



Interoffice Memorandum

Received on April 9, 2026
Deadline: May 12, 2026
Publish: May 17, 2026

April 8, 2026

To: Jennifer Lara-Klimetz, Manager
Comptroller Clerk's Office

Through: Cheryl Gillespie, Agenda Development Supervisor
Agenda Development

From: Elizabeth R. Johnson, CEP, Acting Manager *Elizabeth R. Johnson*
Environmental Protection Division
(407) 836-1511

**Staff Person: Tim Hull, PWS, Environmental Programs Administrator
Environmental Protection Division
(407) 836-1428**

Subject: Request for Public Hearing on June 2, 2026, at 2:00 p.m., for an After-the-Fact Shoreline Alteration/Dredge and Fill Permit Modification (SADF-23-09-022-MOD) to modify a previously issued permit to include an additional section of new vinyl seawall and modify the location for part of the new vinyl seawall along the shoreline of a canal leading to Lake Butler (aka Sandy Shores Canal) at 12023 Sandy Shores Drive, Windermere, Florida 34786, Parcel ID No. 24-23-27-7808-00-083; District 1

=====

Applicants: Eric Powell and Rhonda L. Powell

Type of Hearing: After-the-Fact Shoreline Alteration/Dredge and Fill Permit Modification

Hearing required by Florida Statute # or Code: Chapter 33, Article IV, Windermere Water and Navigational Control District

Advertising requirements: Publish once in a newspaper of general circulation in Orange County at least (7) seven days prior to public hearing.

Advertising timeframes: At least (7) seven days prior to public hearing.

Abutters to be notified: The applicant and the property owners within 500 feet of the project area will be notified at least (7) seven days prior to

April 8, 2026

Request for Public Hearing – After-the-Fact Shoreline Alteration/Dredge and Fill Permit Modification for Eric Powell and Rhonda L. Powell (SADF-23-09-022-MOD)

public hearing by the Environmental Protection Division (EPD).

Estimated time required
For public hearing: 2 minutes

Lake Advisory Board
To be notified: Ijaz Ahmed (Chairman), Windermere Water & Navigational Control District,
ijazahmed736@gmail.com

Municipality or other
Public Agency to be notified: Florida Department of Environmental Protection,
DEP_CD@FloridaDEP.gov

Hearing Controversial: No

District #: 1

Materials being submitted as backup for public hearing request:

1. Location Map
2. Site Plan
3. Site Photos
4. Survey
5. SADF-23-09-022 Permit

Special Instructions to Clerk:

1. Once the Board of County Commissioners makes a decision on the Shoreline Alteration/Dredge and Fill Permit Application, please submit the decision letter to Liz Johnson with EPD. EPD will issue the decision to the applicant.

