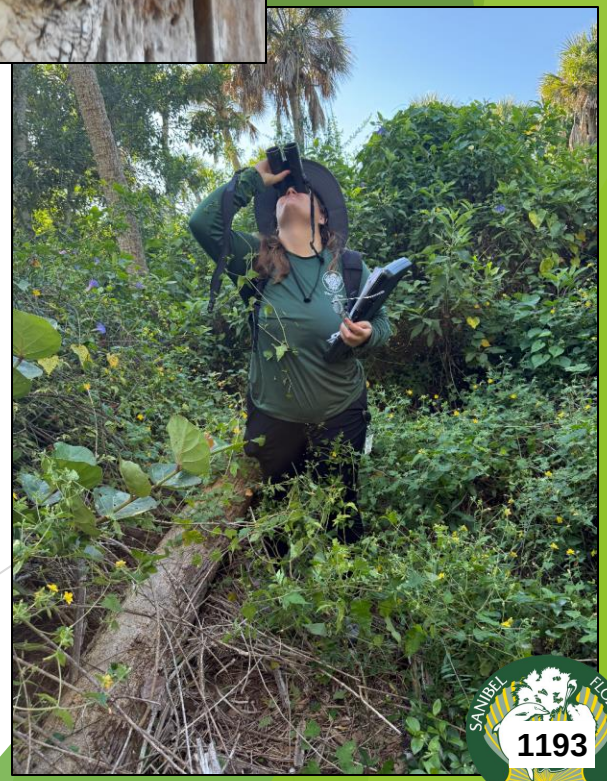


Photo Credit: FWC



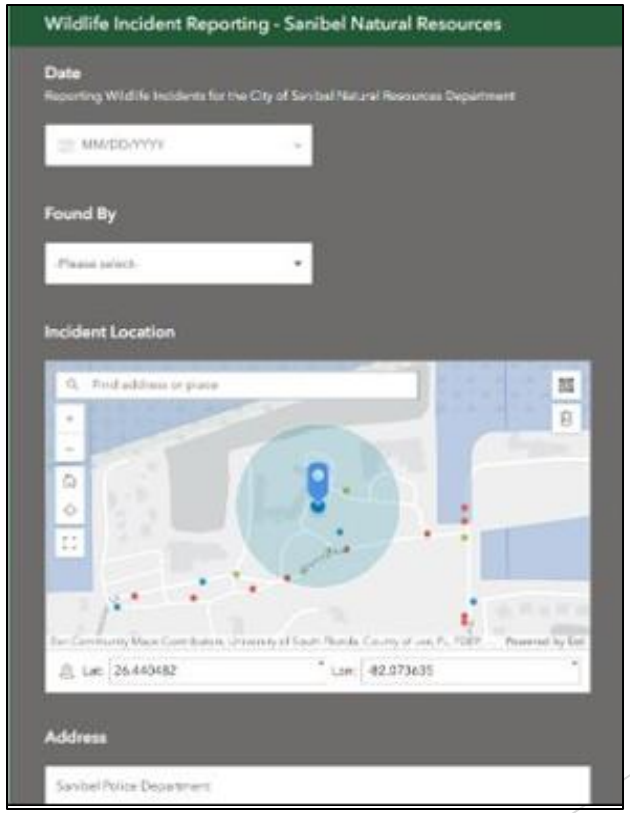
City Staff Striped Skunk Sighting – Dec 2024

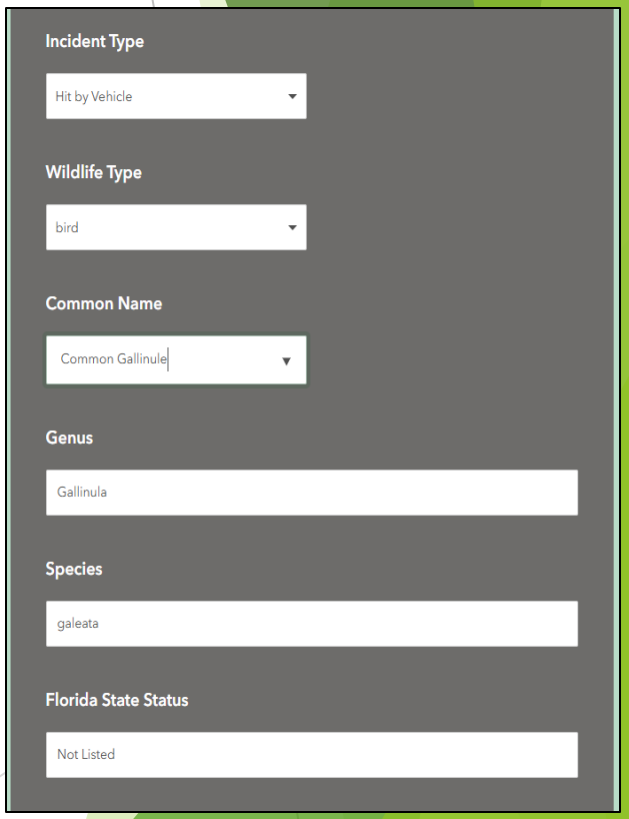



Florida Softshell Turtle - Post Hurricane Ian

# Wildlife Mortality Report Surveying Tool & Dashboard

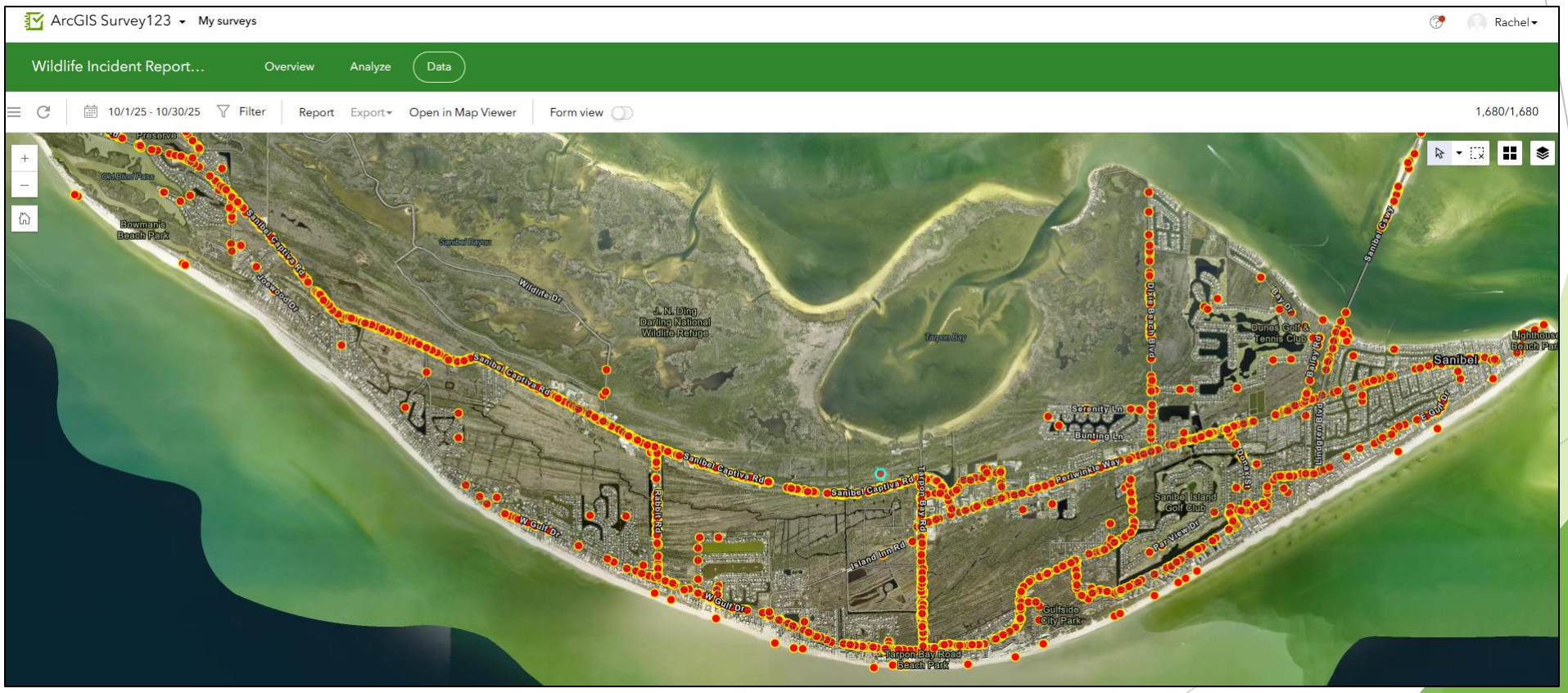
- As of October 2025, the WMR data points were fully integrated into ESRI Survey123, a GIS-enabled platform created by the locally owned Hammerhead Technology firm.
- The platform is designed to make data collection simple and intuitive, especially for field workers, and integrates the collected data with the rest of the City's preexisting license with ArcGIS.
  - Public dashboard can be generated to communicate the data with clear visual displays in an open, user-friendly format.



# Questions?

## Demonstration of Survey123 Application



**AGENDA MEMORANDUM** *City Clerk*

**City Council Meeting Date: April 21, 2026**

**To:** City Council

**From:** Scotty Lynn Kelly, FCPC, MMC
City Clerk

**Date:** April 14, 2026

---

**SUBJECT**: Discussion regarding the City Council Liaison List

**BACKGROUND**:

Annually, the City Council reviews Liaison assignments that have been traditionally filled by City Councilmembers. The City Council Liaison List approved by City Council in 2025 is attached.

City Councilmembers should discuss and consider appointments/reappointments as liaisons to the City, Regional, and State Organizations.

**RECOMMENDED ACTION**:

Discussion and direction.

# City Council Liaisons
# Consideration April 21, 2026

| City of Sanibel<br>Boards, Committees and Commissions | 2025 Representative | 2026 Representative |
|---|---|---|
| **Planning Commission**<br>*meets 9 a.m. on the 2nd and 4th Tuesday of each month | Liaison – Mayor Miller<br>Alt. – Councilmember DeBruce | Liaison –<br>Alt. – |

| Organizations City Provides<br>Annual Funding | 2025 Representative | 2026 Representative |
|---|---|---|
| **BIG ARTS** | Liaison – Councilmember Henshaw | Liaison – |
| **Community Housing and Resources Board (CHR) and Coast & Inland Community Land Trust (CHR)** | Liaison – Councilmember DeBruce<br>Alt. – Councilmember Johnson | Liaison –<br>Alt. – |
| **Historical Museum and Village Inc.** | Liaison – Councilmember Henshaw<br>Alt. – Councilmember Johnson | Liaison –<br>Alt. – |

| Island Wide Boards and Committees | 2025 Representative | 2026 Representative |
|---|---|---|
| **Sanibel Captiva Chamber of Commerce – Intergovernmental Affairs Committee** | Liaison – Mayor Miller<br>Alt. – Vice Mayor Smith | Liaison –<br>Alt. – |

# City Council Liaisons
# Consideration April 21, 2026

| Regional | 2025 Representative | 2026 Representative |
|---|---|---|
| **Coastal Heartland National Estuary Partnership (CHNEP) Policy Committee** | Liaison – Mayor Miller | Liaison – |
| **Horizon Council** | Liaison – Vice Mayor Smith | Liaison - Councilmember Smith |
| **Lee County Coalition of Mayors** | Liaison - Mayor Miller | Liaison - Mayor |
| **Lee County Causeway - Emergency Passage and Disaster Planning; Lee County Causeway – Tolls** | Liaison – Mayor Miller | Liaison – |
| **Sanibel School PTA/PTO; Sanibel School Fund** | Liaison – Councilmember DeBruce<br>Alt. – Councilmember Henshaw | Liaison –<br>Alt. – |
| **Lee County School District**<br>*Separated from Sanibel School PTA/PTO; School Fund 7/16/23 | Liaison – Vice Mayor Smith | Liaison – |
| **Metropolitan Planning Organization (MPO) and Metropolitan Planning Organization Executive Committee (MEC)** | Liaison – Mayor Miller (Chair)<br>Alt. – Councilmember Johnson | Liaison –<br>Alt. – |
| **Tourist Development Council (TDC)** | Liaison – Vice Mayor Smith | Liaison – |

| Lee County Recovery Task Force | 2025 Representative | 2026 Representative |
|---|---|---|
| **Lee County Recovery Task Force – Resilient Lee**<br>Representative selected by Lee County | Vice Mayor Smith<br>*To revisit if Task Force reconvenes | |

# City Council Liaisons
# Consideration April 21, 2026

| National, State & Local Leagues and Conferences | 2025 Representative | 2026 Representative |
|---|---|---|
| **United States Conference of Mayors** | Mayor Miller | Mayor |
| **National League of Cities Voting Delegate** | Vice Mayor Smith | Will be in July/August |
| **Florida League of Cities (FLC) Voting Delegate**<br>*Voting member for Legislative Conference in August | Vice Mayor Smith | |
| **FLC At-Large Member Legislative Committee**<br>*Appointed by the League President | Vice Mayor Smith | |
| **FLC Legislative Policy Committee: Utilities, Natural Resources & Public Works Committee**<br>*Appointments Announced in July/August | Councilmember Johnson | |
| **FLC Legislative Policy Committee: Development, Code Compliance, and Redevelopment Committee**<br>*Appointments Announced in July/August | Councilmember DeBruce | |
| **FLC Legislative Policy Committee: Municipal Operations Committee**<br>*Appointments Announced in July/August | City Staff – Dana Souza | |
| **FLC Legislative Policy Committee: Finance and Taxation Committee**<br>*Appointments Announced in July/August | Mayor Miller | |
| **FLC Legislative Policy Committee: Intergovernmental Relations, Mobility and Emergency Management Committee**<br>*Appointments Announced in July/August | Councilmember Henshaw | |

# City Council Liaisons
# Consideration April 21, 2026

| National, State & Local Leagues and Conferences | 2025 Representative | 2026 Representative |
|---|---|---|
| **FLC Mayor's Round table** | Mayor Miller | Mayor |
| **Florida League of Cities Federal Strike Team (FAST)** *Appointed by the League President | Vice Mayor Smith | |
| **Florida Municipal Loan Council (FMLC)** *Appointed by the League President | Vice Mayor Smith | |
| **Florida Municipal Pension Trust Fund (FMPTF)** (3-year term) (2-term limit) | | Councilmember Miller *1st year, 1st term |
| **Florida Municipal Insurance Trust (FMIT) Board of Directors** (3-year term) (2-term limit) | Councilmember Johnson | Councilmember Johnson *1st year, 2nd term |
| **Southwest Florida League of Cities (SWFLC)** *Succession in leadership role | Vice Mayor Smith | |

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager

**Date:** April 10, 2026

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**SUBJECT:** Consideration of adding "miniature golf" to the Land Development Code as an allowable conditional use.

**BACKGROUND**: At the March 31, 2026, City Council meeting, Vice Mayor Smith requested and received the City Council's consensus to add a discussion item to the April 21, 2026, City Council meeting agenda regarding the addition of "miniature golf" as an allowable conditional use within the Land Development Code.

This request was made on behalf of the owners of the Island Cow, who are interested in developing a miniature golf course to serve both Sanibel residents and visitors. The property owners view this concept as a community amenity that would provide a recreational activity for both residents and island vacationers.

Currently, Chapter 126 (Zoning), Article II (Conditional Use Permits), Section 126-35 (Recreation Facilities) of the Land Development Code limits conditional uses for recreation facilities to the following: "country clubs, private swim clubs, racquetball courts, tennis courts, or golf courses, or any combination thereof."

The owner of the Island Cow, Brian Polasek, through his attorney, Raychel Thomas, has submitted a project outline, conceptual renderings of the proposed miniature golf course and restaurant enhancements, and a draft site plan. These materials are included in the agenda packet for this item. The owner is proposing to add a new conditional use within the General Commercial zoning district specific to miniature golf. The site plan has not been formally reviewed by the City Planning Department, Public Works, or Natural Resources, and is provided for illustrative purposes only.

The Island Cow property includes both residential and commercial zoning. The proposed miniature golf development would be located entirely within the commercially zoned portion of the parcel.

The City Council is asked to discuss this request and consider whether to direct the Planning Commission to evaluate the proposed amendment.

**FUNDING SOURCE: N/A**

**RECOMMENDED ACTION**:

1. Discussion and direction.

2. Consider directing the Planning Commission to evaluate the property owner's request to add "miniature golf" as an allowable conditional use in the Land Development Code.

**Addition of "miniature golf" to the Sanibel Land Development Code**

Proposing to add "miniature golf" as a conditional use in the general commercial (GC) zoning district to ultimately provide a unique commercial recreation facility to residents and on-island visitors to Sanibel. This use provides an alternative golfing experience limited to putting that accommodates the broad range of ages and experience levels across the island community.

Conditional use authorization allows for conditions to ensure the project meets the purpose of the commercial districts and is consistent with the land development code and conforms with the Sanibel Plan.

Limited to commercial zoning for compatibility with designated locations.

- Use substantial native vegetation in the buffering and landscaping of the development to reflect Sanibel's character as a sanctuary and barrier island.
- Provide sufficient buffering from the street and neighboring residential areas.
- Promote alternative forms of travel and accessibility, including pedestrian and bicycle access.
- Use of permeable and ecologically friendly materials for the custom course.
    - No "novelty" components such as windmills, statues, blinking lights, etc.
- Provide traffic study to show that traffic flow will not be adversely affected.
- Provide sufficient off-street parking.


ISLAND COW
COUNTRY CLUB
Wheir Island Charm Mesis. de 18^ Hole


Strauss Theater
Egret Cir
Egret Cir
Periwinkle Way
Periwinkle Way
Dunlop Rd
Periwinkle Way
Periwinkle Way
Periwinkle Place
Island Cow Property
2163 Periwinkle Way
Meridian Dr
Sanibel Community Park
Island Cow General Commercial Area
2163 Periwinkle Way
Sunrise Cir
Sunset Cir
Sunset Cir






ISLAND COW
COUNTRY CLUB
Wheir Island Charm Mesis. de 18^ Hole


ISLAND COW
COUNTRY CLUB


RETAIL
MERCHANDISE
FULL-SIZE
KITCHEN
DINING
OUTDOOR
TERRACE
BAR
OUTDOOR
TERRACE
OUTDOOR
TERRACE

# Island Cow Property
# Proposed Site Plan
2163 Periwinkle Way



# City of Sanibel

800 Dunlop Road
Sanibel, FL 33957

## Meeting Minutes - Draft
## City Council

**Tuesday, March 3, 2026** | **9:00 AM** | **MacKenzie Hall - 800 Dunlop Road**

## 1. CALL TO ORDER

The meeting convened at 9:00 a.m.

## 2. INVOCATION AND PLEDGE OF ALLEGIANCE (Councilmember Henshaw)

Councilmember Henshaw gave the Invocation and led the Pledge of Allegiance.

## 3. ROLL CALL

**Present:** 5 - Mayor Mike Miller, Vice Mayor Holly Smith, Councilmember Laura DeBruce, Councilmember John Henshaw, and Councilmember Richard Johnson

## 4. SET THE AGENDA

Mayor Miller noted two time certain items and spoke to a walk-on item relating to amending the currently approved meeting schedule, advising the item should be heard before item 11.

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to amend the agenda by adding a walk-on item before Item 11 (First Readings). The motion carried by unanimous voice vote.**

## 5. PLANNING COMMISSION REPORT (Commissioner Burns)

Commissioner Tiffany Burns reported on the February 24, 2026 Planning Commission meeting and the Land Development Code (LDC) Subcommittee meeting held the same day.

At the Planning Commission meeting, four items were considered. A variance for installation of a boat lift at 661 Anchor Drive was approved unanimously with four conditions - the first variance under new dock and lift code provisions for mangrove canals. A deviation from floor area ratio requirements for the redevelopment of the fire station at 2351 Palm Ridge Road was approved unanimously with four conditions, noting an overall decrease in impervious coverage despite the increased floor area calculation. A conditional use permit for bicycle rentals and a formula retail store (Unlimited Biking) at 2407 Periwinkle Way was approved 6-0 with 10 conditions, with one commissioner abstaining due to a conflict of interest. Applications for a conditional use permit for increased density for below-market-rate housing and associated variances for a 39-unit multifamily development at 1523 Periwinkle Way (the former fish house site) were approved 5-1, with Vice Chair Steiner abstaining due to her role on the Community Housing Resources (CHR) board. These

applications will come before City Council on March 17, 2026. Commissioner Burns also noted that Deputy Planning Director Craig Chandler had accepted a position in Missouri and that his last meeting was February 24.

At the LDC Subcommittee meeting, four items were discussed and unanimously advanced for staff to draft proposed code language. These included updates to vegetation buffer standards (originally from 1985), provisions allowing conforming and nonconforming homes to elevate to 10 feet in connection with flood compliance, revisions to front yard standards to simplify setback requirements, and modifications to limitations on principal structures to remain applicable to CHR projects. The March 10 Planning Commission meeting was canceled; the next meeting will be March 24.

Discussion ensued regarding the home elevation discussion held at the LDC meeting.

## 6. PUBLIC COMMENTS FOR NON-AGENDA ITEMS

Public Comments:
- Ed Holden - Tax Payer - suggested the installation of a publicly accessible camera on the pier at Lighthouse Point.
- David Romano - Starling Way - spoke at length about what he described as significant environmental damage to Blind Pass resulting from the Captiva beach renourishment project, including substantial sand deposition that has degraded seagrass habitat, reduced water depths in adjacent canals, and is threatening to close the pass entirely. He urged the Council to pursue accountability from Captiva's engineers and expedite remediation..

Council acknowledged the concern; Vice Mayor Smith and Councilmember DeBruce indicated they had requested that Natural Resources Director Holly Milbrandt provide a full update later in the meeting under Informational Item 16(b). Councilmember Henshaw expressed interest in a broader coastal study to evaluate the long-term dynamics of the island's shoreline and the effectiveness of beach renourishment generally.

## 7. PRESENTATION(S)

**a.** Fishing Pier Temporary Repairs Pending Full Replacement

Mayor Miller welcomed Recreation Director Andrea Miller, Recreation Staff, and VCB Customer Service Hospitality Specialist Crystal Wanke. Ms. Wanke presented the Certified Guest Service Property designation to the City of Sanibel Recreation Center on behalf of the American Hotel and Lodging Educational Institute and the Lee County Visitor and Convention Bureau (VCB). The designation is awarded when 100 percent of frontline employees are trained and certified as Certified Guest Service Professionals (CGSPs).

**b.** Presentation of Proclamation for Flood Awareness

Mayor Miller read into record a proclamation designating March 9-15, 2026 as Flood Awareness Week in the City of Sanibel, encouraging residents to learn about flood risks and take protective action. Building Official Craig Mole, serving as the City's Floodplain Manager, reported that the City had maintained its Community Rating System (CRS) Class 5 rating - which provides residents a 25 percent reduction in flood insurance premiums - and that the City had earned sufficient points to potentially achieve a Class 4 rating, pending FEMA's resumption of funding. Mayor Miller also noted an upcoming flood protection expo at the Community House on Friday, March 20, from 5:00-8:00 PM.

## 8. 9:05 - SECOND READING AND PUBLIC HEARING

**a.** Smoking on Beaches Ban

**ORDINANCE 26-001 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, EXPANDING THE PROHIBITION OF SMOKING, TO INCLUDE VAPING, WITHIN ALL PUBLIC PARKS AND PUBLIC BEACHES OWNED BY THE CITY OR LEE COUNTY WITHIN THE CITY'S JURISDICTION, BY AMENDING SANIBEL CODE OF ORDINANCES CHAPTER 36, HEALTH AND SANITATION, ARTICLE III, SMOKING PROHIBITIONS, DIVISION 1, BY ADDING A NEW SECTION 36-67, DEFINITIONS AND AMENDING DIVISION 2, TOBACCO FREE PUBLIC SPACE, SECTION 36-78, THE CITY OF SANIBEL COMMUNITY PARK; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

City Attorney John Agnew read into record the title of Ordinance 26-001, which expands the prohibition of smoking and vaping to all public parks and public beaches owned by the City or Lee County within the City's jurisdiction, including parking lots and beach access ways. City Manager Souza noted that state law provides a carve-out for unfiltered cigars, which cannot be prohibited under Florida Statute.

Discussion ensued regarding the ordinance being consistent with actions taken by the Lee County Board of County Commissioners and is being considered by Fort Myers Beach as well.

Public Comment:
- Sally Kreuscher, Director of Community Health at Lee Health and Chairperson of Tobacco Free Lee, expressed strong support on behalf of the coalition of health and community organizations.

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to adopt Ordinance 26-001. The motion carried unanimously.**

## 9. 9:15 A.M. - PUBLIC HEARING

**a.** Island Water Association (IWA) Water Rates

**RESOLUTION 26-009 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPROVING AN ADJUSTMENT TO THE ISLAND WATER ASSOCIATION, INC., WATER RATES AND CHARGES; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Resolution 26-009. Island Water Association (IWA) General Manager Diana Wilson presented the background and rationale for the proposed rate adjustment - the first in 16 years - noting that rising inflation, aging infrastructure, and the need for storm resiliency investments necessitate the increase.

Financial Consultant Henry Thomas, of Raftelis Financial Consultants, presented the results of an independent rate and fee study. The proposed increases, phased over three years beginning June 1, 2026, with subsequent adjustments in January 2027 and January 2028, would remain among the lowest in the Southwest Florida region. The rate study also recommended new membership connection fees for new construction and the establishment of a five-year emergency reserve fund capped at $5 million. IWA has secured nearly $45 million in grants and forgivable or zero-interest loans, primarily through FDEP, which reduced the original proposed annual increase from 21 percent to approximately 18 percent.

Council discussion focused significantly on the 60 percent of potable water estimated to be used for irrigation. Council members expressed concern about this high irrigation demand and advocated for stronger rate incentives for conservation, as well as education efforts targeting irrigation efficiency. Mr. Thomas acknowledged that price elasticity is limited among high-income property owners with significant landscape investments and recommended a future look at tiered rate structures. Ms. Wilson confirmed IWA intends to address irrigation rates and education in upcoming planning cycles. Council commended the transition away from gas chlorination to a safer sodium hypochlorite method projected to be operational in 2028.