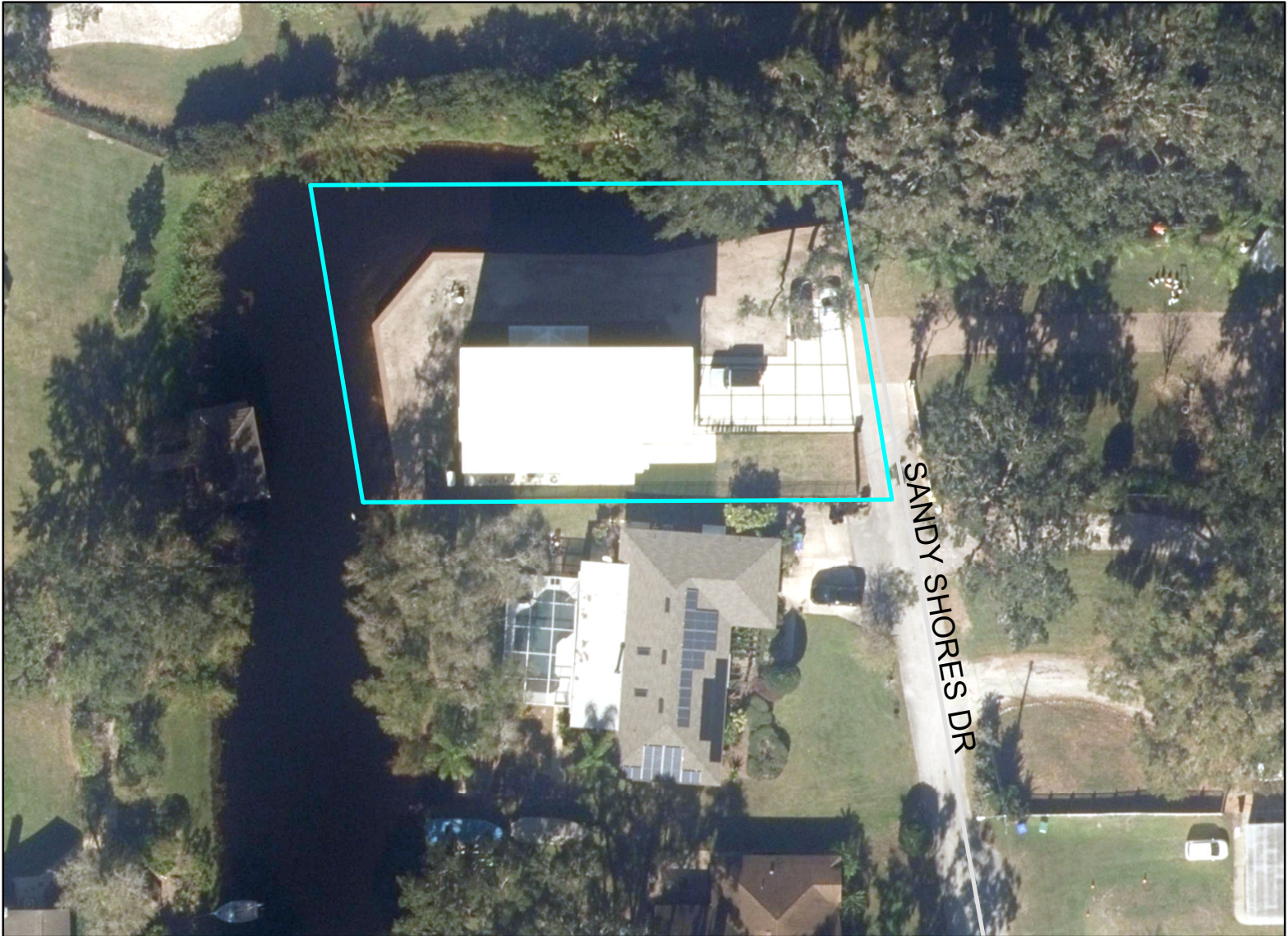
Advertising Language:

1. Applicants, Eric Powell and Rhonda L. Powell, are requesting an After-the-Fact Shoreline Alteration/Dredge and Fill Permit Modification (SADF-23-09-022-MOD) to modify a previously issued permit to include an additional section of new vinyl seawall and modify the location for part of the new vinyl seawall along the shoreline of a canal leading to Lake Butler at 12023 Sandy Shores Drive, Windermere, FL 34786, pursuant to Chapter 33, Article IV, Windermere Water and Navigational Control District; Parcel ID No. 24-23-27-7808-00-083; District 1 (property legal description on file at EPD).

CD/KRR/TMH/ERJ: ae

Attachments

After-the-Fact Shoreline Alteration/ Dredge and Fill Permit Modification Request



**After-the-Fact Shoreline Alteration /Dredge
and Fill Permit Modification Request
SADF-23-09-022-MOD
District #1**

**Applicants: Eric Powell
Rhonda L. Powell**

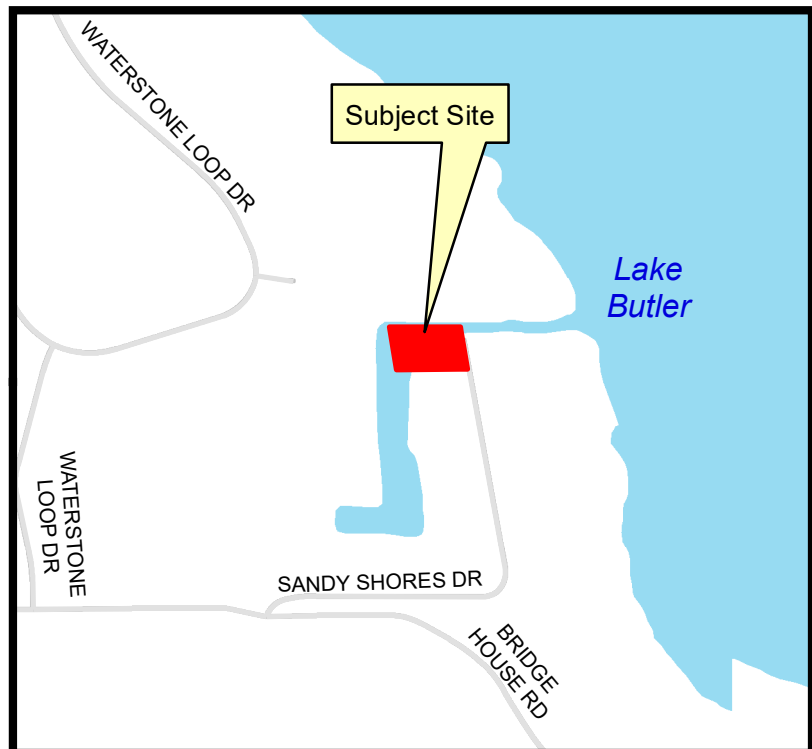
Address: 12023 Sandy Shores Drive

Parcel ID: 24-23-27-7808-00-083

Project Site



Property Location



received
2/10/2026

-Site Benchmark Information-

#1
Fnd. Magnetic Nail in Asphalt Roadway.
Elevation: 108.12

#2
Fnd. Nail & Disk "LB 7623", on Asphalt Roadway.
Elevation: 103.35

-Benchmark Information-

Orange County Datum Elevation: 107.294'

Orange County Benchmark, Designation S1291044
Square Cut in 1 foot Flat Concrete Curb, at
Approximately PC of Curve Pad Turn Out, North Side of
Sandy Shore Drive at Winter Garden Vineland Road.
(Elevations are based upon NAVD 88 Datum)

Boundary Survey

Legal Description:

BEGINNING AT THE NORTHEAST CORNER OF LOT 8 OF SANDY SHORES, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "S", PAGE 57 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, RUN WEST ALONG THE NORTH LINE OF SAID LOT 8 A DISTANCE OF 150.14 FEET; THENCE SOUTH 9 DEGREES 5 MINUTES EAST, PARALLEL TO THE EAST LINE OF LOT 8, A DISTANCE OF 91.14 FEET; THENCE EAST 150.14 FEET TO THE SOUTHWEST CORNER OF LOT 6 OF SAID SANDY SHORES; THENCE NORTH 9 DEGREES 5 MINUTES WEST ALONG THE EAST LINE OF LOT 8, 91.14 FEET TO THE POINT OF BEGINNING.