Council inquired about the new connection fees placing IWA in the higher range of regional peers for new construction, though Mr. Thomas clarified the fee increase was overdue since 2009 and applies only to new construction, not rebuilt or existing properties. Council further inquired about the potential for a more regular rate review cycle going forward; Ms. Wilson confirmed that IWA would conduct a review well before the 2028 end date of this rate plan.

Public Comments:
- Ed Holden - Sanibel Resident - spoke to the need for penalties for watering during a

drought or watering the roadways, as well as, to expand the reclaimed water system
- Mitch Koppelman - Sanibel Resident - inquired if there were an investment plan for the reserve funds and recommended the topic of irrigation come back to Council
- Roger Grogman - Sanibel Resident - spoke to the quality and content of the presentation, expressing appreciation for the long-term consideration
- Tiffany Burns - Sanibel Resident - spoke to concerns with the high cost for new construction connections

City Manager Souza clarified that expanding the reuse water system is constrained by seasonal supply limitations - volume is greatest during the rainy season when irrigation demand is lowest, and vice versa.

**Vice Mayor Smith moved, seconded by Councilmember Johnson, to adopt Resolution 26-009 approving IWA's requested adjustment to the water rates and charges in accordance with the franchise agreements. The motion carried by unanimous vote.**

## 10. DISCUSSIONS OF DRAFT LEGISLATION

**a.** E-Bikes

**Discussion Only - ORDINANCE 26-003 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING CHAPTER 66, TRAFFIC; ARTICLE V, BICYCLES, MICROMOBILITY DEVICES, MOTORIZED SCOOTERS, AND MOPEDS, SECTION 66-165, DRIVING ON A BICYCLE PATH; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Councilmember DeBruce spoke to her conflict of interest due to being an owner of a business that rents e-bikes and recused herself from the discussion and vote. Recreation Director Andrea Miller provided background on Ordinance 26-003, which had been drafted following the February 3 City Council meeting directing staff to address Class 2 and Class 3 e-bike operation on the shared use path.

Council engaged in an extended and substantive debate on whether to allow Class 2 and Class 3 e-bikes on the shared use path, with no clear consensus to proceed with the ordinance as drafted. Councilmember Henshaw expressed strong opposition to expanding e-bike access, arguing that allowing higher-class e-bikes would effectively convert the shared use path from a resident amenity to an attraction drawing outside users. He was particularly concerned about throttle-operated Class 2 bikes, the weight and mass of modern e-bikes, and the safety implications for pedestrians and slower cyclists. He proposed the possibility of a registration or permitting system that would limit Class 2 and Class 3 access to registered residents while controlling off-island visitor use.

Vice Mayor Smith expressed similar safety concerns, noting she had observed dangerous behavior on the path in recent weeks and feared a serious or fatal incident. She questioned whether the existing ranger and police program had adequate

enforcement capacity. She was unwilling to support passage of the ordinance in its current form but expressed openness to a phased or pilot approach and asked whether a registration program for residents could serve as a compromise.

Mayor Miller acknowledged that Class 2 and Class 3 e-bikes are already present on the path - effectively a de facto pilot program - and noted that the legislative trend across jurisdictions is to regulate behavior and speed rather than vehicle class. He also pointed out that residents who own Class 2 or Class 3 bikes are legally forced onto roadways that are not safely designed for cyclists if the path remains restricted.

Police Chief William Dalton presented speed data from a radar device deployed west of Rabbit Road, showing an average speed of 11.7 mph and an 85th-percentile speed of 14 mph among nearly 15,000 vehicles, suggesting that behavior on the shared use path at that location is largely within acceptable bounds. Chief Dalton noted that rangers can issue notices to appear (NTAs) for violations, that only one such notice had been issued to date, and that enforcement remains challenging given the public's general resistance to regulation in this area.

Councilmember Johnson supported the principle of expanding access for residents and advocated for regulating behavior rather than vehicle type. He expressed interest in a registration program that would allow residents and island employees to use Class 2 and Class 3 bikes on the path, while excluding off-island rental companies and visitors from that privilege.

Council ultimately reached a general consensus around directing staff to explore the feasibility of a registration or permitting program for Class 2 and Class 3 e-bikes limited to residents and specified business categories, with some mechanism for visual identification. City Manager Souza indicated staff could develop options for Council's review. Councilmember Henshaw withdrew his motion to allow staff to return with a more refined proposal, and no vote was taken on Ordinance 26-003.

**Councilmember Henshaw moved, seconded by Mayor Miller, to ask the city manager and staff to evaluate how we might provide registration for residents and rental businesses, to identify and control the class 1, 2, and 3 vehicles on the island, with the idea that we would allow residents the ability to register and use the class 2 and class 3 vehicles. The motion was withdrawn.**

Public Comment:
- Basil Rudawsky - Sanibel Resident - spoke to concerns with classifications, noted support of a licensing or registration program, and advising class 3 e-bikes are very different
- Larry Schopp - Sanibel Resident - recommended keeping class 2 e-bikes off the paths and support of the alternative registration program for residents and employees
- Ed Holden - Sanibel Resident - spoke to software available for analyzing video for "near misses" on the paths and recommended using a radio frequency identification (RFID) system for registering bikes

- Mike Raab - Sanibel Resident - avid rider, spoke to concerns with motorized bikes with pedal assist, and not being in support of an RFID system
- Steve Brown, Jr. - Sanibel Resident - advised Billy Bike's does not rent or sell anything but Class I and noted concerns that e-bikes will end up on the streets
- Dan Pacyga - Sanibel Resident - spoke to concerns with trying to limit use of class 2 and class 3 e-bikes to residents,
- Chet Sadler - Sanibel Resident - on behalf of Committee of the Islands (COTI) - recommended classifying class 2 and 3 e-bikes as motorcycles and noting the need for education and policing to ensure safety
- Roger Grogman - Sanibel Resident - spoke in support of a registration program and allowing a benefit to residents and employees

The meeting recessed at 12:11 p.m. and reconvened at 12:31 p.m.

Walk-on Item - Resolution 26-011

City Attorney Agnew read into record the title of Resolution 26-011, proposing the rescheduling of the March 17, 2026 City Council Regular Meeting to March 31, 2026. Vice Mayor Smith explained the request stemmed from her planned travel to Washington, D.C. on behalf of the City for state and national policy advocacy.

Discussion revealed that the CHR affordable housing ordinances required a first reading at City Council in order to meet a county application deadline, and that this could be accomplished in a special meeting within the available timeframe. Council agreed that the regular meeting on March 17 should be retained as a special meeting for specific limited business, with a new regular meeting established on March 31 to serve as the broader second March meeting.

**Vice Mayor Smith moved, seconded by Councilmember Henshaw, to adopt walk-on Resolution 26-011 amending the 2026 meeting schedule. The motion carried.by unanimous vote.**

**Councilmember Henshaw moved, seconded by Councilmember DeBruce, to call a special meeting at 9am on Tuesday, March 17, 2026 to address the time sensitive CHR items and second reading of the milestone ordinance. The motion carried by unanimous vote.**

## 11. FIRST READING OF AN ORDINANCE AND SCHEDULING OF PUBLIC HEARING

**a.** Milestone Inspections

**ORDINANCE 26-002 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE SANIBEL CODE OF ORDINANCES, CHAPTER 14, BUILDINGS AND BUILDING REGULATIONS, ARTICLE VII, MANDATORY INSPECTION OF AGING CONDOMINIUM AND COOPERATIVE BUILDINGS, SECTION 14-323, INSPECTION, REPORTING, AND REPAIRS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Ordinance 26-002.

Second reading and public hearing scheduled for 9:05 a.m., Tuesday, March 17, 2026.

**b.** E-Bikes

**ORDINANCE 26-003 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING CHAPTER 66, TRAFFIC; ARTICLE V, BICYCLES, MICROMOBILITY DEVICES, MOTORIZED SCOOTERS, AND MOPEDS, SECTION 66-165, DRIVING ON A BICYCLE PATH; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

This item was not moved to first reading.

## 12. COMMITTEES BOARDS COMMISSION

**a.** Appointing Members to Historical Preservation Committee

**RESOLUTION 26-007 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPOINTING MEMBERS TO THE HISTORICAL PRESERVATION COMMITTEE FOR ONE-YEAR TERMS BEGINNING MARCH 4, 2026, AND EXPIRING MARCH 15, 2027; AND PROVIDING AN EFFECTIVE DATE** (Applicants listed in alphabetical order by last name)

City Manager Souza passed out ballots. Mayor Miller noted the minimum requirement is 5 members. Attorney Agnew read into record the title of Resolution 26-007 and tallied the votes as unaimous for all 5 applicants.

**Councilmember Johnson moved, seconded by Councilmember DeBruce, to adopt Resolution 26-007 appointing Emilie Alfino, Mary Bondurant, Deborah Gleason, Mary Jurgens, and Patricia Norton to the Historical Preservation Committee. The motion carried by unanimous vote.**

**b.** Appointing Members to Vegetation Committee

**RESOLUTION 26-008 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPOINTING MEMBERS TO THE VEGETATION COMMITTEE FOR ONE-YEAR TERMS BEGINNING MARCH 4, 2026, AND EXPIRING MARCH 15, 2027; AND PROVIDING AN EFFECTIVE DATE** (Applicants listed in alphabetical order by last name)

City Manager Souza passed out ballots. Mayor Miller noted the minimum requirement is 5 members. Attorney Agnew read into record the title of Resolution 26-008 and tallied the votes as unanimous for all applicants.

**Vice Mayor Smith moved, seconded by Councilmember Henshaw, to adopt Resolution 26-008 appointing Barbara Boyce, Barbara Horvath, Pamela Miller, David Muench, and Vincent Simonelli as full members, and Ruth Brooks as an adjunct member, to the Vegetation Committee. The motion carried by unanimous vote.**

## 13. OLD BUSINESS

**a.** Florida Municipal Insurance Trust (FMIT) Trustee Nomination

**Vice Mayor Smith moved, seconded by Councilmember DeBruce, to authorize City Manager Souza to submit the nomination for Councilmember Richard Johnson to serve on the Florida Municipal Insurance Trust. The motion carried.**

**b.** Speed Study & All Way Stop Layout PowerPoint Presentation

City Manager Souza provided a brief background for the item. City Engineer Oisin Dolley and Leah Holmes of Johnson Engineering presented the findings of the citywide speed and passing zone study. Key findings included an 85th-percentile speed of 37-43 mph on Sanibel-Captiva Road (posted 35 mph), 35 mph on Periwinkle Way (at the speed limit), and 34 mph on Rabbit Road (posted 30 mph). The study recommended no change to the posted speed limit on Sanibel-Captiva Road, a reduction on East Periwinkle Way from 30 mph to 25 mph, and no change on Rabbit Road based solely on engineering data. Additionally, the study recommended eliminating most existing passing zones on major corridors - Sanibel-Captiva Road (except for two existing open stretches), Periwinkle Way, Gulf Drive, and Rabbit Road - in order to reduce conflict points associated with driveways and commercial access. Options for the Rabbit Road/Sanibel-Captiva Road intersection included a no-build scenario, an all-way stop, and the addition of dedicated turn lanes.

Council discussion was lengthy. Council members generally supported reducing the speed limit on East Periwinkle Way and expressed interest in reducing the Periwinkle Way commercial corridor (Tarpon Bay to the Causeway) from 35 mph to 30 mph. There was less consensus on Rabbit Road, with Councilmember Henshaw suggesting a reduced-speed zone in the vicinity of the school and Rabbit Road intersection as a traffic calming measure. The all-way stop option at Rabbit Road drew opposition from multiple council members. There was broad Council interest in incorporating wildlife mortality data into the review of passing zone changes before finalizing those recommendations. Councilmember DeBruce raised concerns that eliminating passing zones on Sanibel-Captiva Road without creating pullover lanes could increase driver frustration and road rage, particularly given slow-moving vehicles such as golf carts.

City Manager Souza committed to bringing back the East Periwinkle Way speed limit reduction as an action item for the March 31 meeting, along with additional analysis of wildlife mortality data cross-referenced with passing zone locations, a separate discussion on Periwinkle Way's commercial corridor speed, and options for pullover lane infrastructure tied to ongoing road resurfacing projects.

**c.** Sanibel Police Department Speed Management and Enforcement Priorities for 2025 and Initiation of

"Slow Down Sanibel" Campaign

Police Chief William Dalton presented the Department's speed enforcement data and announced the launch of the "Slow Down Sanibel" public education campaign. The Department deployed radar measurement devices at 15 locations, recording over 2 million vehicles; 4.37 percent exceeded the posted speed limit by 10 percent or more. In 2025, the Department conducted 3,755 radar assignments, made 3,877 total traffic stops, issued 2,700 warnings, and issued over 1,000 citations - a significant increase over 2024 levels attributable to the dedication of two officers to full-time traffic enforcement. DUI arrests rose from 11 in 2024 to 39 in 2025. The speed camera at the school issued over 1,500 citations. The "Slow Down Sanibel" campaign will utilize targeted digital advertising through Google, Facebook, and Instagram and a dedicated city web page. Chief Dalton noted that 94 percent compliance was achieved among those stopped, reflecting the effectiveness of education-based enforcement. Public Information Officer Eric Jackson described a four-month digital campaign targeting Sanibel and Captiva visitors with psychographic and geographic ad targeting, projecting 600,000-900,000 impressions.

**d.** Periwinkle Way/Causeway Boulevard Intersection Study with funding provided by the Lee County Metropolitan Planning Organization (MPO)

City Manager Souza summarized the history of the Periwinkle Way/Causeway Boulevard intersection study, noting that $160,000 in MPO planning funds had been awarded, and presented two options: (1) a topographic survey and overlay of the existing conceptual design for approximately $28,752, or (2) a full 30 percent design study for $160,115, including multiple public workshops, stakeholder meetings, and traffic analysis.

A key new element in the discussion was the introduction of a hybrid, single-to-two-lane roundabout concept, which had been developed by Kimley Horn following the prior December 2024 council discussion and presented by Bill Waddill and traffic engineer Ian Rairden. The hybrid design differs from a conventional two-lane roundabout in that lane boundaries are flexible, allowing better flow. Mr. Waddill cited federal and insurance industry data showing roundabouts reduce injury crashes by 75-80 percent and serious or fatal crashes by up to 90 percent compared to signalized intersections or four-way stops, and that the 16-stop-sign configuration at the current intersection is particularly hazardous for cyclists and pedestrians. He also referenced a Sarasota roundabout study showing a 15-minute peak-hour delay reduction.

Council discussion was extensive and at times contentious. Councilmember DeBruce questioned the need for further study given the depth of prior work, expressed skepticism about whether a roundabout would meaningfully resolve congestion given the causeway bottleneck, and preferred limiting expenditure to the survey. Councilmember Henshaw and Mayor Miller supported going to referendum but

argued the electorate needs sufficient information - particularly on the new hybrid two-lane concept - before voting, which they felt would require at least the survey and some degree of additional design work. Vice Mayor Smith expressed reservations about proceeding to the full 30 percent study and noted concerns about construction disruption on an island still in recovery. Councilmember Johnson expressed a willingness to proceed if the community could make an informed choice through referendum, and noted that a two-lane hybrid might address prior concerns about single-lane congestion. All members agreed the question should ultimately go to voters.

Council reached consensus on a phased approach: approve the full 30 percent design scope with the MPO, but structure Kimley Horn's work to first complete the topographic survey and conceptual overlay, pause for a referendum, and proceed to the remainder of the 30 percent work only if voters approve the roundabout. City Manager Souza confirmed that MPO Director Don Scott had agreed this phased structure was workable within the funding cycle. A community education program - including town hall meetings and frequently asked questions materials - would be conducted prior to the referendum, without advocacy for any particular outcome.

Public Comments:
- Chet Sadler - Sanibel Resident - recommended showing proof traffic would improve if a round-about were installed
- Mitch Koppelman - Sanibel Resident - recommended having models prepared to answer if getting off island will improve
- Mike Raab - Sanibel Resident - advised the need to correctly define the question as "How can you make traffic flow better?"

**Councilmember Johnson moved, seconded by Councilmember Henshaw, to proceed with the 30 percent design study for the Periwinkle Way/Causeway Boulevard intersection in a phased approach — completing the topographic survey and conceptual overlay first, conducting a community education process, holding a voter referendum, and proceeding to the full 30 percent design only upon a favorable referendum outcome. The motion carried by unanimous vote.**

**e.** Proposal for Architectural Services/Construction Administration Services for the Sanibel Police Station Project - Proposal from ADG Architecture (Supplement 1)

City Manager Souza explained that ADG Architecture's prior contract had expired, and that as the architect of record, ADG is the sole firm qualified to provide construction administration services for the Police Station project. The total budget for the project is approximately $17 million, funded through two state appropriations totaling $2 million and approximately $15 million in CDBG-DR funds. The proposal amount for construction administration services is $343,603.

**Councilmember Henshaw moved, seconded by Councilmember DeBruce, to approve the January 27, 2026 agreement with ADG Architecture for construction administration services and authorize the City Manager to execute the agreement. The motion carried by unanimous vote.**

The meeting recessed at 4:24 p.m. and reconvened at 4:35 p.m.

**f.** Recommendation on next steps for post Hurricane Ian bricks recovered from Lighthouse Beach Park site

Andrea Miller, Recreation Director, presented a proposal for staff to sell bricks recovered from the Lighthouse Beach Park cottages - currently stored in a rented mobile storage unit at approximately $4,400 in accumulated rental fees - with proceeds to fund future reimagination of the park site. Council expressed broad preference that the bricks remain on the island and be incorporated into a future commemorative or interpretive feature, potentially associated with a proposed pavilion or remembrance wall at or near the lighthouse site. City Manager Souza noted that Kimley Horn had done preliminary pro bono conceptual work for a pavilion at the site that would incorporate interpretive panels. Council directed staff to hold the bricks pending development of a more complete plan, and to explore integration with the funded pier project.

**g.** Florida Legislative Session 2026 (Supplement 1)

City Manager Souza provided an update on legislative matters. House Joint Resolution 203, related to property tax reform, passed the House on February 19 and has not moved in the Senate. House Bill 103, addressing the elimination of local business tax receipts, passed the House and has not moved in the Senate. The special act related to Lee County tourist development and Senate Bill 240 (auxiliary containers) similarly remain stalled in the Senate. Staff projected a possible special legislative session, with no announced date. Vice Mayor Smith, who was preparing to travel to Washington, D.C. on March 13-18 for advocacy on behalf of the City, urged the Council to approve the two prepared letters of opposition - one addressing property tax reform and one addressing the business tax receipt bill - and to authorize a third letter opposing House Bill 299 and Senate Bill 354 (the "Blue Ribbon Projects" bill), which would incentivize large-scale rural development and could have watershed and water quality implications for Sanibel.

**Vice Mayor Smith moved, seconded by Councilmember Johnson, to authorize submission of letters opposing House Joint Resolution 203 (with broad legislative distribution), House Bill 103 (to Senator Martin), and House Bill 299 / Senate Bill 354 (the Blue Ribbon Projects bill, with distribution to be determined in coordination with the City's lobbyist). The motion carried 5-0.**

## 14. NEW BUSINESS

**a.** Approval of the Fiscal Year 2027 Budget Adoption Calendar

Deputy City Manager/CFO Steve Chaipel presented the proposed budget calendar for Fiscal Year 2027, which follows the same general structure as prior years,

including two budget workshops in June and August and public hearings in September. Chaipel noted that concurrent work on a potential stormwater assessment - four responses to the RFP have been received and are under evaluation - will also intersect with the budget process.

**Councilmember DeBruce moved, seconded by Vice Mayor Smith, to approve the Fiscal Year 2027 Budget Adoption Calendar. The motion carried 5-0.**

## 15. CONSENT AGENDA

ADOPTION OF RESOLUTIONS

**a.** Grant G2Y52 Agreement Supplement 2

**RESOLUTION 26-010 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPROVING SUPPLEMENT NUMBER 2 TO GRANT AGREEMENT G2Y52 BETWEEN THE CITY OF SANIBEL AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION TO REPAIR AND REPAVE CERTAIN SECTIONS OF THE SHARED USE PATH SYSTEM; AUTHORIZING THE CITY MANAGER TO EXECUTE THE SUPPLEMENTAL AGREEMENT; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Resolution 26-010.

**Vice Mayor Smith moved, seconded by Councilmember Johnson, to adopt Resolution 26-010. The motion carried 5-0.**

## CONSENT ITEMS PULLED FOR DISCUSSION

Items 15(b), 15(c), 15(d), and 15(f) were pulled for separate discussion.

**b.** Adoption of Minutes

Councilmember DeBruce requested that the February 3, 2026 minutes be continued to the next meeting for correction of inaccuracies in the coyote management discussion.

**Councilmember DeBruce moved, seconded by Vice Mayor Smith, to continue the February 3, 2026 minutes to the March 31st meeting. The motion carried 5-0.**

**c.** Sanibel Isles / Water Shadows Civic Improvement Association request to serve alcohol at Bock Peace Park

Vice Mayor Smith confirmed, after clarification from staff, that this item requires Council approval because it involves a request to serve alcohol at a public park. No opposition was raised.

**Vice Mayor Smith moved, seconded by Councilmember Henshaw, to approve the Sanibel Isles/Water Shadows Civic Improvement Association's annual event permit request, including authorization to serve alcohol at Bock Peace Park. The motion carried 5-0.**

**d.** Request from The Dunes Golf & Tennis Club for Special Event Permit 26-071 Igram-Shircliff Wedding, to consider an accommodation to Chapter 30, Article III, Section 30

This item involved a request for accommodation to Chapter 30, Article III to allow outdoor amplified music with a DJ until midnight (rather than 10:00 PM) at a maximum of 60 dBA at the property line. Councilmember Johnson expressed concern about establishing a recurring accommodation pattern, while Vice Mayor Smith supported consistency of treatment, noting the accommodation was granted on policy grounds rather than personal ones. Director Miller confirmed that neither of the two previously approved Dunes events had yet occurred, and that no complaints had been received. Council agreed to approve the request and monitor outcomes from all three approved events before considering future requests.

**Vice Mayor Smith moved, seconded by Councilmember Johnson, to approve Special Event Permit 26-071 for the Igram-Shircliff wedding at The Dunes Golf & Tennis Club, including the accommodation to Chapter 30, Article III, Section 30. The motion carried 5-0.**

**f.** Approval of a proposal from Tetra Tech, Inc. to provide professional engineering services in the amount of $213,635 and authorize the City Manager to initiate the services

Mayor Miller pulled this item to note the ongoing issue of elevated chloride levels in the City's reuse water system, and to highlight that the proposed Tetra Tech scope of work - $213,635 for Phase 1 design engineering for wastewater collection system repairs - is directly related to reducing inflow and infiltration (I&I) that is contributing to elevated salinity in reclaimed water. Public Works Director Fred Mittl confirmed that 15 I&I locations have been identified, that 4 of 6 manhole repairs have been completed, and that the broader pipeline work funded through the proposed agreement is expected to be bid within a 3-million-dollar Phase 1 budget, with a second phase possible depending on outcomes.

**Vice Mayor Smith moved, seconded by Councilmember DeBruce, to approve the proposal from Tetra Tech, Inc. for professional engineering services in the amount of $213,635 for wastewater collection system repairs, Phase 1, and authorize the City Manager to initiate services. The motion carried 5-0.**

BUSINESS ITEMS

**e.** Approval of a contract with Villa-Fuerte Construction, LLC in the amount of $278,990 for the Beach Road Weir Restoration project and authorize the City Manager to execute the contract

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to approve the Consent Agenda. The motion carried.**

**g.** Approval of an agreement with Tritaik Consulting for Natural Resources and Environmental Consulting Services and authorize the City Manager to execute same (This does not increase the adopted FY2026 budget.)

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to approve the Consent Agenda. The motion carried.**

**h.** Approval of a proposal from Bowman Consulting Group, LTD to provide professional engineering services in the amount of $168,550.00 for Hurricane Ian related Shared Use Path (SUP) repairs phase 2 and authorize the City Manager to execute the agreement.

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to approve the Consent Agenda. The motion carried.**

**i.** Approval of a proposal submitted by Johnson Engineering for the Weir Resiliency for FY2026 in the amount of $214,630.00.

Approval of Consent Agenda Business Items 15(e), 15(g), 15(h), and 15(i).

**Councilmember Johnson moved, seconded by Vice Mayor Smith, to approve Consent Agenda Items 15(e), 15(g), 15(h), and 15(i). The motion carried 5-0.**

## 16. INFORMATIONAL ITEMS

**a.** Tradewinds Update

City Manager Souza reported that $650,000 has been included in the current state budget for the Tradewinds infrastructure project, a figure significantly below the $4.2 million sought, though there remains a possibility of the amount being increased. CDBG-DR funding through the County remains a parallel avenue, with Commissioner Wayne having been briefed on Tradewinds as the City's next priority project should housing-related funds become available.

**b.** Water Quality Report from Natural Resources Department

Natural Resources Director Holly Milbrandt provided a detailed update on the Blind Pass situation. She explained that the 2019 Blind Pass Inlet Management Plan, for which Lee County is the responsible entity, calls for maintaining the pass in an open condition through periodic dredging of approximately 21,000 cubic yards every three to four years. Prior to the planned dredge, Hurricanes Ian, Helene, and Milton scoured the pass sufficiently to delay the need for intervention. The recent completion of a large-scale Captiva beach renourishment - approximately one million cubic yards - by the Captiva Erosion Prevention District (CEPD) has generated a substantial sand spit migrating southward toward Sanibel, with observed impacts on the Blind Pass water opening. Milbrandt noted that a short-term closure remains a possibility but is not the goal of the inlet management plan, and that Lee County has permits and funding in place to dredge and intends to do so when conditions stabilize, which typically takes approximately one year after renourishment. She also confirmed that the City's ongoing Wolfert Channel dredge project is nearly complete and that contractors have not observed significant additional infilling in that area. Regarding Mr. Romano's public comments about habitat damage, Milbrandt indicated she would follow up directly with him to assess conditions in the areas he described. An informational presentation by Humiston & Moore Engineers on the long-term history

of Blind Pass was distributed to Council.

**c.** Finance Department Reports

i. Causeway Counts

ii. Grants Report

iii. Quarterly Financial Reports - Fiscal Year 2026 First Quarter

No discussion was held on the Causeway Counts, Grants Report, or Quarterly Financial Reports for FY2026 Q1.

## 17. GENERAL COUNCIL DISCUSSION

**a.** Future Agenda Items Matrix

Council members identified several items for future agenda consideration:

Councilmember Henshaw reported that 15 Sanibel residents - including city officials, police officers, and firefighters - have registered to climb One World Trade Center on June 7 as part of a memorial event. He also raised the emerging availability of air taxi and robotaxi vertiport infrastructure (projected for 2029) as a potential future discussion item in the context of island transportation. He requested that Council begin discussing city center planning and the potential to develop a town center concept.

Councilmember DeBruce reported success with the second Sanibel Art Hop on the last Sunday of February, noting significant new visitor traffic to participating galleries; the next Art Hop is March 22. She requested that staff develop a proposal for a coyote population study and management plan, and that Council consider financial support for SCCF's sea turtle nest protection program. She also requested that committee and board terms be examined for consistency, suggesting two- or three-year terms in place of annual appointments.

Vice Mayor Smith endorsed the city center/town center discussion and suggested linking it to a recently held community visioning workshop. She supported the coyote study and SCCF sea turtle support. She highlighted that the Lee County Board of County Commissioners approved $2.1 million in TDC funding for the Sanibel pier project at the day's BOCC meeting. She noted concern about properties and prospective tenants being unable to complete redevelopment or new occupancy due to vegetation compliance requirements, and asked for review of whether relief is available or whether a code amendment is needed. She also referenced two development proposals - including a potential mini-golf facility in the area of the former Island Cow - that she understood had encountered resistance at the staff level, and asked for clarity on what code provisions prohibit or restrict such uses. She linked this to a broader interest in reviewing obstacles to development and distinguishing between "attractions" (which the City's plan generally discourages) and "amenities" for residents and visitors. She also addressed the house elevation issue,

noting at least one property is scheduled to begin construction the next day under a 9.3-foot height limit when 10 feet would be desired pending a forthcoming code amendment. She requested expedited action or an interim waiver mechanism.

City Manager Souza indicated he would consult with the City Attorney regarding potential interim relief for the elevation issue. He committed to preparing action items on the East Periwinkle Way speed limit, passing zone changes with wildlife mortality cross-referencing, the sea turtle funding question, the coyote study proposal, and the commission/board structure review. He noted the city center/town center topic is already scheduled for an April agenda item. He also reported that work is underway to restore the City's mission statement display in Council chambers.

## 18. CITY MANAGER'S REPORT

City Manager Souza noted the mission statement display is being addressed, confirmed the town center topic is targeted for April, and relayed that all Council members are invited to a morning meet-and-greet with Army Corps of Engineers Colonel Bowman on March 25. He also commended city staff for recent work on the "Slow Down Sanibel" campaign and the Recreation Center's VCB certification.

## 19. CITY ATTORNEY'S REPORT

City Attorney Agnew had no items to report.

## 20. PUBLIC COMMENT

There were no public comments from the audience.

## 21. ADJOURNMENT

There being no further business, the meeting adjourned at 6:34 p.m.

800 Dunlop Road
Sanibel, FL 33957

# City of Sanibel

## Meeting Minutes - Draft
## City Council

**Tuesday, March 17, 2026** | **9:00 AM** | **MacKenzie Hall - 800 Dunlop Road**

**Special Meeting**

## 1. CALL TO ORDER

The meeting convened at 9:02 a.m.

## 2. INVOCATION AND PLEDGE OF ALLEGIANCE (Councilmember DeBruce)

Councilmember DeBruce gave the Invocation and led the Pledge of Allegiance.

## 3. ROLL CALL

**Councilmember Johnson moved, seconded by Councilmember DeBruce, to excuse Vice Mayor Smith. The motion carried.**

**Absent:** 1 - Vice Mayor Holly Smith

## 4. SET THE AGENDA

The agenda was set as published.

## 5. PUBLIC COMMENTS FOR NON-AGENDA ITEMS

There were no public comments from the audience.

## 6. 9:05 - SECOND READING AND PUBLIC HEARING

**a.** Milestone Inspections

**ORDINANCE 26-002 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, AMENDING THE SANIBEL CODE OF ORDINANCES, CHAPTER 14, BUILDINGS AND BUILDING REGULATIONS, ARTICLE VII, MANDATORY INSPECTION OF AGING CONDOMINIUM AND COOPERATIVE BUILDINGS, SECTION 14-323, INSPECTION, REPORTING, AND REPAIRS; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Ordinance 26-002.

Building Director Mole' presented a brief background of the ordinance amending milestone inspection requirements for aging condominium and cooperative buildings. The amendment addresses recent state law changes that modified the definition of milestone buildings from "3 story buildings or higher" to "3 habitable stories," which

excludes storage areas and parking levels that don't meet habitable space criteria. This change significantly reduced the number of structures on Sanibel requiring milestone inspections from 212 buildings to 137 buildings. The director explained that habitable space is defined as areas used for sleeping, eating, and living, and this change provides relief for property owners while maintaining structural safety requirements that were implemented following the Surfside collapse.

Council members asked questions about the definition of habitable space, flood level considerations, and potential legal implications. City Attorney Agnew confirmed that while the city could implement stricter standards than state requirements, this ordinance simply aligns with the updated state law. The building director indicated support for the changes as written.

Planning Director McMichael and City Attorney discussed communication plans for affected properties and the authority granted to Building Director Mole' for deadline extensions under the milestone inspection program.

**Councilmember DeBruce moved, seconded by Councilmember Johnson, to adopt Ordinance 26-002. The motion carried by a vote of 4-0 with Vice Mayor Smith excused.**

**Absent:** 1 - Vice Mayor Holly Smith

## 7. DISCUSSIONS OF DRAFT LEGISLATION

**a.** Community Housing & Resources - Conditional Use Permit

**A DRAFT ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPROVING AN INCREASE IN RESIDENTIAL DEVELOPMENT DENSITY AS SET FORTH AND APPROVED IN PLANNING COMMISSION RESOLUTION 26-04, CONDITIONAL USE PETITION APPLICATION NO. PL20260002, PURSUANT TO SECTIONS 82-201, AUTHORIZATION, AND 82-204, APPLICATION AND HEARING, OF THE CODE OF ORDINANCES, TO ALLOW INCREASED-DENSITY BELOW MARKET RATE HOUSING FOR CONSTRUCTION OF A 39-UNIT MULTI-FAMILY DEVELOPMENT ON PROPERTY OWNED BY COAST ISLANDS COMMUNITY LAND TRUST, INC. (FORMERLY OWNED BY SANIBEL 1523 , INC., AND SANIBEL 1531, INC.), AND LOCATED AT 1523 PERIWINKLE WAY, TAX PARCEL NO. 30-46-23-T1-00004.0060 AND NO. 30-46-23-T1-00004.0070, MORE FULLY DESCRIBED HEREIN; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Planning Director Paula McMichael provided a PowerPoint presentation and comprehensive overview regarding the conditional use permit and variance requests from Community Housing & Resources (CHR). The 2.6-acre property lies in the General Commercial and Interior Wetlands Conservation Districts, with no development in the wetlands. The project transforms the former Fish House restaurant site into a three-story building with 39 one-bedroom units, increasing by 30 units over

the usual allowance of 9. It will use $9.75 million in CDBG-DR funding, requiring an additional $8 million from CHR.

CHR Executive Director, Nicole McHale provided detailed information about the project timeline, funding constraints, and design rationale. She further explained that the organization has spent $4.2 million upfront ($3.5 million for land acquisition, $700,000 for professional services) with these costs non-reimbursable under the grant program. The federal funding deadline requires the project be competed and occupied by January 2029. Ms. McHale detailed current inventory including 67 units, only four of them being one-bedroom with most multi-bedroom units occupied by single individuals. Council inquired about the residents who would apply for the housing. Ms. McHale provided that lease agreements include provisions for residents who work on sanibel or for sanibel associated businesses.

Project Manager Rachel Bielert presented new renderings showing the building's integration with surrounding development and explained design decisions including building placement, circulation patterns, and landscape buffering. The presentation included a photograph taken from Periwinkle Way showing the current construction height of Riverview 1 to provide perspective on visual impact.

Multiple Council members voiced concerns about the building's size and potential impact on Periwinkle Way's small-town character. Comparisons were requested with other commercial buildings (Jerry's, Trader's) to better understand scale relationships. The lack of detailed visual renderings during the initial review process was noted as a significant limitation. Discussion then focused on the concentration of single-occupancy housing and potential impacts on community diversity. Questions were raised about the shift away from CHR's traditional approach of scattered, integrated housing throughout the community toward clustered development.

Concerns were expressed about the undefined nature of the proposed commercial space, including parking adequacy, long-term development prospects, and potential restrictions on future sales or development; particularly of the space in front of the property previously occupied by a commercial restaurant space.

Council members inquired whether alternative designs (such as two-story construction with larger footprint) could achieve community housing goals while reducing visual impact, though technical constraints related to site coverage, parking, and fire access were identified as limiting factors. Ms. Bielert spoke to the negative ROI (return on investment) figures and further spoke to the challenges with the timing for federal funding.

Public Comments:
- Larry Schopp - Sanibel Resident - spoke to his reasoning for opposing the project

as a member of the Planning Commission, explaining why he feels the project is in conflict with the Sanibel Plan.
- Mitch Koppelman - Sanibel Resident - spoke to the project being a great addition with proper vegetation and landscaping, recommending ensuring a vegetation buffer is installed quickly and adequately to meet appearance standards
- Erika Steiner - CHR Board Member - noted she abstained from discussions as Planning Commission member due to bias conflict and spoke to the funding opportunities and the work that has happened in the background getting to this point of the project and approval process.
- Caroline Mareno - Sanibel Resident - spoke to concerns with increased development/intensity on the island, how will AC units be implemented in the project
- David Muench - Sanibel Resident - spoke in support of the project, advising that the buffer will be adequate.

Following extensive discussion, City Attorney Agnew proposed additional conditions in order to address Council and the public's concerns:
- Enhanced landscaping requirements with larger trees (15 feet minimum)
- Madatory landscaping maintenance for the commercial area until developed
- Requirement for City Council approval of any property sub-division

Council agreed that the additional proposed conditions by Attorney Agnew provide greater comfort with the project approval while maintaining the essential timeline for federal funding.

**b.** Community Housing & Resources - Variance

**A DRAFT ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, DETERMINING A VARIANCE (APPLICATION NO. PL20260007) RELATIVE TO SECTION 86-163, MAXIMUM NUMBER OF DWELLING UNITS, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, SECTION 122-48, LOCATION AND SIZE OF REQUIRED VEGETATION BUFFERS, SECTION 122-49, TYPES, VARIETIES, AND NUMBERS OF PLANTS REQUIRED, SECTION 126-494, REQUIRED CONDITIONS, SECTION 126-1029, SITE PLANNING, AND SECTION 126-1404, DRIVEWAYS AND SERVICE AISLES, TO ALLOW FOR THE CONSTRUCTION OF A 39-UNIT MULTI-FAMILY DEVELOPMENT, ON PROPERTY OWNED BY COAST ISLANDS COMMUNITY LAND TRUST, INC. (FORMERLY OWNED BY SANIBEL 1523, INC. AND SANIBEL 1531, INC.) AND LOCATED AT 1523 PERIWINKLE WAY, TAX PARCEL NO. 30-46-23-T1-00004.0060 AND NO. 30-46-23-T1-00004.0070, FILED PURSUANT TO SECTION 82-138 OF THE LAND DEVELOPMENT CODE; MORE FULLY DESCRIBED HEREIN; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

The meeting went into recess at 12:43 and reconvened at 1:02 p.m.

Council breifly discussed the additional conditions they wished to implement on Ordinance 26-005.
Attorney Agnew summarized the previous discussion with notes on the motion as follows:

Move draft ordinance 26-005 to first reading with the following changes:
- Page 2, Section 2: Strike "/denies"
- Page 2 (immediately below) strike "contained in the February 24, 2026 staff report."
- Condition 10: [insert at end] "The large trees in the front buffer shall be a minimum of 15 feet in height at time of installation."
- Condition 11: Until developed, the area within the Applicant plans where the proposed commercial building is depicted shall be planted and maintained in accordance with the buffer standards detailed in Sec. 122-73, except the minimum required plantings of such area is only required to meet 50% of the number of planting requirements per type and variety.
- Condition 12: Any proposed minor or major subdivision of the Subject Property is required to come before City Council for final approval.

**Council member Johnson moved, seconded by Mayor Miller, to forward Ordinance 26-004 to first reading, with the minor correction in the last whereas clause striking "/disagrees" and in section 2 striking "/denied". The motion carried.**

**Absent:** 1 - Vice Mayor Holly Smith

Representatives from CHR committeed to providing additional visual materials including renderings showing the building in context with other Periwinkle Way structures and comprehensive view of both Riverview buildings from multiple vantage points.

**Council member Johnson moved, seconded by Mayor Miller to move Ordinance 26-005 to first reading as amended by Attorney Agnew. The motion carried.**

**Absent:** 1 - Vice Mayor Holly Smith

## 8. FIRST READING OF AN ORDINANCE AND SCHEDULING OF PUBLIC HEARING

**a.** Community Housing & Resources - Conditional Use Permit

**ORDINANCE 26-004 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, APPROVING AN INCREASE IN RESIDENTIAL DEVELOPMENT DENSITY AS SET FORTH AND APPROVED IN PLANNING COMMISSION RESOLUTION 26-04, CONDITIONAL USE PETITION APPLICATION NO. PL20260002, PURSUANT TO SECTIONS 82-201, AUTHORIZATION, AND 82-204, APPLICATION AND HEARING, OF THE CODE OF ORDINANCES, TO ALLOW INCREASED-DENSITY BELOW MARKET RATE HOUSING FOR CONSTRUCTION OF A 39-UNIT MULTI-FAMILY DEVELOPMENT ON PROPERTY OWNED BY COAST ISLANDS COMMUNITY

**LAND TRUST, INC. (FORMERLY OWNED BY SANIBEL 1523 , INC., AND SANIBEL 1531, INC.), AND LOCATED AT 1523 PERIWINKLE WAY, TAX PARCEL NO. 30-46-23-T1-00004.0060 AND NO. 30-46-23-T1-00004.0070, MORE FULLY DESCRIBED HEREIN; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Ordinance 26-004.

Second reading and public hearing scheduled for 9:05 a.m., Tuesday, March 31, 2026.

**b.** Community Housing & Resources - Variance

**ORDINANCE 26-005 OF THE CITY COUNCIL OF THE CITY OF SANIBEL, FLORIDA, DETERMINING A VARIANCE (APPLICATION NO. PL20260007) RELATIVE TO SECTION 86-163, MAXIMUM NUMBER OF DWELLING UNITS, SECTION 86-164, LIMITATIONS ON PRINCIPAL BUILDINGS, SECTION 122-48, LOCATION AND SIZE OF REQUIRED VEGETATION BUFFERS, SECTION 122-49, TYPES, VARIETIES, AND NUMBERS OF PLANTS REQUIRED, SECTION 126-494, REQUIRED CONDITIONS, SECTION 126-1029, SITE PLANNING, AND SECTION 126-1404, DRIVEWAYS AND SERVICE AISLES, TO ALLOW FOR THE CONSTRUCTION OF A 39-UNIT MULTI-FAMILY DEVELOPMENT, ON PROPERTY OWNED BY COAST ISLANDS COMMUNITY LAND TRUST, INC. (FORMERLY OWNED BY SANIBEL 1523, INC. AND SANIBEL 1531, INC.) AND LOCATED AT 1523 PERIWINKLE WAY, TAX PARCEL NO. 30-46-23-T1-00004.0060 AND NO. 30-46-23-T1-00004.0070, FILED PURSUANT TO SECTION 82-138 OF THE LAND DEVELOPMENT CODE; MORE FULLY DESCRIBED HEREIN; PROVIDING FOR CODIFICATION; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERANCE; AND PROVIDING AN EFFECTIVE DATE**

Attorney Agnew read into record the title of Ordinance 26-005.

Second reading and public hearing scheduled for 9:05 a.m., Tuesday, March 31, 2026.

## 9. PUBLIC COMMENT

No additional public comments were received.

## 10. ADJOURNMENT

There being no further business, the meeting adjourned at 1:20 p.m.

**AGENDA MEMORANDUM** ***Recreation Department***

**City Council Meeting Date: April 21, 2026**

**To:** City Council

**From:** Andrea Miller, Recreation Director

**Date:** April 6, 2026

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**SUBJECT**: Friends of Don, Inc. Request for City of Sanibel co-sponsorship of the annual Independence Day Parade and to waive the Special Event fees

**BACKGROUND**: The Friends of Don, Inc. is a local committee charged with organizing Sanibel's annual Independence Day Parade. Friends of Don, Inc., was created in 1994 in memory of Don Bissell, to carry on the traditional parade that Mr. Bissell was instrumental in organizing, annually.

As an annual recurring event, the Independence Day Parade is considered a grandfathered event. However, the application is brought before City Council annually as the parade organizers request the City's participation as a co-sponsor of the event with an in-kind contribution for Police Services, Public Works assistance and the Special Events Application fee.

**FUNDING SOURCE:** General Fund**;** Co-Sponsorship includes waiving the fees for Police and Public Works services and the $50 Special Event Application Fee.

**RECOMMENDED ACTION**: Council consideration and discussion with direction to staff.

**CITY OF SANIBEL**
**SPECIAL EVENTS PERMIT APPLICATION**
3880 SANIBEL CAPTIVA RD, SANIBEL, FL 33957
Phone (239) 472-0345
Website: www.mysanibel.com
Email: specialevents@mysanibel.com

FOR CITY USE:
26-090
PERMIT #
N/A of

**DATE:** March 25, 2026 **Lee Co. Tax Parcel #** N/A

**Application must be submitted no later than 60 calendar days prior to the event** accompanied by a refundable deposit (If applicable), and a non-refundable **$50/resident** or **$150/non-resident** application fee. **Applications submitted less than 60 calendar days but not less than 14 days prior to the event, will be assessed a late fee.**
Applications will not be accepted later than 14 calendar days prior to the event.
Applicants may not advertise the event until the special event permit is approved by the city council, city manager, or his/her designee.

**NAME OF EVENT:** Independence Day Parade

**EVENT ADDRESS:** Tarpon Bay Road to Periwinkle Way to Casa Ybel Road (Staging area on Island Inn Road)

**Name of shopping center or complex, if applicable:** N/A

**NAME OF APPLICANT:** Patricia (Trish) Phillips - Friends of Don, Inc.

**ADDRESS:** 6870 Briarcliff Road, Fort Myers, FL 33912

**TELEPHONE:** (239)246-2981 **CELL:** (239)246-2981 **FAX:**

**EMAIL ADDRESS:** LMDCPHIL@AOL.COM **WEBSITE:**

**NAME OF CONTACT PERSON AND PHONE NUMBER AT THE EVENT:**
Trish Phillips (239)246-2981

**IS THE APPLICANT/ORGANIZATION A 501(C)3, NON-PROFIT?** ☐ Yes ☑ No
Certificate No. Please provide a copy of current certificate.

**A Special Event Permit is issued for up to 3 consecutive days. An event that is longer than 3 consecutive days will require an additional permit to be issued resulting in additional fees.

**DATE(S) OF EVENT:** **BEGINNING/ENDING TIME:**
*Set-up and tear down must be included as part of event dates.

Set-Up Date(s) Friday, July 3, 2026 Set-up Time(s) 8 a.m. - 6 p.m.
Event Date(s) Saturday, July 4, 2026 Event Time(s) 9:30 a.m.-11:30a.m./Staging begins 7 a.m.
Tear-Down Date(s): Saturday, July 4, 2026 Tear-Down Time(s) 10:30 a.m.-3 p.m.

**NUMBER OF PARTICIPANTS EXPECTED:** 500 **ADMISSION CHARGE (IF ANY):** Commercial $30 / Non-Commercial $15

**TYPE OF EVENT/SPECIFIC ACTIVITIES:** Selling parade tee shirts along parade route.
Independence Day Parade - Participants consist of walkers, bicycle, scooters, golf carts,
motorcycles, trucks & trailers.

**PLEASE CHECK APPROPRIATE BOX:** ☐ Private Event ☑ Public Event
***NOTE** – Public events will be listed on the Special Events Calendar on the City's website.

***A drawing of event layout, parking area, placement of signs and temporary structures must be attached upon application submission.*** Attached

**TEMPORARY SIGN(S)** The Sanibel Code permits one (1) on-site sign, that may be double-faced, per special event. Area and height are based on the district and land use. Residential districts – not to exceed 3 SF, 3 ft in height; all other districts, not to exceed 12 SF, 4 feet in height. Two (2) off-site directional signs not to exceed 3 SF, 3 ft in height are permitted. BANNER SIGNS AND BALLOONS ARE STRICTLY PROHIBITED AT ALL TIMES.

Please indicate sign size, type, and location of **On-Site sign**: N/A
Please indicate sign size, type, and locations of **Directional Signs (**Non-Profit Organizations only): _____

_____

**NUMBER OF VENDORS:**_____ *Vendors must have a Sanibel Business Tax Registration/Receipt (BTR), if applicable.
**VENDOR #1 BUSINESS NAME:**_____ **ADDRESS:**_____
**VENDOR #2 BUSINESS NAME:**_____ **ADDRESS:**_____
**VENDOR #3 BUSINESS NAME:**_____ **ADDRESS:**_____

N/A

**TEMPORARY TENTS AND STRUCTURES - Including arches, tents (specify number of tents and tent size), chairs, tables, bounce houses, dunk tanks, etc.** Tents exceeding 120 square feet require a tent permit (per tent) and inspection from the Sanibel Fire District.

Tent #1 Size: 10'x 10' Staging Area Tent#2 Size: 10'x 10' Judges Station Tent #3 Size: _____

Temporary Structure Type: _____ Quantity: _____

Temporary Structure Type: _____ Quantity: _____

Temporary Structure Type: _____ Quantity: _____

**TRAFFIC CONTROL PLAN:** Please attach traffic control and parking plan for events requiring off-site parking or pedestrian street crossing.

**A Business Tax Receipt or Business Registration is required to work in the City of Sanibel.** Please provide your Sanibel Business Tax Receipt Number or Business Registration Number # _____

**Are Police Services, such as Traffic/Pedestrian Control or Event Security requested?** ☑ Yes ☐ No

**NUMBER OF OFFICERS:** To Be Determined **DATE:** July 4, 2026 **TIME:** To Be Determined
The rate is $185 for a 3-hour minimum shift, per staff member and $65, per staff member, per hour thereafter. **In the interest of public safety, the Sanibel Police Chief may require an applicant retain Police Services as a condition of granting a Special Events Permit, in which case, applicant is responsible for payment of fees as described above.**

**Will amplified music be played?** ☑ Yes ☐ No *Must comply with Noise standards, Sanibel Code Chapter 30, Article III.

**Will City property, public right-of-way or other public property, parks, beaches, etc. be utilized?** ☑ Yes ☐ No

If yes, please identify right-of-way and/or public property/park name: Island Inn Rd/Tarpon Bay Rd/Periwinkle Way/Casa Ybel Rd

**EVENTS HELD AT COMMUNITY PARK – SMOKING IS PROHIBITED** at Community Park. Applicant is responsible for ensuring compliance with this policy. **Failure to do so will be in violation of this permit, may lead to forfeiture of deposit, and may constitute a violation of City Policy.** Spot maintenance will be provided at Community Park by the City of Sanibel Public Works Department between the hours of 8 a.m. to 5 p.m., daily. In addition, for overnight events, applicant is responsible for bathroom maintenance (emptying trash containers, stocking of toilet paper and paper towels) between the hours of 5 p.m. and 8 a.m.

**EVENTS HELD ON CITY PROPERTY:** Liability Insurance in the amount of $1,000,000 listing the City of Sanibel as an additionally insured party may be applicable for certain events held on City property. Proof of insurance must be provided before application is approved.

**NOTE:** If event is held on City property, such as a City Park or City Hall, **alcohol is prohibited** unless approved by City Council. A rental fee and deposit is applicable for use of certain City Properties. Please contact the Sanibel Recreation Center at (239)472-0345 for information regarding fees and deposits.

**Will alcoholic beverages be served or sold?** ☐ Yes ☑ No
If yes, please contact the **Division of Alcoholic Beverages and Tobacco at (239) 344-0885,** to determine if you are required to obtain a liquor license. If a liquor license is required, applicant must submit the application for a liquor license attached to this application for review and approval by the Planning Department.

**Will food and/or drink be served or sold?** ☐ Yes ☑ No (Appropriately rated fire extinguishers required)
If this is an outdoor event, vendor may require a Lee County Department of Health Permit or a License from the Division of Business and Professional Regulation. **To find out if you need a Health Department Permit or license, please call the Lee County Health Department at (239) 690-2100** or **Division of Business and Professional Regulation at (850) 487-1395**.

**Will temporary sanitary facilities be provided?** ☑ Yes ☐ No If yes, indicate location on site plan.

**Will trash receptacles, dumpsters and recycling containers be provided?** ☐ Yes ☐ No
If yes, indicate on site plan. Who will provide the receptacles, dumpsters or containers?_____
**NOTE: Trash and recycling receptacles must be emptied at the end of each day into a dumpster for multiple day events to discourage the feeding or foraging of raccoons. Failure to do so will be in violation of this permit, may lead to forfeiture of deposit, and may constitute a violation of other City Ordinances.**

**Is this a Sanibel student or Sanibel youth group event?** ☐ Yes ☑ No
If yes, the fee for a special event permit shall be $5 so long as proceeds from the event solely benefit a Sanibel student or Sanibel youth group; is a single day event generally not lasting longer than 8 hours; no vendor or related fees are charged (only the youth group fee or contribution is solicited); event is managed and conducted solely by volunteers; and temporary and/or permanent structures are not required. (Ord. 24-004)

**Is the applicant an organized homeowners association or neighborhood association?** ☐ Yes ☑ No
If yes, the application fee shall be waived. (Resolution 24-011)

**Does event require Vehicle for Hire or a tour bus for guests & participants?** ☐ Yes ☑ No (Ordinance 13-009)
If yes, please list bus/van length _____ seating capacity _____ Name of Company_____

**Does event require electrical usage at any City Owned Property?** ☐ Yes ☑ No
A daily power usage fee for electrical connection at any City owned property will apply. (Resolution 24-011)

**OWNER OF PROPERTY:** If the person/group applying for this permit is not the owner of the property, the property owner must sign this application. If the property owner is unavailable to sign the application, a letter of permission from owner is acceptable.