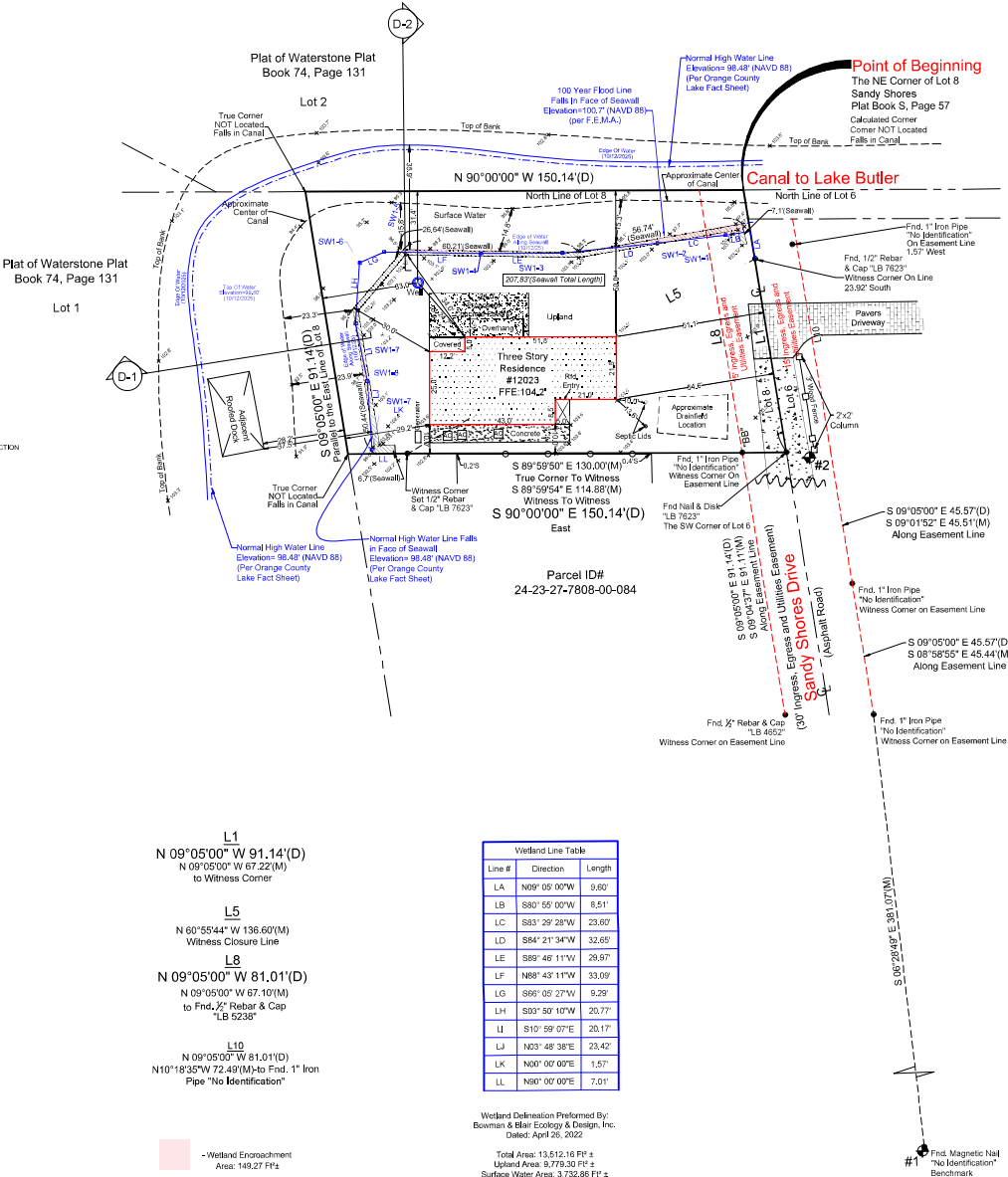
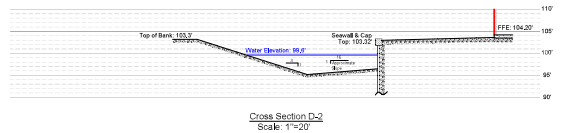
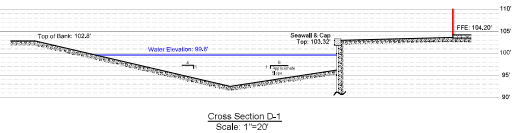
Flood Disclaimer:

By performing a search with the local governing municipality or www.fema.gov, the property appears to be located in zone X.AE. This Property was found in Orange County, community number 120179, dated 9/25/2009.