City of Sanibel _____ _____ _____
Property Owner Signature | Print Name | Title

By signature below, it is understood by applicant that this application is subject to review and approval by City staff and may be revoked at any time for non-compliance with rules, local ordinances, state statutes or if the event endangers the health, safety, or welfare of the public. The City reserves the right to cancel the event should any conflicts arise with scheduling, and will give reasonable notice to the applicant for the purpose of rescheduling. During reviews by various City Departments, additional conditions may be imposed. As required by Section 110-83, City services determined necessary for the conduct of the Special Event, such as temporary lighting or police officers to direct or reroute traffic, shall be paid by applicant.

This permit is valid only for the time indicated on this permit. In the event that the applicant fails to fulfill the requirement(s) as set forth in this permit, including Beach Standards, or fails to obtain proper authorization to proceed, if conditions have changed, including but not limited to time, specifications and activities, deposit may be forfeited and the permit may be cancelled.

As applicant, I agree to abide by all conditions and requirements of the City of Sanibel and will comply with *Chapter 110 of the Sanibel Code. Applicant further understands that the use of Fireworks (including sparklers), Explosives, and Upward Lighting are prohibited at all times. *Copy available upon request.

Applicant Signature: Patricia Phillips Print Name: Patricia Phillips

## --FOR CITY USE ONLY--

**DEPARTMENT COMMENTS**

FEES BY DEPARTMENT:

**PUBLIC WORKS**

$ _____ Public Works

**PLANNING DIVISION**

$ _____ Planning

**BUILDING DIVISION**

If checked "YES" applicant must comply with attached Tent Standards.

☐ Yes ☐ No

$ _____ Building

**POLICE**

$ _____ Police

**FINANCE**

$ _____ Finance

Business Tax Receipt Verified? ☐ Yes ☐ No

**NATURAL RESOURCES**

$ _____ Natural Resources

If checked "YES" applicant must comply with attached Beach Standards. ☐ Yes ☐ No

**RECREATION**

$ _____ Recreation

**ADMINISTRATION**

$ _____ Administration

City Council Approval Date:_____ Minutes Attached: ☐ Yes ☐ No

Comments/Permit Conditions: _____

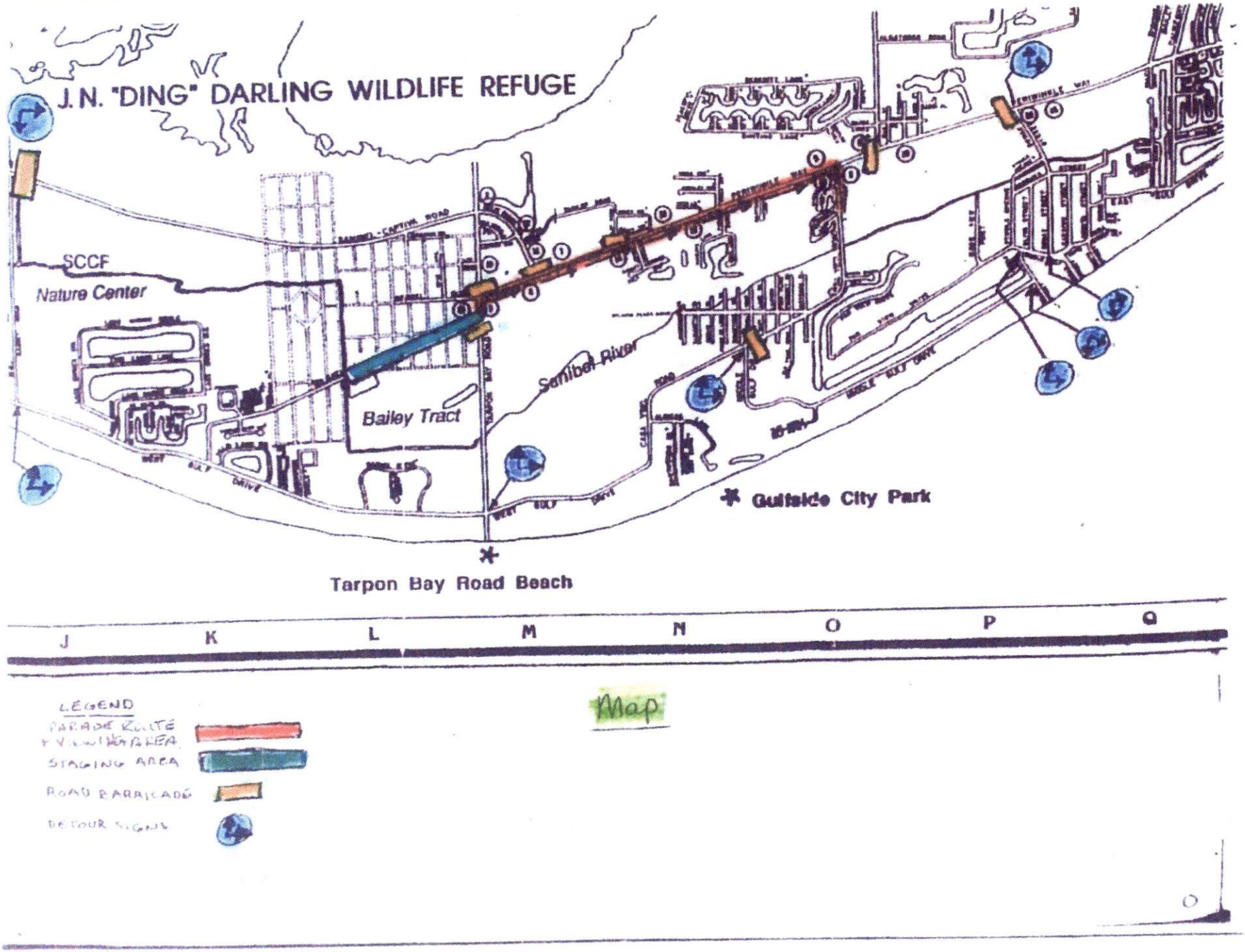
_____

_____

_____

_____ _____

City Manager Approval Date


J. N. "DING" DARLING WILDLIFE REFUGE
SCCF
Nature Center
Bailey Tract
Sanibel River
Gulfside City Park
Tarpon Bay Road Beach
J
K
L
M
N
O
P
Q
LEGEND
PARADE ROUTE
STAGING AREA
ROAD BARRICADE
DETOUR SIGNS
Map

Friends of Don, Inc.
6870 Briarcliff Road
Fort Myers, Florida 33912
(239)246-2981

March 25, 2026

Mr. Dana Souza
City Manager
City of Sanibel
800 Dunlop Road
Sanibel, Florida 33957

Dear Mr. Souza,

The Friends of Don committee are planning the 2026 Annual Independence Day Parade. We would like to extend the invitation to the City of Sanibel to continue to be co-sponsor of this annual event. We ask that all special event fees be waived as part of the sponsorship.

We thank you for your consideration in this matter and look forward to hearing from you.

Respectfully,

Trish Phillips
Committee Member
Friends of Don, Inc.

Enclosed – Special Events Application

# INSERT CERTIFICATE OF INSURANCE (COI) HERE

**AGENDA MEMORANDUM** ***Recreation Department***

**City Council Meeting Date: April 21, 2026**

**To:** City Council

**From:** Andrea Miller, Recreation Director

**Date:** April 13, 2026

---

**SUBJECT**: Approval of an agreement between Zambelli Fireworks Manufacturing Company and the City of Sanibel for the Independence Day fireworks display in the amount of $33,000 and authorize the City Manager to execute same

**BACKGROUND**: Zambelli Fireworks Manufacturing Company has historically been the vendor for the City's Annual 4th of July Fireworks display. This year's proposal (Exhibit A) is consistent with previous displays in length (18 minutes), location (Exhibit B) and shell count. This fiscal year, the City budgeted $30,500 for the annual fireworks display; however, the contract has increased to $33,000 due to increases in fuel, insurance, and labor costs. The difference of $2,500 can be absorbed within the Public Works Other Contractual line item.

**FUNDING SOURCE:** Public Works Fiscal Year 2026 Adopted Budget, Other Contractual 0014100-434000

**RECOMMENDED ACTION**: Approve agreement between Zambelli Fireworks Manufacturing Company and the City of Sanibel for the Independence Day fireworks display in the amount of $33,000 and authorize the City Manager to execute same

# FIREWORKS DISPLAY AGREEMENT

**THIS AGREEMENT** ("Agreement") is made and entered into this ___ day of _____, 2026, by and between ZAMBELLI FIREWORKS MANUFACTURING COMPANY, a Pennsylvania corporation located at 20 S. Mercer Street, New Castle, PA 16103 (hereinafter referred to as "ZAMBELLI") and the CITY OF SANIBEL, a Florida municipal corporation located at 800 Dunlop Road, Sanibel, Florida 33957 (hereinafter referred to as "CITY").

**WITNESSETH:**

For and in consideration of all mutual covenants, terms and provisions hereinafter entered into, agreed by the parties to be sufficient consideration received, ZAMBELLI and the CITY agree as follows:

1. ZAMBELLI agrees to provide a fireworks display on July 4, 2026 (the "Display Date"), within the City of Sanibel in accordance with attached Exhibit "A" (the "Fireworks Proposal"), incorporated herein, outlining ZAMBELLI'S fireworks display proposal. The fireworks product listing and shell count for the fireworks display are set forth on Page 4 of 16 of the Fireworks Proposal. The total Agreement price payable by CITY to ZAMBELLI for the fireworks display is Thirty-Three Thousand and 00/100 Dollars ($33,000) and shall be paid by CITY to ZAMBELLI as follows:

   (a) fifty-percent (50%) of which is due upon signing this Agreement; and
   (b) the balance of which is due by noon three (3) days prior to the Display Date.

2. ZAMBELLI agrees to be solely responsible for the costs and expenses of the freight and cartage for the said display, permits, insurance, fees, licenses, and all necessary labor and equipment, including licensed Pyrotechnic Operators, to discharge the said display, and for restoring the area used by ZAMBELLI to stage the fireworks display to its original neat and clean condition, including proper disposal of all materials used and all partially exploded or unexploded shells in a safe manner.

3. In the event of inclement weather, ZAMBELLI shall, at the CITY's sole election, either (a) conduct such display as soon as possible, and the CITY and ZAMBELLI agree to postpone said display to another night designated by the City of Sanibel as the date of display before the end of the 2026 calendar year; or (b) cancel such display. In the event the CITY desires to reschedule the Fireworks Display and a rescheduled night is set, the CITY shall pay to ZAMBELLI an additional fifteen percent (15%) premium on the Agreement amount (i.e., $4,950.00) (15%). If no rescheduled display night is agreed to be feasible by the CITY and

ZAMBELLI, ZAMBELLI shall, within 15 days of written request by CITY, return to the CITY the fifty percent (50%) deposit. In the event of cancellation of the Fireworks Display by the CITY within 15 calendar days of the scheduled display, and if the CITY does not desire to reschedule, ZAMBELLI shall retain the fifty percent (50%) deposit that is due upon signing of this Agreement in full and final satisfaction of this Agreement.

4. ZAMBELLI agrees that it shall:

a. Purchase, maintain, and provide the CITY proof of insurance coverage in at least the amount of $10,000,000.00 for Commercial General Liability, consistent with the coverage detailed on page 2 of 16 of the Fireworks Proposal, insuring liability for Bodily Injury and Property Damage caused by or arising from, the storage and preparation for, the exhibition and firing of fireworks, or the clearance following fireworks display(s).
b. Provider shall name the City of Sanibel as an additional insured. A copy of such certificate of insurance shall be provided to CITY no later than fifteen (15) days prior to the scheduled fireworks exhibition.

5. ZAMBELLI shall be required to coordinate with the Sanibel Police Department and shall be required (and ZAMBELLI agrees) to obtain a police escort for ZAMBELLI'S transport of fireworks within the CITY limits and to the designated storage area. Method of delivery of fireworks shall be by box truck, and the hours of transport will be between 7:00 and 9:00 a.m. on July 4, 2026. Storage of all fireworks shall be in the box truck once it arrives on site. The CITY shall furnish security and/or police protection and barricades to prevent any persons from coming within the established safety zone area designated by ZAMBELLI for discharging said fireworks display. The established safety zone area is agreed by the parties to be described in Exhibit "B" and attached hereto.

6. The CITY agrees to obtain any and all permits required by municipal authorities for the discharging of the said fireworks at its own expense. ZAMBELLI agrees to apply for and obtain, at ZAMBELLI expense, a City of Sanibel business tax receipt (formerly known as an occupational license) at least 5 days prior to the display date.

7. Notwithstanding any other provision of this Agreement, in the event more than 10% of the shells fail to operate properly, malfunction, or ignite, the CITY shall be entitled to a 50% reduction in the Agreement price; provided, however, in the event that 35% or more of the shells fail to operate properly, CITY shall be entitled to a 100% reduction in the Agreement price and no additional monies shall be due to ZAMBELLI pursuant to this Agreement. Any monies

paid to ZAMBELLI shall be refunded to CITY in the amount necessary to meet this warranty by ZAMBELLI.

8. ZAMBELLI reserves the exclusive right to make minor modifications and substitutions to the Display, provided that such changes are reasonable and necessary and do not materially adversely affect price, time of delivery, functional character or performance of the Display.

9. The parties agree to cooperate with regulatory authorities having jurisdiction over the Display, including, but not limited to local fire and police departments, the Bureau of Alcohol, Tobacco, Firearms and Explosives, the Department of Transportation, the Department of Homeland Security, and the USCG (any such authority having jurisdiction over the Display is sometimes referred to herein as the "Authority Having Jurisdiction"). The parties acknowledge that such governmental regulatory authorities having jurisdiction over the Display have the right to prohibit the Display until unsafe and unsuitable conditions are corrected.

10. This Agreement shall not be construed to create a partnership or joint venture between the parties or persons mentioned herein.

11. **INDEMNIFICATION.** In consideration of the first $100.00 paid by the CITY to ZAMBELLI through this Agreement, agreed by both parties to be sufficient consideration and received by ZAMBELLI at the time of its execution of this Agreement, ZAMBELLI agrees to, and will at all times, indemnify, save and hold harmless the CITY from any and all liability, claims, demands, disputes, damages, costs, attorneys fees, and expenses (including prior to trial, through trial, and to and on appeal), incurred by the CITY as a result, directly or indirectly, of the fireworks display by ZAMBELLI, or its agents, employees or contractors, guests, visitors, or spectators, except where such claim or liability results from the sole and exclusive liability of the CITY. The CITY and ZAMBELLI agree that this indemnification and hold harmless provision shall survive the completion or termination of this Agreement with regard to all matters addressed in this provision.

12 **NOTICE.** Notices, consents, request or other communications required or permitted to be given by either party pursuant to this Agreement shall be given in writing by first class mail, postage prepaid addressed as follows:

If to ZAMBELLI: Attention: Morgan Steel, Project Manager
Zambelli Fireworks Manufacturing Co.
1060 Holland Drive, Suite J
Boca Raton, Florida 33487

If to CITY: Dana A. Souza, City Manger
City of Sanibel
800 Dunlop Road
Sanibel, Florida 33957

13. **ASSIGNABILITY.** This Agreement may not be assigned or transferred in any manner by ZAMBELLI and any such assignment is expressly prohibited. Any attempt to assign this Agreement shall render this Agreement null and void.

14. **ENTIRE AGREEMENT.** Any previously existing oral or written agreements between the parties shall be terminated as of the date of this Agreement and shall be deemed to be hereafter null and void and of no further force and effect. The entire Agreement between the parties is incorporated in this written Agreement. In the event of any inconsistency between this Agreement document (pages 1-8) and the attached Exhibits, the provisions of this Agreement document shall prevail.

15. **SEVERABILITY.** Any provision or part of this Agreement held to be void or unenforceable under any law or regulation shall be deemed stricken and all remaining provisions shall continue to be valid and binding upon the CITY and ZAMBELLI, who agree that the Agreement shall be reformed to replace such stricken provision or part thereof, with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

16. **DISPUTE RESOLUTION.** In the event a dispute arises as a result of the implementation of this Agreement, or misunderstanding of its terms, both parties agree to first attempt to resolve the conflict or disagreement by non-binding mediation. Both parties further agree that all disputes related to this Agreement shall have exclusive jurisdiction in Lee County, Florida, whether in Florida State Court or in the U.S. District Court for the Middle District of Florida.

17. **MODIFICATION.** Any modifications to this Agreement shall be in writing and shall become effective upon the signature of both parties.

18. **DISCLAIMER.** Under no circumstances does the CITY endorse, promote, condone, certify, vouch, or recommend, nor is it responsible for any of the contents, actions, agreements or services associated with ZAMBELLI or its activities.

19. **ATTORNEY'S FEES.** In the event any litigation or controversy arises out of or in connection with this Agreement between the parties hereto, the prevailing party shall be entitled to recover all reasonable attorney fees from the other party.

20. **EXECUTION OF AGREEMENT.** This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together

shall be deemed to be one and the same instrument. The exchange of copies of this Agreement and of signature pages by facsimile transmission or scanned and sent via email shall constitute effective execution and delivery of this Agreement as to the parties and may be used in lieu of the original Agreement for all purposes. This Agreement and all the rights and powers granted by this Agreement shall bind and inure to the benefit of the parties and their respective successors and assigns.

21. **PUBLIC RECORDS**. CITY is a public agency subject to Chapter 119, Florida Statutes, the Public Records Law. As a contractor or service provider to CITY, ZAMBELLI is also subject to the Public Records Law pursuant to Section 119.0701, Florida Statutes, and shall comply with Florida's Public Records Law. Unless specifically exempted by Florida law, in whole or part, the ZAMBELLI shall:

(a) Keep and maintain public records required by the CITY in order to perform the service. This shall include all records relating to ZAMBELLI'S services provided to the CITY and includes "all documents, papers, letters, maps, books, tapes, photographs, films, sound recordings, data processing software, or other material, regardless of the physical form, characteristics or means of transmission."

(b) Upon request from the CITY'S custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the ZAMBELLI does not transfer the records to the CITY.

(d) Upon completion of the contract, transfer, at no cost to the CITY , all public records in possession of the ZAMBELLI , or keep and maintain public records required by the CITY to perform the service. If the ZAMBELLI transfers all public records to the CITY upon completion of the contract, the ZAMBELLI shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the ZAMBELLI keeps and maintains public records upon completion of the contract, the ZAMBELLI shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the CITY , upon request from the CITY'S custodian of public records, in a format that is compatible with the information technology systems of the CITY .

As required by Section 119.0701(2)(a), the following contact information is provided to the contractor in the format required by statute:

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

SANIBEL CITY CLERK
800 DUNLOP ROAD
SANIBEL, FLORIDA 33957
(239) 472-3700
scotty.kelly@mysanibel.com

22. **E-VERIFY.** In compliance with Section 448.095, Fla. Stat., ZAMBELLI and its sub-contractor, if any, must be registered with and use the E-Verify system to verify work authorization status of all employees hired after January 1, 2021.

ZAMBELLI shall require each of its sub-contractors to provide ZAMBELLI with an affidavit stating that the sub-contractor does not employ, contract with, or sub-contract with an unauthorized alien. ZAMBELLI shall maintain a copy of the sub-contractor's affidavit as part of and pursuant to the records retention requirements of this Agreement.

The CITY, ZAMBELLI , or any sub-contractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated Section 448.09(1), Fla. Stat. or the provisions of this section shall terminate the contract with the person or entity.

The CITY, upon good faith belief that a sub-contractor knowingly violated the provisions of this section, but ZAMBELLI otherwise complied, shall promptly notify ZAMBELLI , and ZAMBELLI shall immediately terminate the contract with the sub-contractor.

A contract terminated under the provisions of this section is not a breach of contract and may not be considered such. Any contract termination under the provisions of this section may be challenged pursuant to Section 448.095(2)(d), Fla. Stat. ZAMBELLI acknowledges that upon termination of this Agreement by the CITY for a violation of this section by ZAMBELLI , ZAMBELLI may not be awarded a public contract for at least one (1) year. ZAMBELLI further

acknowledges that ZAMBELLI is liable for any additional costs incurred by the CITY as a result of termination of any contract for a violation of this section.

Subcontracts. ZAMBELLI or sub-contractor shall insert in any subcontracts the clauses set forth in this section, including this subsection, requiring the sub-contractor to include these clauses in any lower tier subcontracts. ZAMBELLI shall be responsible for compliance by any sub-contractor or lower tier sub-contractor with the clauses set forth in this section.

**IN WITNESS WHEREOF**, the parties have executed this Agreement as of the _____day of _____, 2026.

ZAMBELLI FIREWORKS MANUFACTURING COMPANY:

By: _____ _____
Name:_____ Date
Title:_____

CITY OF SANIBEL

BY: _____ _____
Dana Souza, City Manager Date

ATTEST:

_____
Scotty Lynn Kelly, City Clerk

APPROVED AS TO FORM:

_____ _____
John D. Agnew, City Attorney Date

Exhibit A

# Zambelli
FIREWORKS

## FIREWORKS PROPOSAL
## City of Sanibel
## July 4, 2026
## 2025 - Renewal



Fireworks proposal prepared by Zambelli Fireworks

Morgan Steel
Project Manger
(954) 471-0043
M.Steel@zambellifireworks.com

Zambelli
FIREWORKS

## Display Overview:

**Show Date:** July 4, 2026

**All inclusive Budget and Duration: 2025 Renewed Display**

**18 minute high impact display w Finale - $33,000**

**Insurance Liability Coverage:** $10 Million dollars (per show coverage) for each Fireworks Display. Zambelli uses the highest insurance premium in the industry with "AAA" rated companies.

**Permit/Fire Dept:** Zambelli Fireworks will secure all needed permits (unless otherwise specified by the City) and organize plans directly with Fire and Safety Authorities.

**Transportation Liability Coverage:** $5 Million dollars as required by United States Department of Transportation. (DOT)

**Workers Compensation:** Pyrotechnicians will meet all of the requirements of the Workers Compensation Laws of Florida.

**Transportation:** Fireworks and equipment will be delivered by qualified CDL drivers with Haz-Mat endorsed licenses as required by US DOT.

**Personnel:** Zambelli Certified Pyrotechnicians and Trained Assistants; no subcontractors used.

**Safety Procedures:** Zambelli Fireworks adheres to all safety regulations. NFPA 1123 code will be strictly enforced.

Zambelli
FIREWORKS

## Program Philosophy

Generally speaking there's an opening segment, main body and grand finale of a fireworks display. Just as a great play or movie has various segments that flow together, firework shows are similar type productions that should never leave the audience wanting more or leaving disappointed.

There are fundamental basics that Zambelli Fireworks adheres to, with which we create the best displays in the industry. Some of these fundamentals include:

- **No Dead Air** Just as any TV, radio or Big Screen Production, "Dead-Air" is simply not acceptable. At any given time there will be multiple firings of shots and shells in the air for the display.

- **Shell Size Combinations** A common way for companies to set a show is to shoot all 2 inch shells, then all 3 inch shells, then all 4 inch shells, etc. While this makes it easy for a technician, it is simply boring. Zambelli technicians are trained to set shows to create the ultimate in shell combinations for the various firing sites. For example, firing two 3 inch Gold Kamuro Willow shell (400 ft.) and six 2.5 inch Purple Dahlias is a great, beautiful combination. Firing two 3 inch Pink strobing lights and six 4 inch white strobing lights within seconds offers up to 8 seconds of beautiful strobes covering 200 to 400 ft in the air.

- **Rhythm and Intensity** Just as many movies have a loud, action-packed car chase one moment followed by a romantic scene the next moment, fireworks productions also need to flow. A show that is too fast or too slow can get monotonous. Zambelli designs shows that one moment are a constant barrage of colors and booms while the next moment may be soft horsetail golden willows fluttering down from the sky one-by-one.

- **Finales** There's a major art to shooting a spectacular finale. Many people think a finale is simply shooting a lot of shells. While true from a quantitative standpoint, a finale must make sense in order to entertain most effectively. Zambelli deigns finales that start slower and lower. For example, 3 inch peony finale shells fired every half-second for 20 seconds may then grow in intensity to include white or silver glittering for the next 20 seconds. Then larger 4 inch blue cracking spiders take over while 3 inch white coconut trees are laying the ground cover. Finally the 100 3 inch multi-color crossettes are covering the sky while the 3 inch titanium salutes are rumbling the skies for miles.

Zambelli
FIREWORKS

# Product Listing
# River District Alliance
# July 4, 2026 Fireworks Display

## Shell Count

**OPENING:**

| | |
|---|---|
| 10 | Three Inch Titanium Salutes with tails (loud, thundering booms) |
| 30 | Three Inch Red White & Blue Chrysanthemum Finale Shells |
| 15 | Four Inch Finale Shells |
| 12 | Six Inch Select Shells |

**BODY OF PROGRAM:**

| | |
|---|---|
| 90 | Four Inch Assorted Colors, Patterns and Special Design Shells |
| 70 | Five Inch Assorted Colors, Patterns and Special Design Shells |
| 43 | Six Inch Shells Select specials. |

**GRAND FINALE:**

| | |
|---|---|
| 40 | Three Inch Titanium Salutes with tails (loud, thundering booms) |
| 150 | Three Inch Red, White & Blue and Gold Brocade Finale Shells w/tails |
| 40 | Four Inch Assorted Finale Shells |
| 40 | Five Inch Long Duration Kamuro Effect Shells |
| 16 | Six Inch Specials |

# Zambelli
FIREWORKS

**OPENING:** An opening barrage is designed to attract the attention of the audience and entice them to pay attention…"The show has just begun!" The opening barrage for your event will certainly impress as a barrage of assorted colors, effects, and noise shells fill the night's air.

**The purpose of the opener is to impress on your audience that they are**
**PRESENTATION:** The main body of the fireworks display should not be just one shell fired one after another. It's about rhythm, timing, and choosing the perfect effects to complement one another to build themes. Some fireworks shells are designed to be extremely intense while others are designed to slow the pace down with beautiful, softer effects. The design team hand picks every display shell used to ensure a wonderful variety of effects. The audience will never see the same combinations of shells fired in a Zambelli production.

**Different size shells will be breaking simultaneously throughout the display. This allows us to vary the intensity of the show, but more importantly create beautiful canvases of color and effect in the sky, that stimulate both visually and audibly.**

**BARRAGES OF MULTI-SHOT DEVICES:** Multi-shot devices or barrage cakes are used to add to the dynamics of the show. Zambelli Fireworks uses only the highest quality Barrages with innovative effects, colors, and angles. These devices incorporate effect sizes from 1" to 2".

**GRAND FINALE:** and it will be GRAND!

Human nature is to remember things last experienced. The Grand Finale is what people will remember the most about a fireworks production. A poor finale will leave an audience disappointed. Zambelli Fireworks has a long tradition of supplying the best and biggest finales in the industry. It will be loud, it will be full of vibrant colors, it will be long, and it will leave a lasting impression. Hundreds of shots and effects of multi-color shells, gold and silver sparking lights, gold brocade crown shells and other effects coupled with chest-pounding titanium-salutes will be the magical ending of the grand display. The finale will be fired from multiple positions with dynamic angles. The incorporated shells, with

multiple different sizes and effects, will cover every inch of sky from 150 to 300 ft in the air.

**Products:**

Zambelli Fireworks carries an inventory of display shells that is more than 2,000 unique shapes, colors, patterns or varieties from nearly a dozen manufacturers. During the 2016 July 4th display season Zambelli fired more than 1,200 different types of unique shells during the opener, body and finale of shows. It would be next to impossible to discuss every single shell in detail and provide information on each one.

Zambelli chooses fireworks from a number of different manufacturers from around the world to provide audiences with both unique and creative products. Sunny, PyroEast, Vulcan, Dominator and Dancing products all come from premium Chinese manufacturers. Cabeller shells are very premium Spanish shells. Panzera from Italy make the best multi-shot shells and roman candles in the industry. Hosoya Japanese shells provide some of the best willow and kamuro shells in the world. Lastly, Zambelli still manufactures shells, some of which will be seen during the display.

**WHY CHOOSE ZAMBELLI?**

**Zambelli Fireworks prides itself on being able to provide the largest "bang for your buck." We have a Florida network which is unrivaled in the industry. With our offices in Boca Raton, a permanent storage facility in Okeechobee, and technicians around the state, Zambelli can pass the savings these local facilities provide, onto you. We can offer more shells, regular site visits for safety, and local technicians and management to ensure you receive the best production possible.**

**Zambelli Fireworks believes in honesty and integrity as a core company philosophy. We invite, and encourage, our clients to**

Zambelli
FIREWORKS

**audit our firing sites for quality and quantity of our fireworks and equipment.**

## Experience and Qualifications

Proudly known as the "First Family of Fireworks," Zambelli Fireworks is one of the oldest and largest American fireworks companies.

The corporate headquarters and main plant operations are based in New Castle, PA. The southeast regional office is located in Boca Raton, FL and the western office is located in Bakersfield, CA. Zambelli Fireworks currently employees over 40 full-time individuals and thousands of trained, qualified pyrotechnicians. All full-time staff and technicians working with your display will be fully trained, federally approved, Zambelli employees.

The Zambelli family has manufactured the highest quality fireworks and has presented artistic excellence in fireworks displays for over 100 years.

The Zambelli name is recognized and respected, worldwide. Competitors strive to achieve the name recognition that Zambelli Fireworks commands today.

Zambelli Fireworks is known worldwide for setting the industry standard in show design and technology.

George Zambelli, Sr. was the pioneer of Zambelli Fireworks for over 65 years. His father, Antonio Zambelli, brought the artistry to New Castle, PA from Italy.

George Zambelli Jr., current Chairman of the Board, is carrying on the Family Tradition of "Lighting Up the Skies!" The Zambelli family and year-round professional staff of technicians, designers, office staff and administrators are here to assist and guide you in the development and implementation that is specific for your fireworks event. We have a team of individuals ready to make your event an extreme success.

Zambelli
FIREWORKS

## Many of the most sought-after master pyrotechnicians in the industry are longtime employees of Zambelli Fireworks.

Experience means quality. Zambelli Fireworks is proud to have a number of individuals who have made long careers within the pyrotechnics industry. The Senior Plant Manager has over 35 years experience in fireworks, the Senior Choreographer/Show Designer has over 25 years experience in fireworks, and the Senior Product Manager has over 25 years experience choosing the highest quality shells and equipment. These individuals' dedication to the artistry of pyrotechnics creates a scenario for quality fireworks shows for every client, large and small.

## There's a tremendous dedication to technician training to ensure the safest display with the highest quality production.

All of our display technicians have attended Zambelli Fireworks' extensive training program and have met all of the rigid safety procedures, which exceed state and federal requirements. We offer a number of different training courses with extensive classroom and hands-on training, per year, around the country. New technicians must also work alongside experienced technicians to gain competence and meet the highest safety, regulatory, and overall performance standards.

## Zambelli Fireworks exists as the largest fireworks company in the United States for one reason...customer service and satisfaction EVERY SHOW!

Zambelli Fireworks is proud to be the largest fireworks company in the United States. However, we cannot rest on our laurels by simply being the largest. We must prove our quality and customer satisfaction to every client, on every show, every time. Clients trust us to successfully produce thousands of displays every year. Our goal is to outperform with every show, large or small.

**Zambelli**
FIREWORKS

## COMPANY EXPERIENCE:

### *Internationally Known Programs*

The Statue of Liberty, Super Bowls, Presidential Inaugurations, Visits of Kings and Queens, Times Square New Years Eve, Mount Rushmore, Washington D.C. and New York City Fireworks displays, Kuwait Display for the Troops in the First Gulf War and many more historical events.

### *Top U.S. Festivals and Civic Celebrations*

Thunder Over Louisville/Kentucky Derby Festival, Minneapolis Aquatennial, Pittsburgh 250th Anniversary, Boise Riverfest, Macon Cherry Blossom Festival, the North Carolina State Fair, Canton Football Hall of Fame, Tampa Gasparilla Celebration, the Florida State Fair and many more.

### *Sports Franchises and Venues*

Detroit Tigers, Pittsburgh Pirates, Baltimore Orioles, Colorado Rockies, Washington Redskins, Pittsburgh Steelers, Ft. Myers Miracle, Bradenton Marauders, Carolina Mudcats, Buffalo Bison, Charleston Riverdogs, Winston-Salem Wart Hogs, Louisville Bats, Clemson University, University of Miami, ACC Championship Game (Tampa), St. Petersburg Bowl (Tropicana Field) and a number of other College and HS Football venues.

### *Florida and Caribbean Displays*

Tampa Gasparilla Pirate Festival, Annual FFEA conference, Bradenton River Regatta, Carnival in the Sky – Immokalee, Edison Ft. Myers Festival of Light, Orlando July 4th, Boca Raton July 4th, Sanibel Island July 4th, Naples July 4th and New Year's Eve, Sarasota July 4th, Siesta Key July 4th, the Florida State Fair, Coconut Creek Festival, City of Winter Haven, Nevis West Indies, St. Thomas NYE, Puerto Rico NYE, and many more!

Zambelli
FIREWORKS

## Your Personalized Zambelli Fireworks Team and Technicians

Morgan Steel
Project Manager
(561) 395-0955 Office
(954) 471-0043 Cell
m.steel@zambellifireworks.com

Morgan Steel has been designing and displaying shows for Zambelli Fireworks for more than 6 years. He has produced and fired displays in South Florida for more than 10 years. Morgan works closely with customers to ensure that all logistics and planning are accomplished in the most efficient manner.

Danielle Fredrickson
Senior Customer Service Manager
561-395-0955
daniellefredrickson@zambellifireworks.com

Danielle is the person who works behind the scenes to make everything regarding the fireworks show logistics come together. She will work on the permit applications, certificates of insurance, technician coordination, area site maps, and can answer any question you may have regarding your fireworks display.

Zach Taminosian
Design Choreographer/Senior Technician
(561) 395-0955 Office
(239) 225-8012 Cell
zach@zambellifireworks.com

Zach is Zambelli Fireworks lead design choreographer for major displays. His 15 years fireworks experience, including both design and as a senior technician, gives him the knowledge and experience to create an awe-inspiring display every time. Zach has designed shows for the West Virginia 150th Anniversary, the National Boy Scouts Jamboree Conference, the Colorado Rockies, Downtown Pittsburg July 4th, New Year's Eve Times Square, the Minneapolis Aquatennial Target Fireworks, and many more.

# Zambelli
FIREWORKS

## Shell Descriptions

Listed below are a small sampling of the various shells and effects available from our vast inventory.

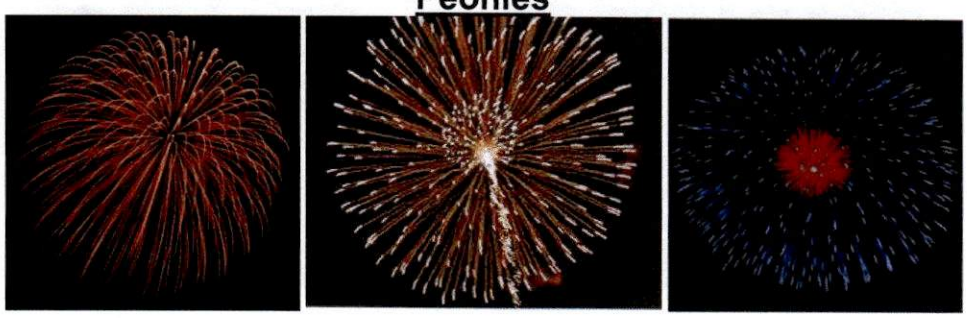
### Chrysanthemums



Description: Typically a spherical break of colored stars that leave a trail or sparks behind. May include pistils (center multi break stars) or other features such as multi-colored, half and half, cracking, etc.

| | | |
|---|---|---|
| Blooming Silvery Chrys | Glitter Silver to Red Chrys | Gold Wave to Red/Blue |
| White Twinkling Chrys. | Green to Purple Chrys | Varied Colorful Flowers |
| Red, White and Blue Chrys | Multi-Color Chrys | Silver and Gold Chrys |
| Spangle Chrys. w/rising tails | Silver to Purple Chrys | Purple with White Pistil |
| Variegated Rainbow Chrys | Multi-Color Chrys to Popping Flowers | |

### Peonies



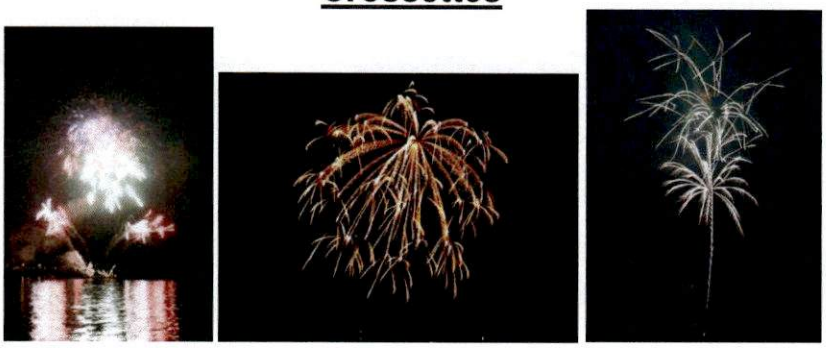
Description: Typically a spherical break of colored stars that leave no trail or sparks behind. May include pistils (center multi break stars) or other features such as multi-colored, half and half, cracking, etc.

| | | |
|---|---|---|
| White Peony | Blue Peony w/Blue Palm Tree | Silver Wave to Purple |
| Multi-Colored Peony | Yellow Peony | Green w/Gold Palm Tree |

# Zambelli
FIREWORKS

| | | |
|---|---|---|
| Purple w/Gold Palm | Red to Blue Peony | White Peony w/Blue Pistil |
| Variegated (rainbow) | White Peony w/Blue Pistil | Red, White and Blue |
| Glittering Peony | Silver to Red Peony | Silver to Blue Peony |

## Crossettes



Description: A crossette is a unique shell that breaks into 6 or 8 arms. Then, after some delay, those arms again break into multiple arms criss-crossing each other in a grid-like fashion throughout the sky. Larger caliber shells may even have a third break in all of the arms.

| | | |
|---|---|---|
| Blue Crossettes | Green to Blue Crossettes | Red to Blue Crossettes |
| Silver Crossettes | Variegated Rainbow Crossettes | Gold Rain Crossettes |
| Crackling Crossettes | Purple and White Crossettes | White Flitter Crossettes |
| Red to Green Crossettes | Purple Crown Royal Crossettes | Gold Flitter Crossettes |
| Blue Crossette Palm Tree | Rainbow Crossettes w/red Tails | Red Crossette Palm Tree |

## Duration/Lingering Effects (Willows, Brocades, Kamuros)



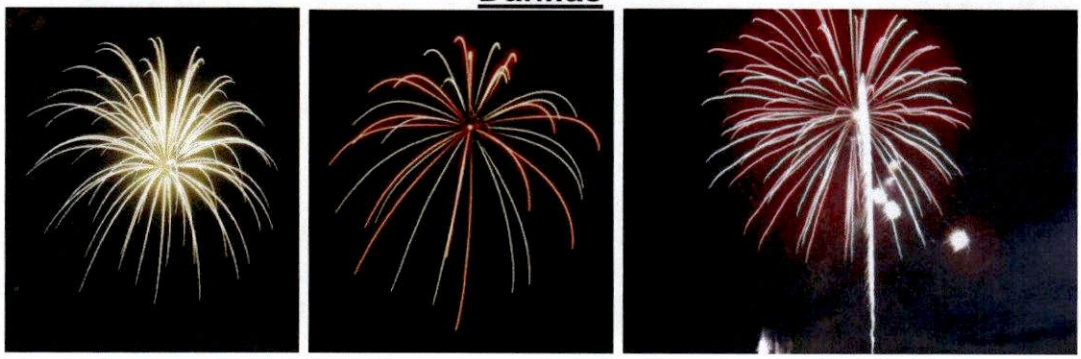
Description: A Long Duration/Lingering Effect is like a Chrysanthemum but burns slowly to the ground leaving a trail of aerial spark dust. These shells are many times gold or silver with various color tips, color changing, or have various colored centers. Zambelli uses many long duration effects at the end of finales to create a sky of gold or silver.

| | | |
|---|---|---|
| Long Duration Red Falling Leaves | | Ultra-Long Duration Gold Kamuro |
| Twilight Glitter w/Purple | Twilight Glitter w/Red | Brocade Crowns |

# Zambelli
FIREWORKS

| | | |
|---|---|---|
| Brocade Crown to Purple | Brocade Crown to Red | Long Duration Kamuro |
| Variegated Falling Leaves | Purple Falling Leaves | Super Brocade Crowns |
| Pixie Dust Willows | White Poca Shells | Gold Poca Shells |

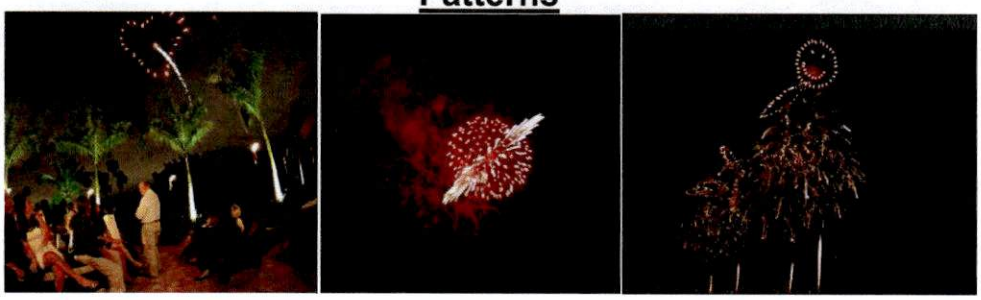
## Dahlias



Description: A Dahlia shell is like a peony but uses dramatically larger and fewer stars to create brighter, wider trails of sparks through the air. They are typically very bold, defined colors used to mix up the pace of a show. They many times are also used in finales.

| | | |
|---|---|---|
| Assorted Color Dahlia | Blue Dahlias w/Pistil | Green Dahlia w/Pistil |
| Red Dahlia w/Pistil | Yellow Dahlia w/Pistil | Red and Blue Dahlia |
| Pink Dahlia | Silver Dahlia | Gold Strobe Dahlia |
| Blue Strobe Dahlia | Red Strobe Dahlia | Purple Strobe Dahlia |
| Variegated Dalia | White Dahlia w/Red Tips | Lemon Dahlia |

## Patterns



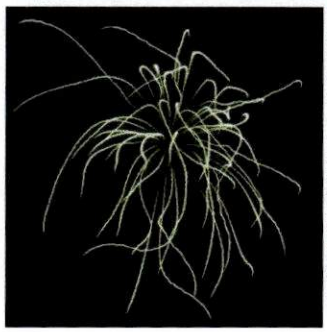
Description: Pattern shells come in a variety of shapes, sizes and depictions. Most notable shapes are shells with stars in patterns of hearts, smile faces, Saturn or other planet blasts, 4-leaf clovers, wagon wheels, etc.

| | | |
|---|---|---|
| Green to Blue Crossette Rings | Red Palm Trees | Blue Palm Trees |

# Zambelli
FIREWORKS

Half White Half Purple Ring
Green to Purple Ring
Triple Rings w/scattering stars
Crackling Palm Trees
Red Hearts
Jelly Fish Pattern
Octopus Shells
White/Red Bowtie in Ring
Triple Rings
Meteor Rings
Saturn Rings
Saturn Blasts

## Specialty Shells





Description: There's a variety of specialty, premium shells that include horsetail willows, scattering stars, bees, falling leaves, Palm Trees and other unique designs and effects.

Silver Bees
Aluminum King Shells
Large Silver Whirls (Serpents)
Trees of Many Colors
Red, White, Blue Dragon Eggs
Thousands of Gold Waves
Red, White, Blue Dragon Eggs
Blue Bees
Peacock Plume
Blue and Red Spiders
Thousands of Gold Waves
Gold Sparkling Kamikazes
Thousands of Red Waves
Silver and Purple Strobes
Horsetails
Treasure Chests
Kaleidoscopes
Red Shell of Shells
Popping Flowers
Tourbillions

## Specialty Noise





# Zambelli
FIREWORKS

Description: Noise shells come in many different types. The most popular are cracking, whistling or screamers, thousands of popping flowers, and the extremely loud titanium salutes.

| | | |
|---|---|---|
| Cracking Delight | Serpents with Reports | Diamond Screamers |
| Whistles | Large Silver Screaming Whirls | Crackling Double Rings |
| Crackling Coconut Trees | White and Green Scattering | Blue Crackling Spiders |
| Twice Crackling Rain | Tourbillion w/Reports | Blue Crackling Flowers |
| Green Crackling Flowers | Artillery Titanium | Thundering Tourbillions |

## Barrage Cakes

# Zambelli
FIREWORKS



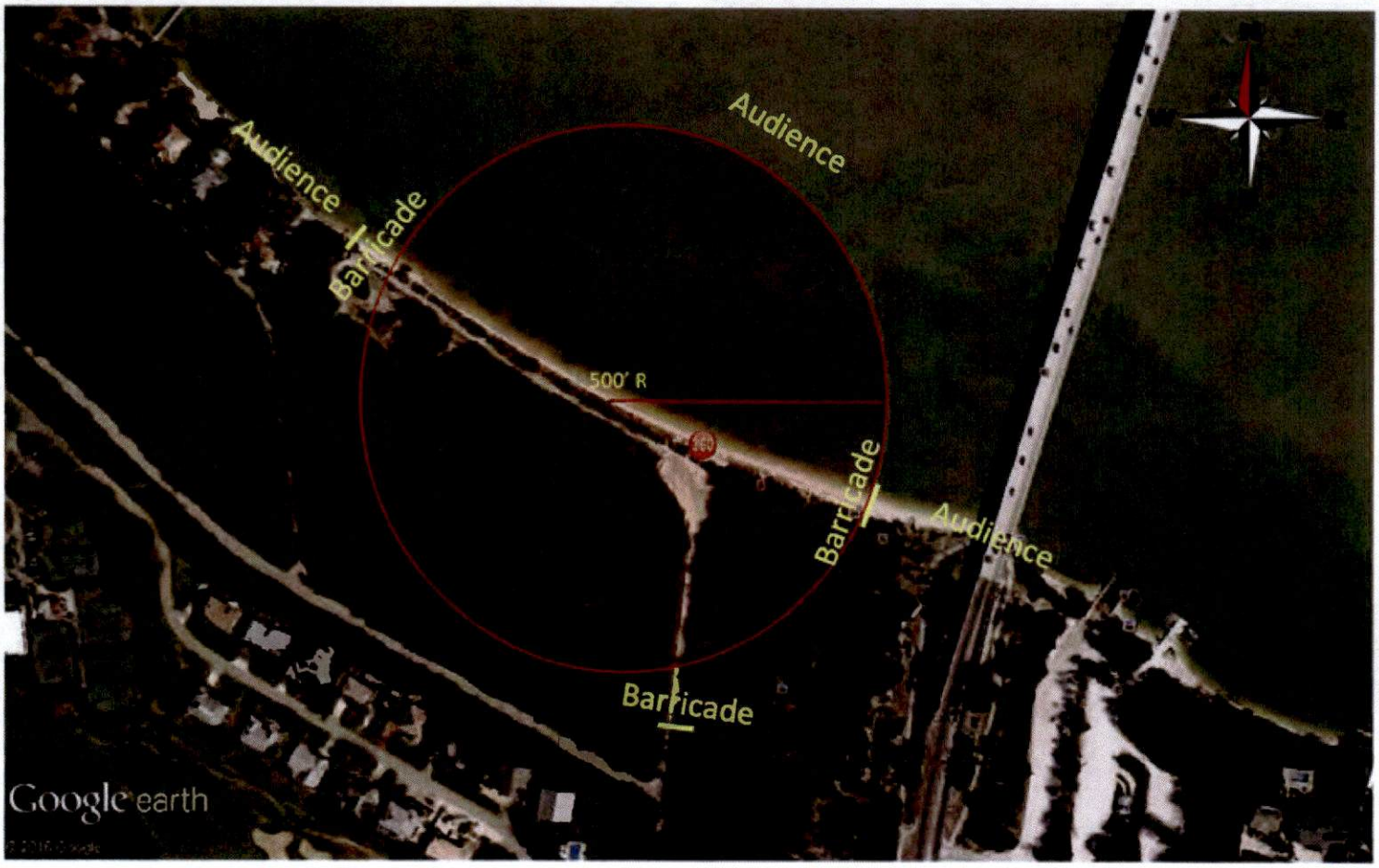
Description: Barrage Cakes or Multi-shot devices are designed to significantly enhance fireworks displays by adding hundreds of rapid-fire shots of various effects. They are mainly used to create tableaus in tandem with aerial shells breaking around the multi-shot devices. Below are a just a few examples of the various types and designs that will be used in your display.

35 Shot White Flitter Comet Box
35 Shot Red Crossette Fan Box
35 Shot Thunder Tourbillion Fan Box
35 Shot Dragon Eggs w/Tails
36 Shot Silver Fish with Tourbillion
36 Shot Assorted Colorful Falling Leaves
36 Shot Gold Twinkling Kamuro Box
36 Shot Red and Blue Crossettes
49 Shot Red and Silver Moons
49 Shot Red Crackling Tails
49 Shot Silver Crossettes
49 Shot Red and Green Crossettes
100 Shot Hammer Boxes
100 Shot Brocade Crowns
100 Shot Blue Crossettes with Tails
100 Shot Variegated Peonies
136 Shot W Shape Purple Kamuro
300 Shot 8 Shape White Strobe
372 Shot W-Shape Golden Willow

119 Shot Rapid Fired Gold Comets
192 Shot Fast Pearl Zippers
96 Shot Peacock Tails
140 Shot Silver Rain
80 Shot V-Shape Silver Coconuts
80 Shot V-Shape Rainbow Chrys.
200 Shot Whistling Comets
70 Shot Z-Shape Midnight Snow
400 Shot V Shape Rapid Fire Box
408 Shot Zipper Rapid Fire Box
300 Shot Finale Comet Box
665 Shot Silver Barriers
Angle Wipe Devices – (various angles)
Zipper Curtain Devices
Zipper Chase Devices
Fan Chase Devices
136 Shot W-Shape Silver to Green
300 Shot 8 Shape Red Pear Comets
408 Shot Z Shape Lime Green Pearl

# Exhibit B

City of Sanibel July 4th Pyrotechnics Site Plan




**Zambelli** FIREWORKS
1060 Holland Drive Ste J
Boca Raton, FL 33487
(561) 395-0955

City of Sanibel Fireworks Display,
Display located in permanently closed section of Bay Shore Dr.
Max 1.3g Firework Diameter 5"
Red Circle Depicts 500' radius which exceeds NFPA 1123 for 5" shells

**AGENDA MEMORANDUM** ***City Manager***

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Dana A. Souza, City Manager
Fred Mittl, Public Works Director

**Date:** March 24, 2025

---

**SUBJECT**: Fishing Pier Temporary Repairs Pending Full Replacement

**BACKGROUND**: The Sanibel Fishing Pier was damaged by Hurricane Ian and has been unavailable for public use since the storm. As City staff and residents worked to refine the scope of work and cost estimates for repairs, residents proposed dividing the project into two phases. Phase 1 would consist of all necessary top-side pier repairs and access improvements, at an estimated total project cost of approximately $200,000. This phase would allow the pier to reopen for public use while Phase 2 permanent repairs are designed and permitted. The previously proposed Phase 2 conceptual approach has been abandoned and changed to a full replacement of the fishing pier using a grant through the Tourist Development Beach and Shoreline Funding Program in the amount of $2,148,209.00, pending City Council acceptance of the grant.