CERTIFIED TO:

RYKA BUILDERS, ERIC POWELL, RHONDA POWELL

SITE ADDRESS: 12023 SANDY SHORES DRIVE, WINDERMERE, FL 34786



-Legend-

- BOLLARD
- Callabest
C - Conduit
CB - Concrete Block
CM - Concrete Monument
Conc. - Concrete
D - Description
DE - Drainage Easement
Elev. - Elevation
F.E.M.A. - Federal Emergency Management Agency
FFE - Finished Floor Elevation
Fnd. - Found
FP - Fire Hydrant
L - Length (Arc)
M - Manhole
N&D - Nail & Disk
N.R. - Non-Record
O.R.B. - Official Records Book
P - Pipe
P.A. - Plat Book
W - Wood Fence
PC - Point of Curvature
Pg. - Page
PI - Point of Intersection
P.O.L. - Point on Line
PP - Power Pole
PRM - Permanent Reference Monument
PT - Point of Tangency
R - Radius
Rad. - Radius
R&C - Rebar & Cap
R.O. - Rebar & Cap
Rec. - Recovered
RSL - Recovered
Set - Set 1/2" Rebar & Cap "LB 7623"
SP - Screened Patch
Typ. - Typical
UL - Utility Easement
D - Delta (Central Angle)
C - Chain Link Fence
B - Back Rise Inverter
C - Concrete Block
C - Cable Rider
C - Cleanout
C - Curb Inlet
C - Curb Post
C - DOT INLET
C - DUMPSTER PAD
C - ELECTRIC BOX
C - ELECTRIC METER
C - Air Release Valve

Wetland Line Table
Line # Direction Length
LA N09°05'00"W 9.60'
LB S80°55'00"W 8.51'
LC S83°29'28"W 23.60'
LD S84°21'34"W 32.65'
LE S89°46'11"W 29.97'
LF N88°43'11"W 33.09'
LG S86°05'27"W 9.29'
LH S03°50'10"W 20.77'
LI S10°59'07"E 20.17'
LJ N03°48'38"E 23.42'
LK N00°00'00"E 1.57'
LL N80°00'00"E 7.01'

Wetland Delineation Performed By:
Bowman & Blair Ecology & Design, Inc.
Dated: April 26, 2022
Total Area: 13,512.16 SF ±
Upland Area: 3,776.30 SF ±
Surface Water Area: 3,732.86 FF ±

- Revision: Added Cross Section - 02/09/26
Revision: Revised Survey - 02/04/25
Revision: Revised Survey - 07/30/25
Revision: Revised Survey Add Adjacent Top of Bank & NHWL - 07/12/25
Revision: Revised Survey - 08/04/25
Revision: Added Proposed Pavers & Dock - 06/02/25
Revision: Dock As-Built Elevations - 05/07/25 - BP
Revision: Dock As-Built - 03/27/25 - JWW
Revision: As-Built Survey - 01/08/25 - JWW
Revision: Updated Survey - 05/30/24 - JTP
Revision: Updated Survey - 05/22/24 - TKC
Revision: Final Survey - 04/17/23 - ADS
Revision: Added Wetland Delineation - 05/13/22 - JWW
Revision: Foundation Survey - 05/07/21 - JWW
Revision: Property Line Linetype - 12/21/20 - JRR

Field Date: 05/06/21 Date Completed: 05/07/21
Drawn By: JWW File Number: IS-0255
Ireland & Associates Surveying, Inc.
800 Currency Circle, Suite 1020
Lake Mary, FL 32746
www.irelandsurveying.com
Office-407.878.3366 Fax-407.320.8165

North arrow pointing up, graphic scale 1"=30', and a signature block for Patrick K. Ireland, dated 2026.02.10.