At the January 13, 2026 City Council meeting, Council voted to proceed with the City/Community Partnership model for the Sanibel Fishing Pier Phase 1 repairs. Staff proceeded with the following based on Council direction:

- Engineering Services Contract – Utilizing donated funds, Public Works staff contracted with Shoreline Engineering for design, permitting and bidding of the proposed repairs.
- Design Phase – Shoreline Engineering prepared the plans (attached) for temporary repairs that will allow for reopening of the pier.
- Permitting - Environmental permits through the FDEP will be required for the temporary repairs project, which is estimated to take several months.
- City Oversight – Public Works staff is managing the engineer, reviewing deliverables, and collaborating with the Sanibel Fishing Pier Committee to review the design plans.
- Construction Phase – If approved by City Council and once sufficient private funds are raised, staff will issue an Invitation to Bid for the pier repair work. The project will be awarded to the qualified bidder that submitted the lowest bid.

The City Manager has authorized Public Works to solicit bids for the project based upon the completed design by Shoreline Engineering. Donated funds will be transferred to the City after bids are open and before a contract to complete the repairs is submitted to the City Council for approval. The temporary repairs are estimated to cost $200,000.

The Donor Agreement between the City, the Fundraising Committee led by Richard Birney, and the Charitable Foundation of the Islands is included in the agenda packet for City Council's approval. The Donor Agreement is the same as approved for the Roots in Resilience initiative.

**FUNDING SOURCE:** Private donations solicited by the Sanibel Fishing Pier Committee. Donated funds (approximately $30,000) has been transferred to the City to cover design costs. Donated funds (approximately $200,000) will be transferred to the City to cover construction costs.

**RECOMMENDED ACTION**:

1. Approve "Fishing Pier Temporary Repairs".
2. Approve Donor Agreement between the City, the Fundraising Committee led by Richard Birney, and the Charitable Foundation of the Islands.




# AGREEMENT TO ESTABLISH A DESIGNATED PASS-THROUGH FUND

## 1. NAME YOUR CHARITABLE FUND

Please indicate the name of your fund which shall be known as: Sanibel Fishing Pier Fund.

## 2. PURPOSE OF CHARITABLE FUND

The purpose of the Sanibel Fishing Pier Fund is to utilize donations to fund Phase 1 (temporary) improvements at the existing Sanibel Fishing Pier (Pier), as approved by the City of Sanibel (City). The Pier was significantly damaged by Hurricane Ian on September 28, 2022, and has since been closed to public use. The primary goal of the Fund is to reopen the existing Pier for public use as soon as possible. Funds not distributed to assist the City with funding the Pier repairs will be held by CFI to fund future maintenance expenses related to the Pier, as may be requested by the City.

## 3. FOUNDERS

The Founders of the Sanibel Fishing Pier Fund consists of individuals and/or entities who have initiated efforts to provide financial support, and to solicit financial support from donors to assist the City fund permanent repairs to the Pier.

## 4. INVESTMENT OF FUND ASSETS

All assets of the fund will be invested in the Charitable Foundation of the Islands (CFI) (the "Foundation") in a separate checking account with Bank of the Islands.

All contributions made to the Foundation become assets of the Foundation. Contributions are governed by the Foundation's Articles of Incorporation and By-Laws, as amended from time to time. The Foundation reserves the right to review and approve all contributions.

Donors to the Foundation may add to their funds at any time using a variety of assets, including cash, securities, restricted stock, and real estate. By default, all future contributions will be invested following CFI's investment policy.

## 5. CITY OF SANIBEL RESPONSIBILITIES

A. The City of Sanibel (City), as the owner of the Pier is solely responsible for the following:
   i. Managing and approving the design for Phase 1 (temporary) repairs to the Pier (Project).
   ii. Collaborating with a Donor committee on the final scope of work for the Project, including collaboration with the consultants or contractors recommended by the Donor committee or selected by the City through a competitive bidding process.
   iii. Obtaining all necessary permits related to the Project.
   iv. Managing all procurement related to the Project.
   v. Sanibel City Council approval is required for:
      a. The award contracts related to the Project
      b. Donor signage is to be installed at the Pier entrance. A concept of the Donor Signage is shown in Exhibit A. Approval of this agreement shall serve as the City Council's approval of the sign concept. Final approval of the sign text may be approved by the City Manager.
   vi. Maintenance of approved Donor signage.

B. The City Manager or Deputy City Manager of the City may request funds to support the completion of the Project, or for ongoing maintenance expenses associated with the Pier.

C. Contact Information for the City of Sanibel:

**Name of Organization (if applicable)**: City of Sanibel
**Mailing Address**: 800 Dunlop Road, Sanibel, FL 33957
**Phone (Work):** 239-472-4135
**Contact(s):**
Dana Souza (City Manager)
Steve Chaipel (Deputy City Manager/CFO, Finance Director
Email: dana.souza@mysanibel.com
Email: steve.chaipel@mysanibel.com

## 6. FUNDRAISING COMMITTEE RESPONSIBILITIES

A. Fundraising Committee will establish a committee of no more than three (3) people to collaborate with the City on this Project.
B. Fundraising Committee agrees to solicit donations to assist the City in funding Phase 1 (temporary) repairs of the Pier.
C. Fundraising Committee will design Donor Signage to be installed at the entrance to the Pier for City Council consideration and approval. Signage must be consistent with City signage at beach parks and meet the requirements of the City's Land Development Code.
D. If completing the Project is not feasible for some unforeseen circumstances, the Donors will be contacted and offered an opportunity to redirect their funds to another project. If a suitable project is not identified, funds may be returned to the donors.

## 7. CFI RESPONSIBILITIES

A. Manage Donor funds.

B. Upon request, provide payment to the City to fund the Phase I repairs and improvements or approved maintenance expenses only, unless the parties otherwise agree to broaden the payment scope in a separate written agreement.
C. Contact Information for the CFI:

**Name of Organization:** Charitable Foundation of the Islands CFI)
**Mailing Address**: PO Box 1429, Sanibel, FL, 33957
**Phone (Work):** 239-322-3818
**Contact(s):**
Dolly Farrell (Executive Director)
Savannah Kelly (Director of Community Engagement)
Email: dfarrell@sancapcfi.org
Email: savannah@sancapcfi.org

## 8. CFI FEES

It is understood that the Fund is charged an administrative fee by the Foundation and the pro rata share of investment management fees for the Investment pool in which it is invested. The Foundation will charge an annual fee of 2% to cover its operational costs, including the processing of checks, the production of acknowledgement letters, maintenance of a separate checking account, as well as the expenses associated with its numerous educational, philanthropic, and charitable programs on the Sanibel and Captiva islands. Fees may change as determined by CFI's Board of Directors.

The Fund is responsible for the payment of any credit card fees related to fund transactions. These fees typically range from 3-5% per credit card transaction.

## 9. DESIGNATED GRANT DISTRIBUTIONS

*The Charitable Foundation of the Islands will make grants to the City of Sanibel as listed below:*

a. Charity Name: City of Sanibel
Address: 800 Dunlop Road
City. State Zip: Sanibel, FL 33957

**Purpose:**

To support Phase 1 (temporary) of the Sanibel Fishing Pier rebuild, including repairs and maintenance. The City of Sanibel will provide input on the use of funds, and CFI will make distributions in alignment with the fund's charitable purpose, donor intent, and its fiduciary obligations.

Any excess funds shall be held in a dedicated fund or endowment by CFI to support future maintenance and enhancements of the Sanibel Fishing Pier.

## 10. INDEMNIFICATION

The Foundation agrees to indemnify, defend, and hold harmless the City, its agents, officers, and employees from and against any claims, losses, damages, costs, and expenses, including reasonable attorney's fees, to the extent arising out of the negligence or willful misconduct of the Foundation or its

authorized agents in connection with the Foundation's obligations under this Agreement. The Foundation shall have no obligation to indemnify the City for claims arising out of the City's own acts or omissions.

## 11. GOVERNANCE

It is intended that the Fund shall be a component fund of the Foundation and not a separate trust; furthermore, nothing in this agreement shall affect the status of the Foundation as an entity that is a qualified charitable Agency. This agreement shall be interpreted in a manner consistent with this intention to conform to the requirements of the Internal Revenue Code and any regulations issued pursuant thereto applicable to the intended status of the Foundation. The Fund is protected from obsolescence. The Fund shall be held and administered subject to the provisions of the Foundation's Articles of Incorporation and By-Laws as presently in effect or as each may from time to time be amended, including those provisions that may permit the CFI Board of Directors to amend, modify, or vary any of the purposes, directions, restrictions, or conditions set forth herein. However, the Foundation does not anticipate exercising such authority unless, in the sole judgment of CFI's Board of Directors, such restriction or condition becomes, in effect, unnecessary, incapable of fulfillment. or inconsistent with the charitable needs of the community area served.

CHARITABLE FOUNDATION OF THE ISLANDS
PHILANTHROPY LEADERSHIP COLLABORATION

I/WE HEREBY AGREE to and accept the terms of this agreement and the related policies *governing donor-designated funds*.

(Fundraising Committee Representative – Signature):
Date:

Dorothy Farrell 4/8/26

Foundation Representative – Signature Date:

City of Sanibel Representative – Signature Date:
Dana A. Souza
City Manager

**EXHIBIT A**


Restore Sanibel Pier
A Public Private Partnership
Sponsors

**STRUCTURAL INFORMATION:**

**1. DESIGN CODE DATA:**
A. 2020-2021 INTERNATIONAL BUILDING CODE
B. 2023 FLORIDA BUILDING CODE, BUILDING
C. ASCE 7.22: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
D. ANSI/AF&PA NDS 2005: NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURES

**2. DESIGN LOADS:**
A. DEAD LOADS:
- DOCK 20 PSF

LIVELOADS:
- DOCK 100 PSF

B. WIND DESIGN CRITERIA:
- WIND SPEED: 170 MPH (ULT)
- WIND SPEED: 132 MPH (NOMINAL)
- EXPOSURE: D
- RISK CATEGORY: II
- ENCLOSURE CLASSIFICATION: OPEN
- INTERNAL PRESSURE COEFFICIENT: 0.00

**3. MAXIMUM ALLOWABLE DEFLECTION CRITERIA:**
DECK: L/360 LIVE LOAD; L/240 TOTAL LOAD

# 144 PERIWINKLE WAY

## FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT

## LEE COUNTY



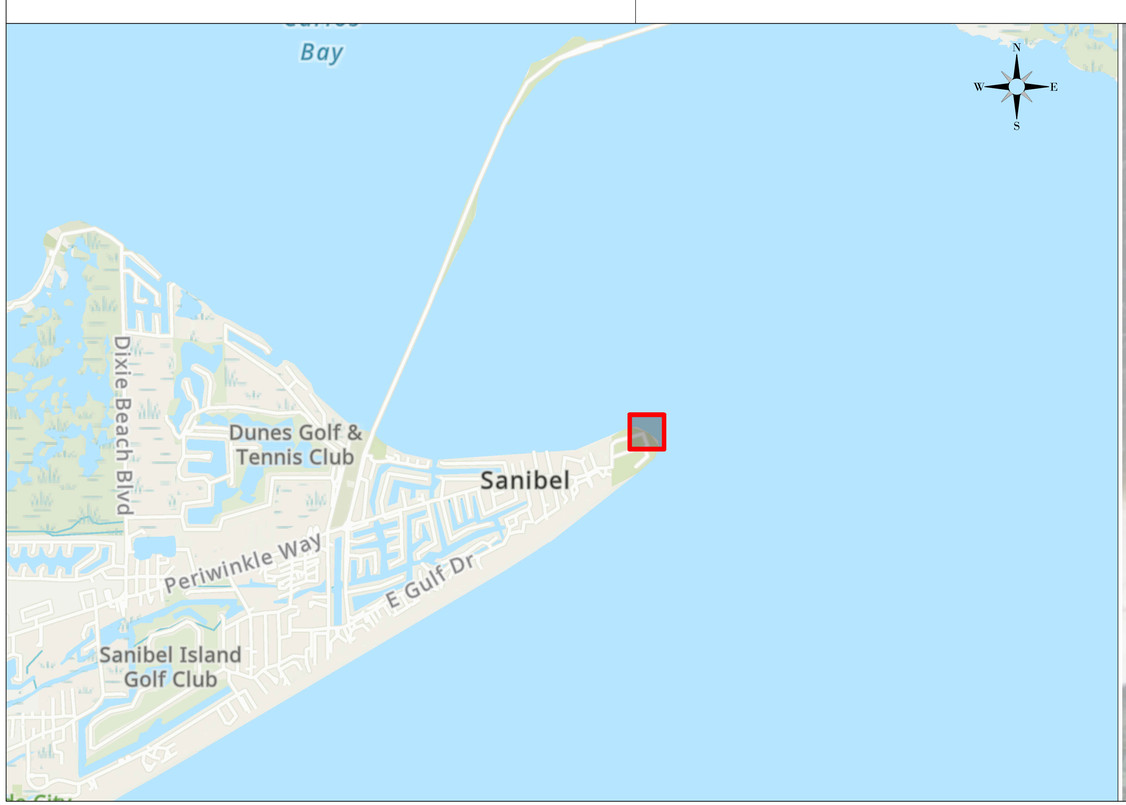

**SUBJECT PROPERTY:**

CITY OF SANIBEL
144 PERIWINKLE WAY
SANIBEL, FL 33957

PARCEL NUMBER: 1-46-23-T2-00038.0000
LAT/LONG: 26°27'17.01"N 82° 0'55.88"W
WATERWAY: SAN CARLOS BAY

**DESIGN INFORMATION:**

MEAN HIGH WATER (MHW) NAVD88: +0.18'
MEAN LOW WATER (MLW) NAVD88: -1.5'







SHEET INDEX


S-1 COVER SHEET
S-2 PLAN & PROFILE
S-3 DETAILS 1
S-4 DETAILS 2


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CLAY MCCOY P.E., ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

3/23/2026

CLAYTON MCCOY LICENSE No. 95147 STATE OF FLORIDA PROFESSIONAL ENGINEER

FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT

COVER SHEET

DRAWN BY: CLAYTON MCCOY, PE
CHECKED BY: ASA HUNT, PE
EOR: CLAYTON MCCOY, PE

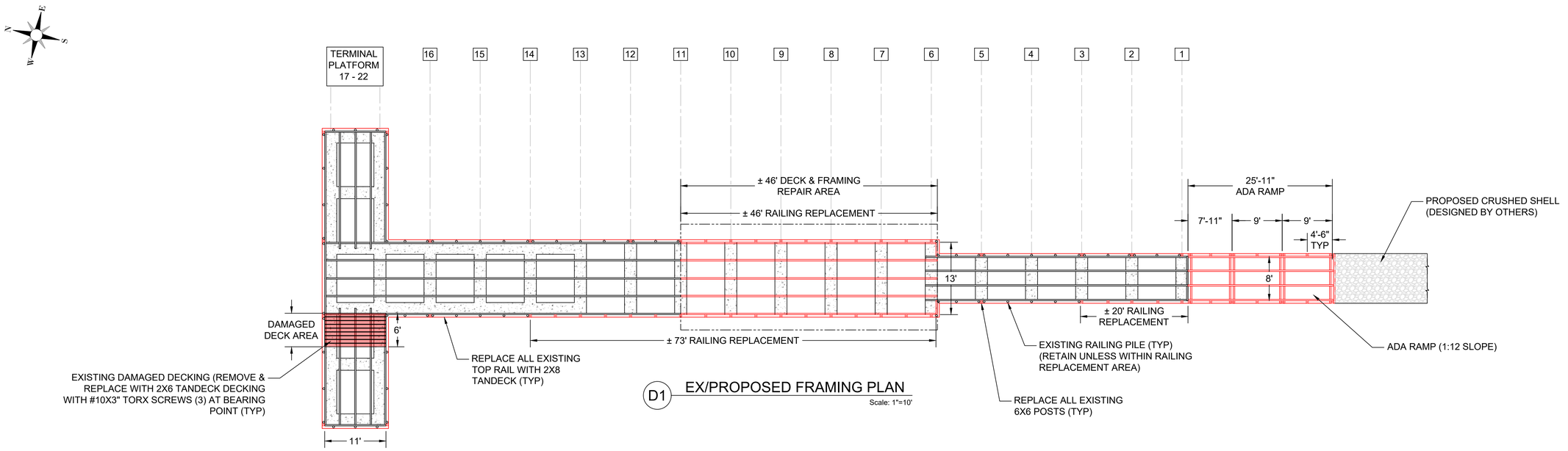
| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |
| | | |
| | | |


SHORELINE ENGINEERING
CLAYTON MCCOY, PE
PE LICENSE NO 95147
25 W CEDAR ST, SUITE 140
PENSACOLA, FL 32502


SUBJECT PROPERTY:
CITY OF SANIBEL
144 PERIWINKLE WAY
SANIBEL, FL 33957

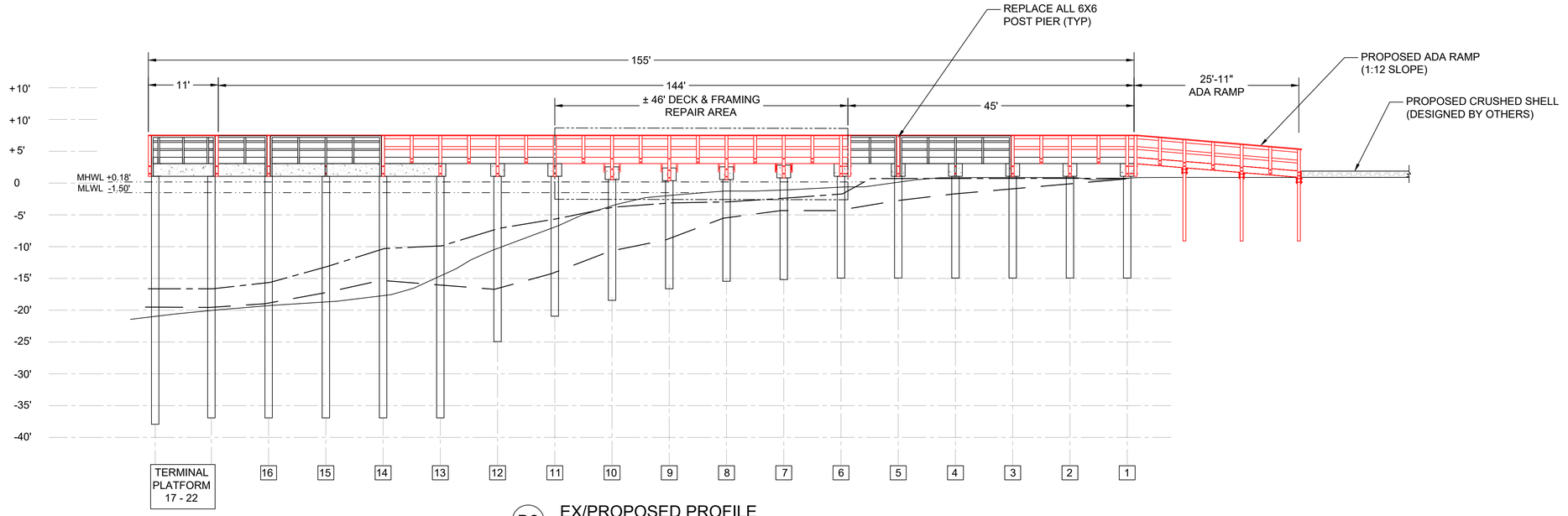
| PROJECT NO. | SHEET |
|---|---|
| FL-2026-090 | S-1 |
| DATE 3/23/2026 | |
| SCALE N/A | |

# FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT




D1 EX/PROPOSED FRAMING PLAN

Scale: 1"=10'




D2 EX/PROPOSED PROFILE

Scale: 1"=10'

WATER BOTTOM LEGEND:

- ORIGINAL DESIGN
- 12/16/2023 STANTEC
- 2/6/2026 SHORELINE ENGINEERING

EXISTING DOCK REPAIR LEGEND:

- EXISTING (RETAIN)
- PROPOSED WORK

FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT

PLAN & PROFILE

DRAWN BY:
CLAYTON MCCOY, PE

CHECKED BY:
ASA HUNT, PE

EOR:
CLAYTON MCCOY, PE

| NO. | DESCRIPTION | DATE |
|---|---|---|
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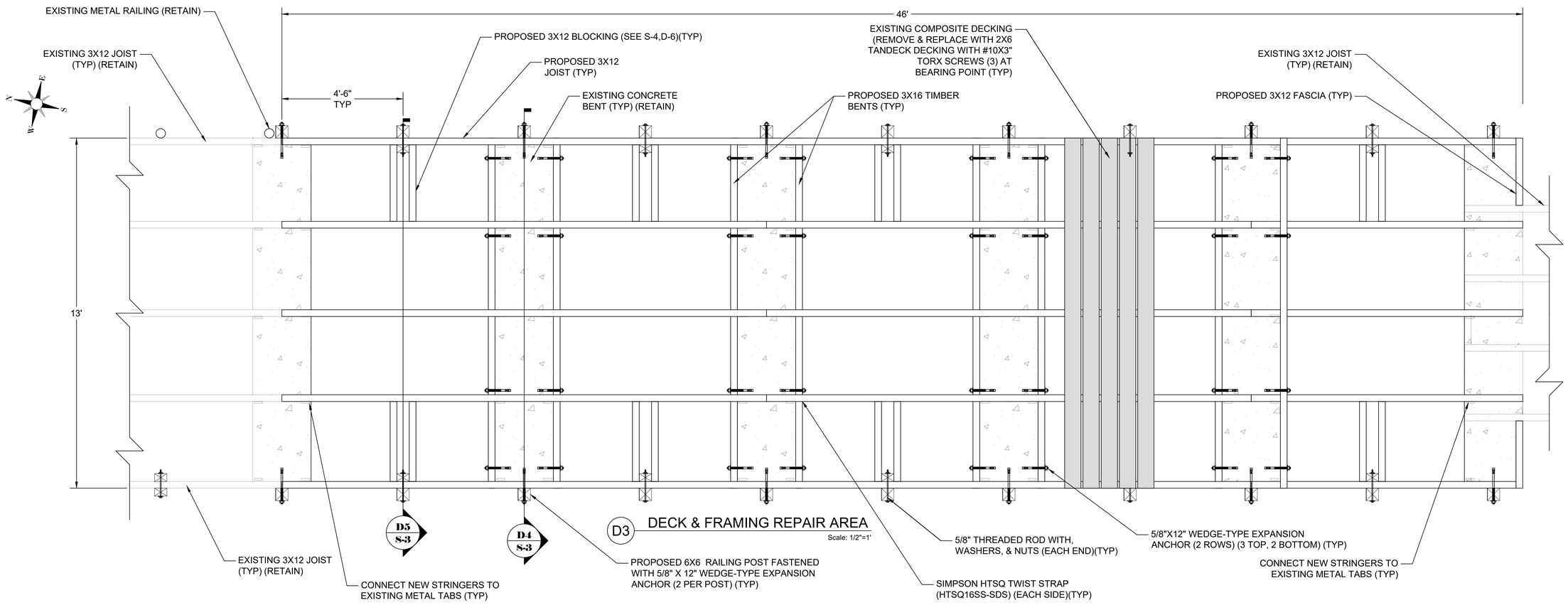

SHORELINE ENGINEERING

CLAYTON MCCOY, PE
PE LICENSE NO 95147
25 W CEDAR ST, SUITE 140
PENSACOLA, FL 32502

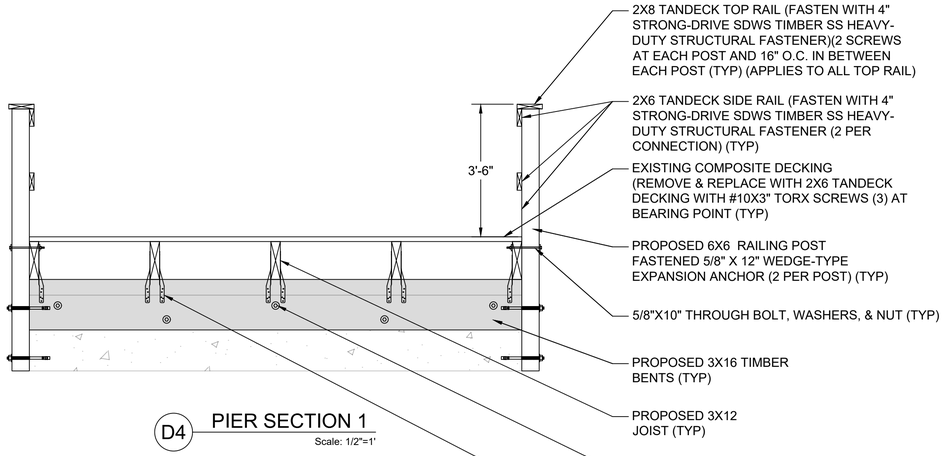

SUBJECT PROPERTY:
CITY OF SANIBEL
144 PERIWINKLE WAY
SANIBEL, FL 33957

| PROJECT NO. FL-2026-090 | SHEET S-2 |
|---|---|
| DATE 3/23/2026 | |
| 1"=10' 22X34<br>1"=20' 11X17 | |

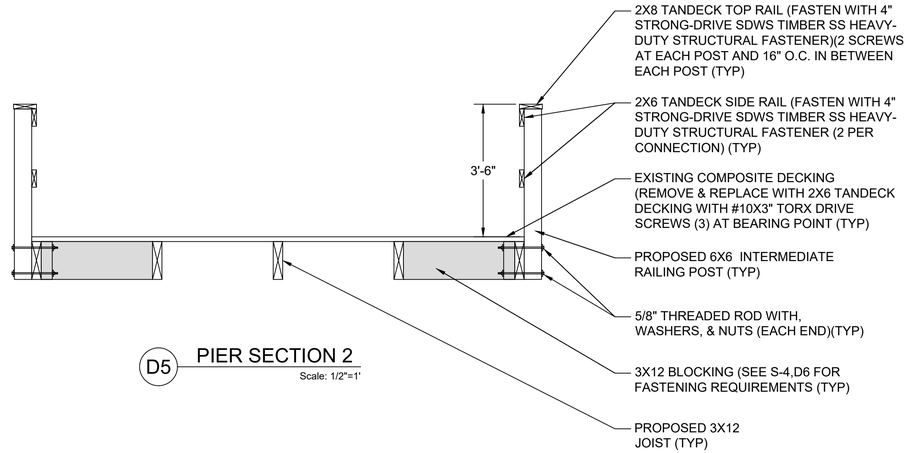
# FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT




D3 DECK & FRAMING REPAIR AREA
Scale: 1/2"=1'




D4 PIER SECTION 1
Scale: 1/2"=1'




D5 PIER SECTION 2
Scale: 1/2"=1'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CLAY MCCOY P.E., ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

3/23/2026

CLAYTON MCCOY LICENSE No. 95147 STATE OF FLORIDA PROFESSIONAL ENGINEER

FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT

DETAILS 1

| | |
|---|---|
| DRAWN BY: | CLAYTON MCCOY, PE |
| CHECKED BY: | ASA HUNT, PE |
| EOR: | CLAYTON MCCOY, PE |

| NO. | DESCRIPTION | DATE |
|---|---|---|
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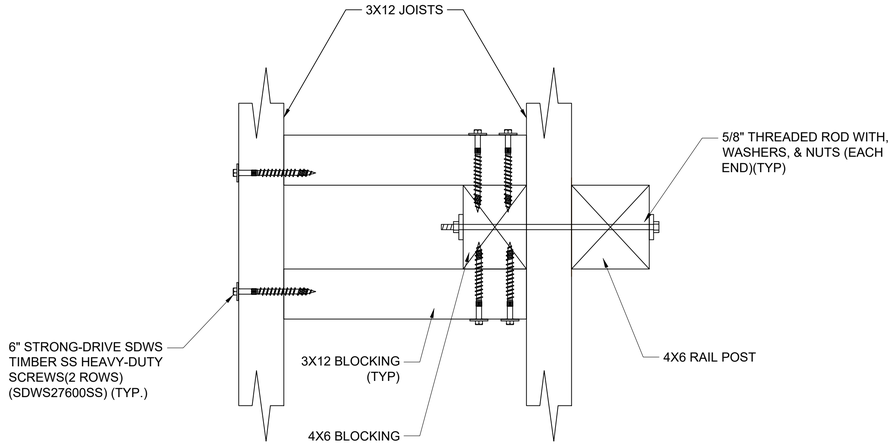

SHORELINE ENGINEERING

CLAYTON MCCOY, PE
PE LICENSE NO 95147
25 W CEDAR ST, SUITE 140
PENSACOLA, FL 32502

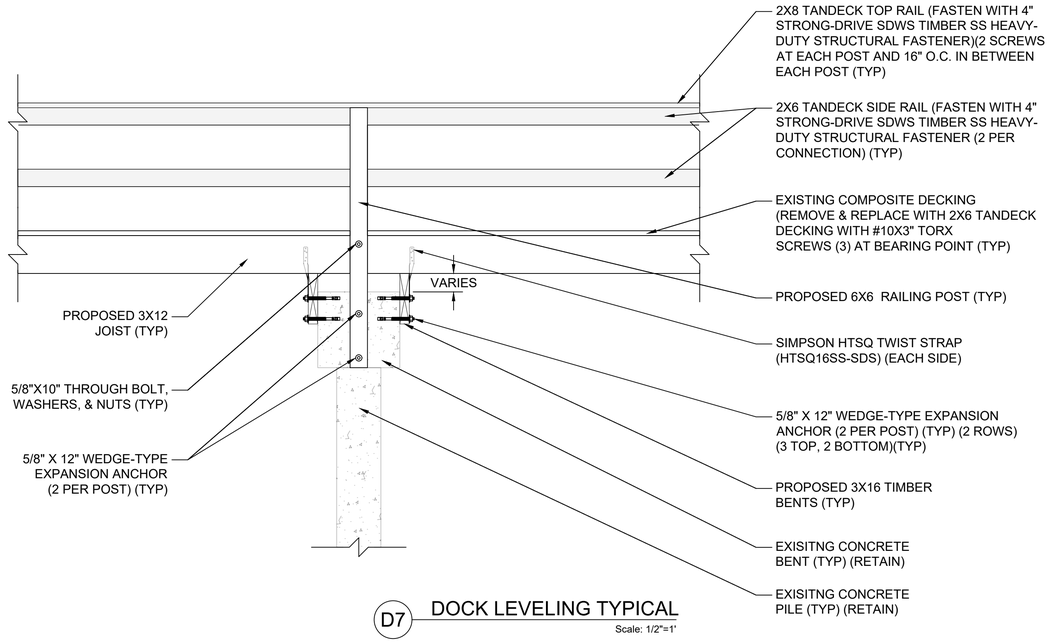

SUBJECT PROPERTY:
CITY OF SANIBEL
144 PERIWINKLE WAY
SANIBEL, FL 33957

| | |
|---|---|
| PROJECT NO. FL-2026-090 | SHEET S-3 |
| DATE 3/23/2026 | |
| 1/2"=1' 22x34<br>1" = 4' 11x17 | |

# FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT




D6 BLOCKING DETAIL
Scale: NTS




D7 DOCK LEVELING TYPICAL
Scale: 1/2"=1'

NOTE: APPLIES TO BENTS 7, 8, 9, & 10

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF REMOVING THE DAMAGED ALUMINUM RAILING AND REPLACING IT WITH A NEW WOOD RAILING SYSTEM. THE EXISTING WOOD SUBSTRUCTURE AND DECKING BETWEEN BENTS 6 THROUGH 11 WILL BE REMOVED AND REPLACED. ALL EXISTING 6X6 POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND REPLACED WITH NEW TREATED TIMBER POSTS. A NEW ADA-COMPLIANT WOOD ACCESS RAMP WILL BE CONSTRUCTED TO PROVIDE ACCESS TO THE ELEVATION OF THE EXISTING PIER. IN ADDITION, DAMAGED DECKING ON THE TERMINAL PLATFORM WILL BE REPLACED. THE PROJECT ALSO INCLUDES A COMPREHENSIVE INSPECTION OF ALL EXISTING HARDWARE, WITH TIGHTENING OR ADJUSTMENT PERFORMED AS NECESSARY TO ENSURE OVERALL STRUCTURAL INTEGRITY.

PROJECT NOTES:

1. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS. NO WORK SHOULD PROCEED IF DISCREPANCIES OR OMISSIONS ARE DISCOVERED WITHOUT CONSULTING THE ENGINEER.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT PROPERTIES, SURFACES, AND PUBLIC AREAS FROM DAMAGE DURING CONSTRUCTION. APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES MUST BE IMPLEMENTED TO SAFEGUARD THE SURROUNDING ENVIRONMENT, AS REQUIRED BY LOCAL AND STATE REGULATIONS.
3. TURBIDTY BARRIERS SHALL BE PLACED BEFORE CONSTRUCTION BEGINS AND SHALL ONLY BE REMOVED UNTIL AFTER CONSTRUCTION HAS BEEN COMPLETED AND SEDIMENT LOADS RETURN TO AMBIENT LEVELS.
4. NO REVISIONS OR ALTERATIONS MAY BE MADE TO THESE PLANS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OF RECORD.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS AND JOB SITE CONDITIONS PRIOR TO COMMENCING WORK AND NOTIFY THE ENGINEER OF RECORD FOR ANY DISCREPANCIES.
6. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND ALL OTHER PERSONS DURING CONSTRUCTION.
7. THE ENGINEER IS RESPONSIBLE FOR THE STRUCTURAL ITEMS IN THESE PLANS ONLY. SHOULD ANY CHANGES BE MADE FROM THE DESIGN AS SPECIFIED IN THE CALCULATIONS WITHOUT APPROVAL FROM THE ENGINEER (I.E. ALTERATIONS TO THE STRUCTURAL SYSTEM OR ADDITION OF CONSTRUCTION MATERIALS OR LOADS), THE ENGINEER WILL ASSUME NO RESPONSIBILITY FOR ANY ELEMENT OR SYSTEM OF THE STRUCTURE.
8. THE ENGINEER IS RESPONSIBLE FOR THE STRUCTURAL ITEMS IN THESE PLANS ONLY. SHOULD ANY CHANGES BE MADE FROM THE DESIGN AS SPECIFIED IN THE CALCULATIONS WITHOUT APPROVAL FROM THE ENGINEER (I.E. ALTERATIONS LO THE STRUCTURAL SYSTEM OR ADDITION OF CONSTRUCTION MATERIALS OR LOADS), THE ENGINEER WILL ASSUME NO RESPONSIBILITY FOR ANY ELEMENT OR SYSTEM OF THE STRUCTURE.

SPECIFICATIONS:

HARDWARE:

1. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
2. ALTERNATE BRANDS MAY BE USED IN PLACE OF THOSE LISTED WITHIN THE PLANS, PROVIDED THEY MEET OR EXCEED THE SPECIFIED MINIMUM REQUIREMENTS/SPECIFICATIONS.
3. CONTRACTOR TO INSPECT ALL EXISTING HARDWARE AND TIGHTEN ALL NUTS AND BOLTS ON EXISTING RAILING.
4. ALL METAL CONNECTIONS SHALL COMPLY WITH AISC SPECIFICATIONS AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND THESE DRAWINGS.
5. EXISTING HARDWARE SHALL NOT BE REUSED.
6. ALL ABANDONED OR UNUSED DRILLED HOLES IN EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED OF DUST, DEBRIS, AND LOOSE MATERIAL USING COMPRESSED AIR AND/OR BRUSHING. HOLES SHALL BE FILLED FLUSH WITH THE SURROUNDING SURFACE USING A STRUCTURAL EPOXY ADHESIVE OR EPOXY PATCHING COMPOUND SUITABLE FOR MARINE ENVIRONMENTS. SURFACE PREPARATION SHALL ACHIEVE A MINIMUM ICRI CONCRETE SURFACE PROFILE (CSP) OF 3 TO 5, OR AS REQUIRED BY THE EPOXY MANUFACTURER. EPOXY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO ENSURE A WATER-TIGHT SEAL AND ADEQUATE BOND TO THE EXISTING CONCRETE.
7. ALL ABANDONED OR UNUSED DRILLED HOLES IN EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED OF DUST, DEBRIS, AND LOOSE MATERIAL USING COMPRESSED AIR AND/OR BRUSHING. HOLES SHALL BE FILLED FLUSH WITH THE SURROUNDING SURFACE USING A STRUCTURAL EPOXY ADHESIVE OR EPOXY PATCHING COMPOUND SUITABLE FOR MARINE ENVIRONMENTS. SURFACE PREPARATION SHALL ACHIEVE A MINIMUM ICRI CONCRETE SURFACE PROFILE (CSP) OF 3 TO 5, OR AS REQUIRED BY THE EPOXY MANUFACTURER. EPOXY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO ENSURE A WATER-TIGHT SEAL AND ADEQUATE BOND TO THE EXISTING CONCRETE.

WOOD TREATMENT LEVEL:

1. ALL LUMBER SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
2. PILE BENTS & STRINGERS SHALL BE TREATED TO 2.5 CHROMATED COPPER ARSENATE (CCA)
3. RAILING SHALL BE TREATED TO 0.60 COPPER QUAT (ACQ).

LUMBER SPECIFICATIONS:

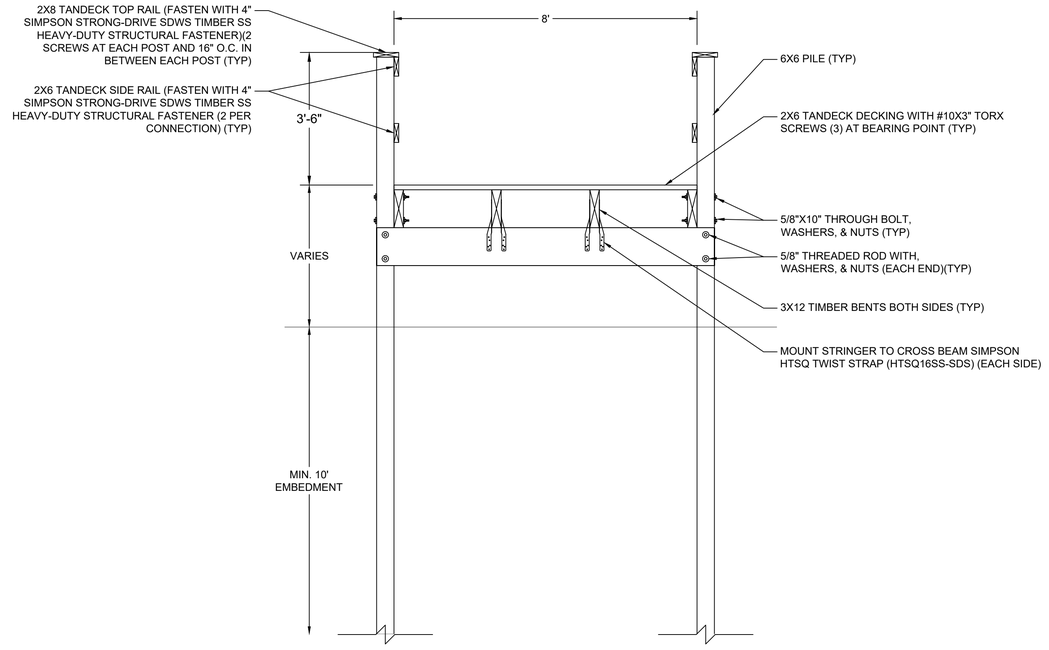
1. ALL PILE BENTS AND STRINGERS SHALL BE ROUGH CUT.
2. RAILING POSTS SHALL BE DIMENSIONAL.
3. RAILING POSTS (6X6) SHALL BE CENTERED ON EACH CONCRETE BENT WITH INTERMEDIATE POSTS (4X6) CENTERED BETWEEN EACH PILE BENT.
4. SPLICES IN BEAMS AND JOISTS ARE NOT ALLOWED BETWEEN SUPPORTS.
5. ALL STRUCTURAL LUMBER SHALL BE #1 GRADE

DECKING:

1. DECKING TO BE 2X6 (1-1/12" X 5-1/2") TANDECK COMPOSITE MANUFACTURED BY TANGENT TECHNOLOGIES, LLC. COLOR TO BE SELECTED BY THE CITY.

UTILITIES:

1. THE CONTRACTOR MUST VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
2. ELECTRICAL AND PLUMBING IF REQUIRED TO BE DESIGNED BY OTHERS.




D8 ADA RAMP DETAIL
Scale: 1/2"=1'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CLAY MCCOY P.E., ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

3/23/2026

CLAYTON MCCOY LICENSE No. 95147 STATE OF FLORIDA PROFESSIONAL ENGINEER

FISHING PIER TEMPORARY REPAIRS PENDING FULL REPLACEMENT

DETAILS 2

DRAWN BY: CLAYTON MCCOY, PE

CHECKED BY: ASA HUNT, PE

EOR: CLAYTON MCCOY, PE

| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |
| | | |
| | | |


SHORELINE ENGINEERING
CLAYTON MCCOY, PE
PE LICENSE NO 95147
25 W CEDAR ST, SUITE 140
PENSACOLA, FL 32502


SUBJECT PROPERTY:
CITY OF SANIBEL
144 PERIWINKLE WAY
SANIBEL, FL 33957

| PROJECT NO. FL-2026-090 | SHEET S-4 |
|---|---|
| DATE 3/23/2026 | |
| SCALE SEE SHEET | |

# AGENDA MEMORANDUM
## *Public Works Department*

**City Council Regular Meeting Date: April 21,2026**

**To:** City Council

**From:** Oisin Dolley, Assistant City Engineer

**Date:** April 8,2026

**SUBJECT**: Tradewinds Subdivision Drainage Improvements Project

**UPDATE:** The City continues to seek funding opportunities for this project. After the City's grant application to the State (FDEP) Non-Point Source Management Grant Program was not funded, the City Council requested a State Appropriation for the State's FY2026-2027 budget (October 1, 2026) in the amount of $4.2 million.

Currently, the Senate Appropriations Bille (SB 2500) recommends funding for the Tradewinds Drainage Project in the amount of $650,000.

The Legislature ended the 2026 Legislative Session without reaching an agreement on the State's FY2026-2027 budget. A special session will be convened so the House and Senate may reach an agreement on the budget. Funding for the Tradewinds Drainage Project will be considered at that time.

**BACKGROUND**: The City of Sanibel was approved for Hazard Mitigation Grant Program (HMGP) funding for the Tradewinds Subdivision Drainage Improvement project with a contract execution date of February 21, 2020.

The Hazard Mitigation Grant that was received by the City included a federal funding amount of $699,790.50. Unfortunately, the revised project cost does not allow the project to meet the BCA requirements of the HMGP program. After moving $211,498.50 to the East Rocks HMGP grant, the $488,292 of federal funding remaining in the Tradewinds HMGP grant expired on December 2025 and the funding is no longer available .

The previous bid opening for this project was held on September 19, 2020. Three bids were received as shown in the table below. Bids were rejected since they exceed budgeted funds. Project will be rebid once additional funding has been acquired.

| Company Name | Bid |
|---|---|
| Andrew Sitework LLC | $3,732,487.50 |
| V and H Construction Inc. | $3,766,871.33 |
| PWC Joint Venture | $4,282,763.10 |

City staff is maintaining regular communication with the Tradewinds Stormwater Task Force to keep them updated on the project.

**FUNDING SOURCE:** N/A

**RECOMMENDED ACTION**: N/A

**AGENDA MEMORANDUM** *Natural Resources Department*

**City Council Regular Meeting Date: April 21, 2026**

**To:** City Council

**From:** Holly Milbrandt, Natural Resources Director

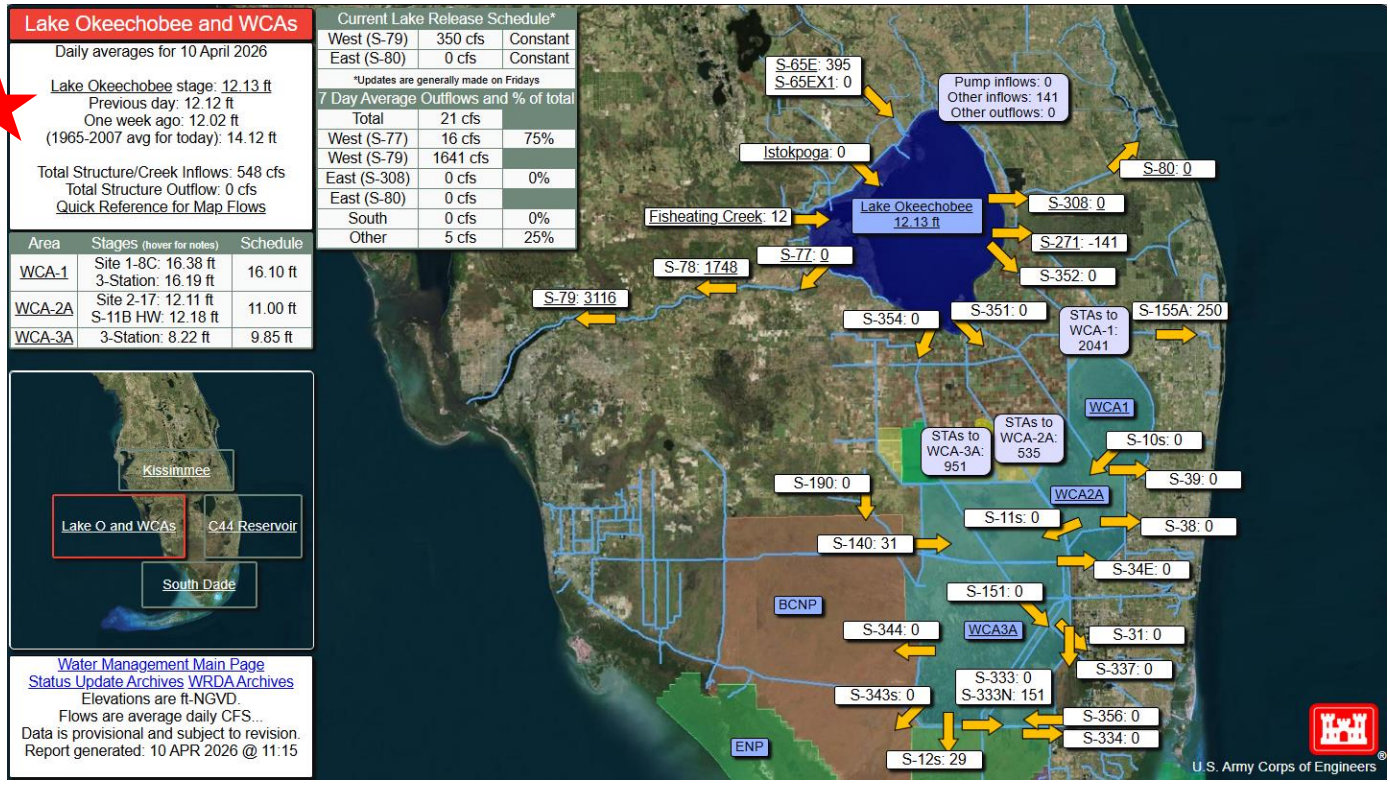
**Date:** April 10, 2026

**SUBJECT**: Natural Resources Water Quality Updates

**BACKGROUND**:

**CALOOSAHATCHEE RIVER & ESTUARY CONDITIONS REPORT**

**Note weekly stage increase**




Click to view: April 7, 2026 Caloosahatchee Conditions Report

## CURRENT RAINFALL AND CLIMATE OUTLOOK

SFWMD rainfall for March 2026 was above normal at 3.00" (123% of normal). Rainfall was highly variable across the District, with southernmost Florida receiving well above normal rainfall (3-6 inches total). For April 2026 to date, rainfall is above normal at 2.40" (296%), with the highest rainfall totals occurring in a band across the northern estuaries and Lake Okeechobee.
https://www.sfwmd.gov/weather-radar/rainboard

For the 2025/2026 dry season to date (October 11, 2025-April 9, 2026), the SFWMD has received 9.53" of rain (66% of normal). Rainfall varied some across the District, with the western EAA and Water Conservation Area 3 being the driest (48-51% of normal).
https://www.sfwmd.gov/weather-radar/rainboard

The NOAA Climate Prediction Center one-month Probability Outlook for April 2026 indicates a 30/40% chance of below normal rainfall for central Florida and equal chances of above normal, below normal, and normal rainfall for south Florida.
https://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead14/

The three-month outlook for Apr-May-Jun 2026 indicates equal chances of above normal, below normal, and normal rainfall for south Florida with a 33-40% chance of above normal rainfall for central and north Florida.
https://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead01/off01_prcp.gif

NOAA ENSO Report (updated on 4/6/2026):

- La Niña is present.
- Equatorial sea surface temperatures (SSTs) are near-to-below average in the east-central Pacific Ocean.
- A transition from La Niña to ENSO-neutral is expected in the next month, with ENSO-neutral favored through May-July 2026 (55% chance). In June-August 2026, El Niño is likely to emerge (62% chance) and persist through at least the end of 2026.
- https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf

## ALGAE BLOOMS

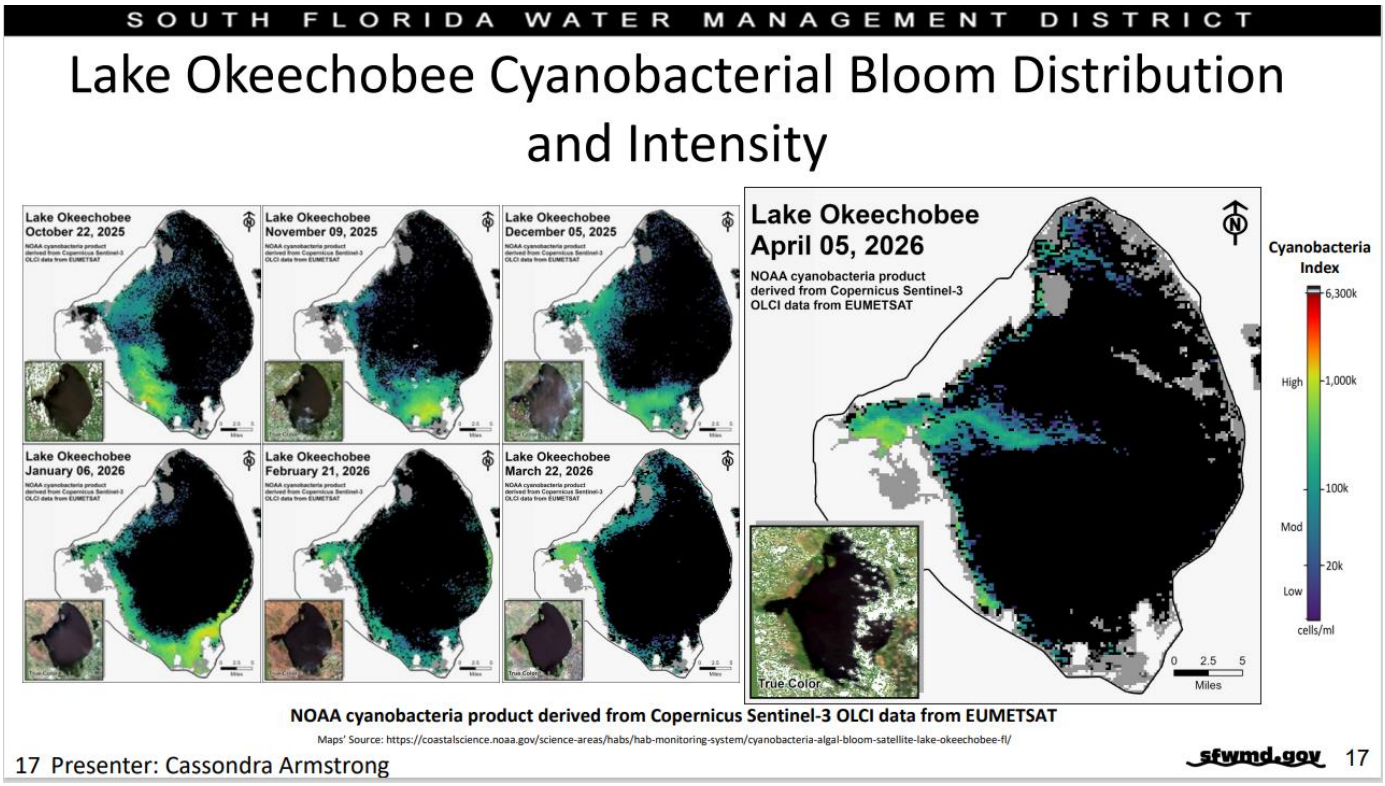
**Red Tide:** FWC Update for April 10, 2026
https://myfwc.com/research/redtide/statewide/

Over the past week, the red tide organism, *Karenia brevis*, was observed at background concentrations in seven samples from Northwest Florida. *K.brevis* was not observed in Southwest Florida.