Digitally signed by Patrick K Ireland
Date: 2026.02.10 09:43:07 -05'00'







Environmental Protection Division

SHORELINE ALTERATION/DREDGE & FILL PERMIT

Permit No: SADF-23-09-022

Date Issued: April 25, 2024

Date Expires: April 25, 2026

Associated Incident No.: 23-625669

Associated Permit No.: BD-23-09-122

A Permit Authorizing:

The construction of a new vinyl seawall and dredging adjacent to and within the shoreline of the Lake Butler/Sandy Shores Canal, as depicted on the construction plans signed and sealed by Darcy Unroe, P.E. and received by the Environmental Protection Division (EPD) on February 2, 2024, and February 19, 2024. A 0.084-acre area of the canal bank at the corner of the property will be dredged to construct a boat dock, previously permitted by EPD Dock Construction Permit No. BD-23-09-122. Dredging will be conducted in accordance with the dredging plan narrative provided by Sheila Cichra and received by EPD on November 27, 2023. Water quality sampling shall be completed in accordance with the 'Water Quality Monitoring Program' provided by Bio-Tech Consulting, Inc., received by EPD on February 2, 2024.

EPD staff has evaluated the proposed activity and has made a finding that the request is consistent with Orange County Code, Chapter 33, Article IV, Section 33-129, and is subject to the permit conditions provided on the following pages:

Activity Location:

12023 Sandy Shores Drive, Windermere, FL 34786

Parcel ID: 24-23-27-7808-00-083

Orange County Commission District: 1

Permittee(s) / Authorized Entity:

Rhonda and Eric Powell

c/o Sheila Cichra

Streamline Permitting, Inc.

E-mail: sheilacichra@gmail.com

Orange County Environmental Protection Division
3165 McCrory Place, Suite 200
Orlando, Florida 32803
407-836-1400/ Fax: 407-836-1499
www.OCEPD.org

The Board of County Commissioners (BCC) approved this permit on April 9, 2024, subject to the following conditions:

Specific Conditions

1. This permit shall become final and effective upon expiration of the 30-calendar day period following the date of rendition of the Board's decision approving the permit unless a petition for writ of certiorari or other legal challenge has been filed within this timeframe. Any timely filed petition or other challenge shall stay the effective date of this permit until the petition or other challenge is resolved in favor of the Board's decision.
2. The operational phase of this permit is effective upon the completion of construction and continues in perpetuity.
3. Construction activities shall be completed in accordance with the engineered plans signed and sealed by Darcy Unroe, P.E., and received by EPD on February 2, 2024, and February 19, 2024. The permitted activity must commence within six months and be completed within two years from the date of issuance of the permit. If the project has not commenced within six months or been completed within two years or extended, this permit shall be void and a new permit application with fee will be required.
4. If the permitted activity has not been completed within two years, the Environmental Protection Officer may grant a permit extension of up to one additional year. Requests for permit extension must be submitted to EPD prior to the expiration date. No changes to the approved plans will be authorized with a permit extension.
5. This permit does not authorize any dredging or filling except that which is necessary for the installation of the seawall, as depicted on the approved plans.
6. Dredged material shall be handled and disposed of in accordance with the dredging plan narrative and site plan provided by Sheila Cichra and received by EPD on November 27, 2023, and February 19, 2024, respectively.
7. Water quality sampling shall be completed in accordance with the 'Water Quality Monitoring Program' provided by Bio-Tech Consulting, Inc., received by EPD on February 2, 2024. The sampling stations should be located per 'Figure 1' of the 'Surface Water Quality Monitoring Program.'
8. Turbidity and sediment shall be controlled to prevent off-site, unpermitted impacts and violations of water quality standards pursuant to Rules 62-302.500, 62-302.530(70), and 62-4.242, Florida Administrative Code (F.A.C.). Best Management Practices (BMPs), as specified in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (2013, or most current version), shall be installed, and maintained at all locations where there is the possibility of transferring sediment, turbidity, or other pollutants into wetlands and/or surface waters due to the permitted activities. BMPs are performance based; if selected BMPs are ineffective or if site-specific conditions require additional measures, then the permittees shall implement additional or alternative measures as necessary to prevent adverse impacts to wetlands and/or surface waters. Turbidity discharging from a site must not exceed 0 NTU over background for those surface waters and tributaries designated as Outstanding Florida Waters (OFWs), such as Lake Butler. If turbidity samples collected at the background sampling station exceed 0 NTU, dredging shall be stopped and EPD notified immediately.