Fish kills & respiratory irritation suspected of being related to red tide were not reported.



**Blue-Green Algae**: [ProtectingFloridaTogether.gov](ProtectingFloridaTogether.gov)
Blue green algae cautions are in effect for Lake Okeechobee at S354 as of 4/1/2026, and L005, and Polesout in Lake Okeechobee as of 4/7/2026.




**Red Drift Algae**: Recent winds have resulted in new, locally heavy red drift algae deposits on Sanibel beaches.


West Bowman's Beach—April 8, 2026


Clam Bayou/Silver Key—March 30, 2026

**Trichodesmium:** No reports

**Sargassum:** No reports

**PAST MEETING HIGHLIGHTS & UPDATES**

**South Florida Ecosystem Restoration Task Force**
**Working Group/Science Coordination Group**
April 2, 2026
West Palm Beach, FL
https://www.evergladesrestoration.gov/science-coordination-group/apr02-2026-scg

- Current Environmental Conditions & Seasonal Outlook
  - SFWMD confirmed that recent survey have found no freshwater seagrass (*Vallisenaria*) at the Ft Myers site in the Caloosahatchee as a result of prolonged high salinity conditions in the upper estuary.

**Blue-Green Algae Task Force**
**Advances in Science-Based Decision Making**
April 8, 2026
West Palm Beach, FL
https://www.protectingfloridatogether.gov/state-action/blue-green-algae-task-force

**SFWMD Governing Board Meeting**
April 9, 2026
West Palm Beach, FL
https://www.sfwmd.gov/news-events/meetings

- Executive Director's Report
  - Recent rainfall has allowed the SFWMD test new water management infrastructure
    - Initial pumping of water into the C-43 Reservoir—during the 3-year operational testing phase the reservoir will be filled incrementally to ensure the reservoir is functioning properly at each water level before reaching its "full" level of 15-25 feet.
    - https://www.facebook.com/SFWMD/videos/%EF%B8%8F-as-rain-continues-to-fall-over-south-florida-the-caloosahatchee-c-43-reservoir/966908299074252/?mibextid=wwXIfr&rdid=jFRBqTbtUUCrz812
  - Authorized entering into an amended agreement with Mudge Ranch LLC, for the Mudge Ranch Water Management Area Project, to extend the term by ten years. The approximately 300-acre project retains direct rainfall and excess runoff in order to reduce discharges and moderate flows from the West Caloosahatchee Basin. The ancillary nutrient retention benefits from the project are approximately 265 pounds of phosphorous and 2,116 pounds of nitrogen annually.
- Update on Water Supply Conditions and Resolution Proclaiming April 2026 as Water Conservation Month

**CHNEP Technical Advisory Committee**
April 9, 2026
Port Charlotte, FL
https://www.chnep.org/technical-advisory-committee

- Nutrients & Red Tide State of the Science Symposium Highlights — Betty Staugler, NOAA HAB Liaison Florida Sea Grant

**UPCOMING MEETINGS & EVENTS**

**SFWMD Progress Update on the Northern Everglades and Estuaries Protection Program (NEEPP)**
April 16, 2026
9:00 AM
West Palm Beach, FL
https://sfwmd.gov/event/progress-update-northern-everglades-and-estuaries-protection-program

**CHNEP Management Committee**
May 8, 2026
9:00 AM
Port Charlotte, FL
https://www.chnep.org/management-committee

**Florida Fish and Wildlife Conservation Commission Meeting**
May 13-14, 2026
Time TBD
Fort Myers, FL
https://myfwc.com/about/commission/commission-meetings/

**SFWMD Governing Board Meeting**
May 14, 2026
9:00 AM
West Palm Beach, FL
https://www.sfwmd.gov/news-events/meetings

**FUNDING SOURCE:** N/A

**RECOMMENDED ACTION**: N/A

April 3, 2026

Colonel Brandon Bowman
District Commander, U.S. Army Corps of Engineers Jacksonville District
701 San Marco Blvd. Jacksonville, FL.

Mr. Drew Bartlett
Executive Director, South Florida Water Management District
3301 Gun Club Road West Palm Beach, FL

RE: Increased Flows to the Caloosahatchee Estuary

Dear Executive Director Bartlett and Colonel Bowman,

The Everglades Coalition is an alliance of nearly 60 organizations dedicated to protecting and restoring America's Everglades with a 12.2-million-constituent network of followers. Our members continually engage on issues impacting all parts of the greater Everglades system, including the Northern Caloosahatchee and St. Lucie estuaries. We are writing to express our concern with the ongoing lack of sufficient fresh water to the Caloosahatchee Estuary through the S-79 structure and the concerning salinity imbalance resulting from these water management decisions. It is important to note as well, several additional portions of the Everglades system and stormwater treatment areas (STA's) have also been facing the ramifications of a drier than average season and the associated lack of available fresh water. A multitude of ecosystems and stakeholders in South Florida will continue to be negatively impacted from current water management decisions if existing flow schedules remain unchanged.

The Caloosahatchee River and Estuary (CRE) is a delicate system requiring a specific balance of both fresh and saline water. The ecosystems, wildlife and communities dependent on the CRE's health and productivity are directly impacted when this salinity regime is imbalanced. As this letter is drafted in April 2026, the Caloosahatchee Estuary has been receiving less fresh water than ecologically required for the health of the system since mid- October 2025. Prolonged, heightened salinity levels from this shortage continue to inflict damage that will take ecosystems within the estuary, as well as local economies, years to recover from. Maintaining the ecological balance of the CRE requires a highly specific salinity envelope, derived from the mix of surrounding saline waters and fresh water from the Caloosahatchee River and watershed. Species in these ecosystems require specific salinities for their survival, foraging and reproduction. Salinity tolerances for the Eastern oyster and tape grass are used in the RECOVER 2020 metrics to determine the necessary fresh water flows the CRE must receive to maintain overall health and productivity. Oysters and tape grass were designated as indicator species due to the ability to extrapolate the ecosystems' health as a whole based on their status. While harm to these species alone is of concern, their degradation also signals a chain of cascading ecological impacts. Oysters and tape grass provide critical habitat for many species, with reductions in fish and invertebrate populations as an anticipated result of stress and/ or harm to these habitats. Damage to these habitats will be felt by our local economies that are dependent on healthy ecosystems to thrive. The lack of optimum fresh water flows reduces viable habitat area for species with specific salinity tolerances, known as habitat compression. For vulnerable species such as juvenile fish this can force them to areas with higher rates of predation, decreasing population sizes, and ultimately impacting the population for years to come.

Often, high flows to the estuary garner sizable public attention due to the nutrient pollution, water discoloration and relationship to harmful algal blooms associated with large, managed releases

from Lake Okeechobee. These events are visible to the naked eye and impossible for residents and tourists to ignore. The influx of fresh water from receiving higher than optimum flows lowers salinities to harmful levels, causing harm to key indicator species and altering ecosystem dynamics. While the impacts of high flows present themselves clearly, a host of devastating consequences are also dealt to the CRE from the quieter, less visible threat of insufficient fresh water. In recent months, the CRE has suffered the impacts of freshwater flows much lower than optimum for ecological health of the system. The optimum flow envelope for maintaining healthy salinities in the CRE system is 750- 2,100 cubic feet per second at the S-79 structure, as clearly outlined by RECOVER 2020 metrics. When flows within this envelope are maintained, salinity tolerances for key indicator species are maintained as well.

Beginning in mid-October 2025, flows at S-79 began falling below the optimum flow envelope and salinities in the CRE started to rise. That trend has continued from October to the current time, with no planned flow schedule modifications announced. As of April 2, 2026, the 14- day moving average at S-79 has been below the bottom threshold of the optimum flow envelope (750 cfs) for **159 days**.

Measured salinities have consistently surpassed the suitable range for tape grass in the upper estuary and for oysters in the lower estuary. During this period, the 30-day moving average at S-79 consistently fell below the required Minimum Flow and (MFL) Level for the Caloosahatchee (457 cfs) for **109 days**. While there has been a slight reprieve on falling below this metric in past weeks, considerable harm to local ecosystems during that period is believed to have occurred. Flows falling below the MFL metric, and the associated rise in salinities, cause stress and harm to species that take years to recover from. Harm to indicator species, already visible through out-of-range salinity data, represent harm to the entire CRE ecosystem. That harm is not isolated to species within the estuary but reflects on surrounding communities and economies far into the future. Therefore, while Lake Okeechobee remains above the water shortage management band and precipitation forecasts remain variable, we respectfully ask for supplemental lake flows to be sent through the S-79 structure to maintain the required salinities in the Caloosahatchee River and Estuary. Management to boost flows at S-79 to a constant release schedule within the 750- 2,100 cfs envelope would make a substantial difference for local ecosystems while causing a minimal difference in lake levels. While a certain amount of ecological harm has already occurred, alterations to flows now can still have a considerable, positive impact on species and their habitat within the CRE. For the protection of the Caloosahatchee estuary and the communities directly dependent on its health, we ask you to thoughtfully consider this request.

Sincerely,

Matt DePaolis
Environmental Policy Director
Sanibel- Captiva Conservation Foundation

Tammy Ash
Senior Water Policy Advisor
Conservancy of Southwest Florida

Janet Windisch
Corresponding Secretary
Cape Coral Friends of Wildlife

Marcelo Balladares
Everglades Restoration Organizer
Sierra Club Florida Chapter

Dan VanNorman
Vice President
Audubon of Southwest Florida

**PARKS AND RECREATION ADVISORY COMMITTEE**

**ANNUAL REPORT**

**2025**

**Committee Accomplishments:**

- Development of Donation and Naming Rights Policies, May 2024 – February 2025. Provided recommendations to City Council, March 2025
- Discussion and ranking of for 2024 Shared Use Path Master Plan Enhancements and Extensions
- Analysis, discussion and recommendation on Recreation Membership Fees for FY26
- Developed matrix of recommended 5-year recreation capital projects for City Council consideration during FY 27 budget process
- Feedback to provided on Sanibel Plan Update – Recreation and Open Space Element
- Performed regular review of Recreation Department program usage, fees and membership data.

**Committee Recommendations to City Council:**

- The following recommendations are listed below without regard to priorities:
    - Naming Rights and Donation Policies – Council adopted Resolution 25-012 Donation Policy and Resolution 25-013 Naming Rights Policy
    - Provide ranking recommendations for 2024 Shared Use Path Master Plan Enhancements and Extensions
    - Recreation Center Membership Fees for FY26 – adopted Resolution 25-037
    - Continue to explore recreational opportunities (parks, open spaces, shared use paths, recreation center, etc.) island wide as part of the Sanibel Plan update and FY27 budget process.

Respectfully submitted,

Members of the Committee:

Christopher Denick, Chairperson

Wendy Walker, Vice Chairperson

Bernard Arroyo

Dorothy Plumb

Ralph Quillen

Angi Semler-Welch

Kyle Sweet

Date Submitted: April 2026

# City of Sanibel
# Historic Preservation Committee
# Annual Report 2025

**Responsibilities**

1. Continue communication and coordination between the Sanibel Historical Museum and Village, Inc. (501c3) and the City of Sanibel's Historical Preservation Committee.
2. Continue to research, review and inventory historic resources such as books, articles, maps, videos and public records.
3. Examine available funding opportunities and other benefits to support the preservation, maintenance and rehabilitation of existing and future local Historic Landmarks.
4. Continue to support ongoing public educational programs regarding the importance of Sanibel's unique historic legacy.
5. Continue to inventory and collect information on historical sites and structures on Sanibel.

**Accomplishments**

1. Conducted four meetings at 9:00 a.m. on the first Thursday of February, April, September, and November. Monthly meetings for January, March, May, June, July, August, October, and December were canceled.
2. Approved the acquisition of the Doug McGregor Cartoon Collection and the Symroski Donation to the Sanibel Historical Museum and Village.
3. Planning Director Paula McMichael presented an overview of the Sanibel Plan date update. The HPC approved the proposed revisions to Local Register of Historic Sites and Structures.
4. Approved changing the HPC schedule to quarterly meetings (February, May, August, and November) with the option to add meetings if applications are received that require HPC review.

**Recommended Actions for 2026**

1. Continue the funding and support of the preservation and maintenance of the Sanibel Historical Museum and Village buildings and grounds.
2. Provide information to owners of historic properties that includes the benefits, responsibilities and requirements of the preservation of historic properties.
3. Continue receiving reports regarding the Sanibel Historical Museum and Village.
4. Pursue additional methods to preserve and/or document historical resources of interest within the community.

**Members**
Deborah Gleason (Chair), Patricia Norton (Vice Chair), Emilie Alfino, Yvonne Hill, and Mary Jurgens

**City of Sanibel Representative**
Kim Ruiz, Planning Department

**Date Presented** February 5, 2026
**Date Revised**
**Date Approved**

# CITY OF SANIBEL
# VEGETATION COMMITTEE
# ANNUAL REPORT 2025

**Issues:**

- Aid in the Recovery of Hurricane Ian, Milton, Helene, and other extreme weather events
- Promote the use of native plants, the removal of invasive plants, and the adherence to the Sanibel Fertilizer Ordinance as directed by the City
- Promote the preservation and conservation of water resources
- Promote recruitment of Vegetation Committee members by the City

**Accomplishments:**

- Issued a proclamation designating January 17, 2025 as Florida Arbor Day on Sanibel
- Issued a proclamation designating October 2025 as Florida Native Plant month on Sanibel
- Participated in multiple outreach events at the Sanibel Farmer's Market to educate the public on the importance of native plants and the negative impacts of invasive exotic vegetation.
- Native plant walks were hosted on City Hall grounds from December 2024 through April 2025 to provide identification and information on planting and care of native plants. Literature about native plants and gardening with resilient and salt-tolerant species was provided to the nearly 75 participants in attendance.
- Facilitated the digitalization of the native plant walk education packet for the public.
- Coordinated and conducted an in-person Arbor Day activities at Community Park to begin revegetating areas that were impacted by recent hurricanes. A Mahogany was planted, with special recognition to the founding members of Sanibel for the 50$^{th}$ Anniversary.
- Continued to work with Natural Resources to increase and enhance aspects of City Hall property used for the education of landscapers and visitors.
- Coordinated a guest speaker series and featured 7 different topics to assist residents and business owners with hurricane resilience, current conservation initiatives, and landscaping best management practices
- Held 11 meetings at 1:30 p.m. on the first Thursday of the month except August.

**Recommendations to City Council**

- Continue Arbor Day activities
- Continue City Hall Plant walks including e-mail notification and press releases when City Grounds are restored
- Provide aid in the revegetation of demonstration garden after recent hurricanes on City Hall grounds for native plant walks
- Continue providing native plant articles for the Sanibel newspapers and City website
- Continue to provide educational opportunities pertaining to the natural environment to the public.

**Full Members**

Barbara Wyskowski, Pam Miller, Barbara Boyce, Barbara Horvath, Vincent Simonelli

**Adjunct Members:**

Ruth Brooks

**City Liaison –** Rachel Rainbolt, Conservation Officer

**Date Submitted:** Date TBD, 2026

| Future City Council Agenda Items | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **Topic** | **Requested By** | **Date** | **Council Consensus** | **Council Meeting Date Targeted** | **Notes** | **Action Status** |
| 1 | Adding on-road bike lanes. | J. Henshaw | 9/9/2024 and 5/6/2025 | | TBD | Consideration of on-road bike lanes as part of the Transportation Master Plan to include review of lane width (11'), one-way on road bike lane (shoulder). | To be studied as part of the Transportation Master Plan which began 8/ 2025. |
| 2 | Tradewinds subdevelopment. Funding for drainage improvements. | M. Miller | 5/6/2025 | | TBD | Consider using loan funds (Library Way property) for this project. Seeking State funding for project. | City submitted an appropriations request for 26-27 state budget. |
| 3 | Town Center history and discussion of expanding Town Center District(s) to include other parcels | H. Smith | 10/7/2025 | Yes | 6/2/2026 | Discussed with Vice Mayor | |
| 4 | Voluntary elevation allowances and angle of light considerations | M. Miller & L. DeBruce | 11/4/2025 | Yes | TBD | Discussion to include what code changes are needed to accommodate home elevations (businesses?) that are conforming & nonconforming. To include angle of light discussion. | |
| 5 | Dewatering Ordinance Update | M. Miller | 12/16/2025 | Yes | June | Update of dewatering Ordinance. | Section 4 of Mayoral Proclamation |
| 6 | Coyote Depredation of Sea Turtle Nests | City Council | 2/3/2026 | Yes | June | Schedule public workshop followed by a Special City Council meeting once the Coyote Working Group collects questions/management options from City Councilmembers. | Collecting information from City Councilmembers |
| 7 | Creation of a City Center | J. Henshaw | 3/3/2026 | Yes | 6/2/2026 | Possibly combine with Town Center Discussion | |
| 8 | Coyote Population Study | L. DeBruce | 3/3/2026 | Yes | June | Update cost to complete a study of the coyote population on Sanibel to determine population size, habitat range, etc. Draft scope is from previous study proposals. | Seeking proposal update |
| 9 | Sea Turtle Nest Protection Funding | L. DeBruce | 3/3/2026 | Yes | June | | Discussing funding needs with NR and SCCF. |
| 10 | City Committee Terms | L. DeBruce | 3/3/2026 | Yes | 6/2/2026 | Staff has been developing code amendments for the City Council to consider. S.L. Kelly paper | |
| 11 | Increase Hours at Recreation Center | M. Miller | 3/3/2026 | Yes | Budget | Andrea has developed a plan to extend hours for FY27 that will be discussed as an option for City Council to consider during the budget process. | |

*Updated: 4-16-2026*

## Completed Items

| | Topic | Requested By | Date | Council Consensus | Council Meeting Date Targeted | Notes |
|---|---|---|---|---|---|---|
| 1 | Defer Vegetation Buffer Requirement | M. Miller | 11/12/2024 | Yes | Complete | Approved Resolution 24-074 on 12/2/2024, granting deferment of landscape buffer requirements for commercial and institutional property through 12/31/26 with application and stipulation agreement. Directed staff to review Landscaping Code requirements during the 24-month deferment period . |
| 2 | Vacation Rentals - opposed to lessening 28 day minimum for properties outside of the resort housing district. | H. Smith | 12/3/2024 | | Complete | No need for discussion. Council agrees no changes are needed. |
| 3 | Review previous City Council action to reduce Building Fee for new construction by 30%. | M. Miller | 12/3/2024 | | Complete | Completed with approval of Ordinance 25-002 on 3/18/2025, amending Building Permit Fees and Resolution 25-003 approving a 30% reduction of Development Permit fees for new development; relocation of existing structures for residential or commercial use, and redevelopment of existing parcels development permit fees until revised. |
| 4 | Amendments to Distressed Properties | M. Miller | 12/3/2024 | | Complete | Approved Ordinance 25-004 on 4/1/2025, amending Chapter 126, Division 17 - Distressed Properties by adding overgrown and dead vegetation to Section 126-1314 Maintenance and Security Standards. |
| 5 | Joint Council / PC Meeting | H. Smith | 1/14/2025 | | Complete | Joint City Council/Planning Commission meeting was held on 2/26/2025. Additional joint meetings may be scheduled as directed by City Council. |
| 6 | Discussion on developmental grade and fill | J. Henshaw | 1/14/2025 | | Complete | Approved Ordinance 25-007, Placement of Fill on 5/6/2025. |
| 7 | Review of Ranger Program | H. Smith | 2/4/2025 | | Complete | Completed at 5/6/2025 City Council meeting. |
| 8 | Ombudsman discussion. | M. Miller | 4/1/2025 | | Complete | At the 5/6/2025 City Council meeting, City Council approved the City Manager to contract for ombudsman services as needed. |
| 9 | Seagull Estates Presentation | M. Miller | 12/3/2024 | | Withdrawn | Presentation City Engineer provided to Seagull Estates |

| | Topic | Requested By | Date | Council Consensus | Council Meeting Date Targeted | Notes |
|---|---|---|---|---|---|---|
| 10 | Committee Applicants - Residency | M. Miller | 12/3/2024 | | Withdrawn | To be discussed when Committee review is completed by admin. |
| 11 | Sewage Fees - Usage fee -vs- flat fee for residential properties. | J. Henshaw | 1/14/2025 | | Complete | Discussed during FY26 budget briefings. |
| 12 | Cost of pumps at weirs. | L. DeBruce | 4/1/2025 | Yes | Complete | Discussed during FY26 budget workshop and stormwater master plan update adoption meeting. Feasibility study funded in FY26 budget. |
| 13 | Wildlife Sign - Vehicular Speed | L. DeBruce | 10/21/2025 | Yes | Complete | Presentation on wildlife mortality rates delivered 11/4/2025. Sign options to be presented at future City Council meeting. |
| 14 | Proposal to study two lanes of travel on causeway departing island | M. Miller | 11/12/2024 | Yes | Complete | Report presented to the City Council on 12/16/2025. |
| 15 | Speed limit signs on Rabbit Road and traffic calming. | L. DeBruce | 11/12/2024 | Yes | Complete | Council prefers comprehensive island wide approach on signs. And increase awareness of peds and bikes - including SanCap Rd.(DeBruce on 1/14/25). Consultant speed study proposal approved at the 6/3/2025 City Council meeting. |
| 16 | Sanibel Pier | J. Henshaw | 11/4/2025 | Yes | Complete | Include discussion on temporary repairs & procurement, permanent repairs, FEMA funding, park impact fee funding. Working with residents on repair options and fundraising agreement. |
| 17 | Short term rental. BTR Data and enforcement. | H. Smith | 4/1/2025 | Yes | Complete | |
| 18 | E-Bike Use on SUP | R. Johnson | 11/4/2025 | Yes | Complete | Discussion on class 1, 2, & 3 e-bikes. |
| 19 | Prohibit Smoking on Beach | R. Johnson | 12/16/2025 | Yes | Complete | Draft Ordinance similar to Lee County Ordinance that prohibits smoking on beaches. |
| 20 | Expand reuse transmission for irrigation | L. DeBruce | 5/6/2025 | | Withdrawn | Alternative to irrigating with potable water. |
| 21 | Review Code to provide relief for long-standing non-conforming development. | H. Smith | 11/12/2024 | Yes | Withdrawn | Example - circular driveway with two drive aprons. |
| 22 | Remote Work | H. Smith | 4/1/2025 | | Withdrawn | |
| 23 | Vegetation - Chapter 122 | L. DeBruce | 5/6/2025 | Yes | 4/21/2026 | Staff is developing amendments to Chapter 122 Vegetation, per Resolution 24-074. Review by Planning Commission then to City Council for consideration. Discussion and 1st Reading 4/21/2026 |

# HORIZON – UPCOMING IMPORTANT DATES

| | | | | |
|---|---|---|---|---|
| Tuesday | May 5, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Friday | May 16, 2026 | Armed Forces Day | | |
| Monday | May 25, 2026 | City Hall Closed to Observe Memorial Day | | |
| Tuesday | June 2, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Saturday | June 6, 2026 | D-Day | | |
| Sunday | June 14, 2026 | Flag Day | | |
| Tuesday | June 16, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Tuesday | June 16, 2026 | City Council<br>Budget Workshop | MacKenzie Hall | 3:00 p.m. |
| Friday | July 3, 2026 | City Hall Closed to Observe Independence Day | | |
| Saturday | July 4, 2026 | Independence Day | | |
| Tuesday | July 21, 2026 | City Council<br>Set Proposed Millage Rate | MacKenzie Hall | 9:00 a.m. |
| Tuesday | August 18, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Tuesday | August 18, 2026 | City Council<br>Budget Workshop | MacKenzie Hall | 5:30 p.m. |
| Wednesday | September 2, 2026 | Victory Over Japan Day | | |
| Monday | September 7, 2026 | City Hall Closed to Observe Labor Day | | |
| Friday @ Sunset to<br>Sunday @ Nightfall | September 11 to<br>September 13, 2026 | Rosh Hashanah | | |
| Monday | September 14, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Monday | September 14, 2026 | City Council<br>First Budget Hearing | MacKenzie Hall | 5:30 p.m. |
| Sunday @ Sunset to<br>Monday @ Nightfall | September 20 to<br>September 21, 2026 | Yom Kippur | | |
| Monday | September 28, 2026 | City Council<br>Final Budget Hearing | Mackenzie Hall | 5:30 p.m. |
| Tuesday | October 6, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Monday | October 12, 2026 | City Hall Closed to Observe Columbus Day | | |
| Tuesday | October 20, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Tuesday | November 3, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |

| | | | | |
|---|---|---|---|---|
| Wednesday | November 11, 2026 | City Hall Closed to Observe Veterans Day | | |
| Thursday & Friday | November 26 & 27, 2026 | City Hall Closed to Observe Thanksgiving | | |
| Tuesday | December 1, 2026 | City Council | MacKenzie Hall | 9:00 a.m. |
| Friday @ Sunset to Saturday @ Nightfall | December 4 to December 12, 2026 | Chanukah | | |
| Monday | December 7, 2026 | Pearl Harbor Day | | |
| Friday | December 25, 2026 | Christmas Day | | |
| Friday | December 25, 2026 | City Hall Closed to Observe Christmas | | |
| Friday | January 1, 2027 | New Year's Day | | |
| Friday | January 1, 2027 | City Hall Closed to Observe New Year's | | |