9. Turbidity and erosion control measures shall remain in place until EPD has verified that the post-activity water quality monitoring results indicate the project area meets the baseline monitoring results.
10. Discharge of groundwater from dewatering operations requires approval from the Florida Department of Environmental Protection (FDEP) and the applicable Water Management District. The operator/contractor shall obtain an FDEP Generic Permit for the Discharge of Ground Water from Dewatering Operations pursuant to the requirements of Chapters 62-621.300(2)(a) and 62-620, F.A.C., and Chapter 403 FS. Discharges directed to the County's MS4 require an Orange County Right-of-Way Utilization Permit for Dewatering prior to the start of any discharges.

General Conditions

11. A copy of this permit, along with EPD stamped and approved drawings, should be taken to the Orange County Zoning Division (OCZD) at 201 South Rosalind Avenue for review prior to applying for a Building Permit. For further information, please contact the OCZD at (407) 836-5525.
12. After approval by OCZD, the certified site plans will need to be reviewed by the Orange County Building Safety Division (OCBSD) to obtain a Building Permit. For further information, please contact the OCBSD at (407) 836-5550.
13. Subject to the terms and conditions herein, the permittees are hereby authorized to perform or cause to be performed, the impacts shown on the application and approved drawings, plans, and other documents attached hereto or on file with EPD. The permittees bind themselves and any successors to comply with the provisions and conditions of this permit. If EPD determines at any time that activities are not in accordance with the conditions of the permit, work shall cease, and the permit may be revoked immediately by the Environmental Protection Officer. Notice of the revocation shall be provided to the permit holder promptly thereafter.
14. Issuance of this permit does not warrant in any way that the permittees have riparian or property rights to construct any structure permitted herein and any such construction is done at the sole risk of the permittees. If any part of the structure permitted herein is determined by a final adjudication issued by a court of competent jurisdiction to encroach on or interfere with adjacent property owners' riparian or other property rights, the permittees agree to either obtain written consent or to remove the offending structure or encroachment within 60 days from the date of the adjudication. Failure to comply shall constitute a material breach of this permit and shall be grounds for its immediate revocation.
15. This permit does not release the permittees from complying with all other federal, state, and local laws, ordinances, rules, and regulations. Specifically, this permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittees or create in the permittees any property right, or any interest in real property, nor does it authorize any entrance upon or activities upon property which is not owned or controlled by the permittees or convey any rights or privileges other than those specified in the permit and Chapter 33, Article IV of the Orange County Code. If these permit conditions conflict with those of any other regulatory agency, the permittees shall comply with the most stringent conditions. The permittees shall immediately notify EPD of any conflict between the conditions of this permit and any other permit or approval.
16. The permittees are hereby advised that Section 253.77 FS, states that a person may not commence any excavation, construction, or other activity involving the use of sovereignty or other lands of the state, the title to which is vested in the Board of Trustees of the Internal

Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittees are responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

17. Should any other regulatory agency require changes to the property or permitted activities, the permittees shall provide written notification to EPD of the change prior to implementation so that a determination can be made whether a permit modification is required.
18. EPD shall have final construction plan approval to ensure that no modification has been made during the construction plan process.
19. The permittees shall immediately notify EPD in writing of any previously submitted information that is later discovered to be inaccurate. EPD may revoke the permit upon discovery of information that may cause pollution to water bodies, cause an adverse impact on the riparian rights of other waterfront property owners, or impede the traditional use and enjoyment of the waterbody by the public.
20. EPD staff, with proper identification, shall have permission to enter the site at any reasonable time to ensure conformity with the plans and specifications approved by the permit.
21. The permittees shall notify EPD, in writing, within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. The permittees shall remain liable for any corrective actions that may be required because of any permit violations until the permit is legally transferred.
22. The permittees shall hold and save the County harmless from all damages, claims or liabilities, which may arise by reason of the activities authorized by the permit.
23. All costs, including attorney's fees, incurred by the County in enforcing the terms and conditions of this permit shall be required to be paid by the permittees.
24. The permittees agree that any dispute arising from matters relating to this permit shall be governed by the laws of Florida and initiated only in Orange County.
25. Pursuant to Section 125.022 FS, issuance of this permit by the County does not in any way create any rights on the part of the applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the County for issuance of the permit if the applicant fails to obtain the 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.
26. Pursuant to Section 125.022 FS, the applicant shall obtain all other applicable state or federal permits before commencement of construction.

If you should have any questions concerning this permit, please contact Caroline Dragiev at 407-429-9887 or Caroline.Dragiev@ocfl.net.

Project Manager:



Caroline Dragiev, Senior Environmental Specialist

Authorized for the Orange County Environmental Protection Division by:

 for

Renée H. Parker, LEP, Environmental Protection Officer

CD/~~KCK~~/TMH/ERJ: gfdjr

Enclosure(s): Construction Notice
Board of County Commissioners Decision Letter
Approved Site Plans
Approved Dredging Plan
Approved Water Quality Monitoring Plan

c: Eric and Rhonda Powell, RykaOffice@gmail.com
Lisa Prather, South Florida Water Management District, lprather@sfwmd.gov
Miola Aganovic, OCEPD, Miola.Aganovic@ocfl.net
Jonathan Dressler, OCEPD, Jonathan.Dressler@ocfl.net



Construction Notice

- BEGINNING OF CONSTRUCTION
- COMPLETION OF CONSTRUCTION

Mail to: Orange County Environmental Protection Division
3165 McCrory Place, Suite 200
Orlando, FL 32803
Or Fax to: 407-836-1499
Or E-Mail to: WetlandPermitting@ocfl.net

Permit Number and Name: SADF-23-09-022, 12023 Sandy Shores Dr - Powell

Permit Type: Shoreline Alteration/Dredge and Fill

Approximate Starting Date: _____

Approximate Completion Date: _____

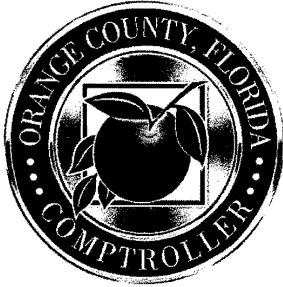
Remarks or any additional information:

I certify I am the permittee / Authorized Entity of the above permit issued by the Orange County Environmental Protection Division and in accordance with the terms of such permit will begin or have completed the actual construction of the work described in the permit.

Signature of Permittee: _____

Printed name of Permittee: _____

Date: _____



Orange County Government

Orange County
Administration Center
201 S Rosalind Ave.
Orlando, FL 32802-1393

Decision Letter

Board of County Commissioners

Tuesday, April 9, 2024

2:00 PM

County Commission Chambers

24-424 Case # SADF-23-09-022

Rhonda and Eric Powell, Lake Butler (aka Sandy Shores Canal), permit;
District 1

Consideration: Request for a Shoreline Alteration/Dredge and Fill Permit SADF # 23-09-022 to authorize the construction of a new vinyl seawall along the shoreline of a canal leading to Lake Butler (aka Sandy Shores Canal), pursuant to Orange County Code, Chapter 33, Article IV, Windermere Water and Navigational Control District

Location: District 1; on property located adjacent to Lake Butler (aka Sandy Shores Canal), located at 12023 Sandy Shores Drive, Windermere, Florida 34786; Orange County, Florida (legal property description on file in Environmental Protection Division)

A motion was made by Commissioner Wilson, seconded by Commissioner Moore, to accept the findings and recommendation of the Environmental Protection Division; and further, approve the Shoreline Alteration/Dredge and Fill Permit (SADF-23-09-022) subject to the twenty-six (26) conditions of approval listed in the Staff Report dated March 8, 2024. The motion carried by the following vote:

Aye: 7 - Mayor Demings, Commissioner Wilson, Commissioner Moore, Commissioner Uribe, Commissioner Gomez Cordero, Commissioner Bonilla, and Commissioner Scott

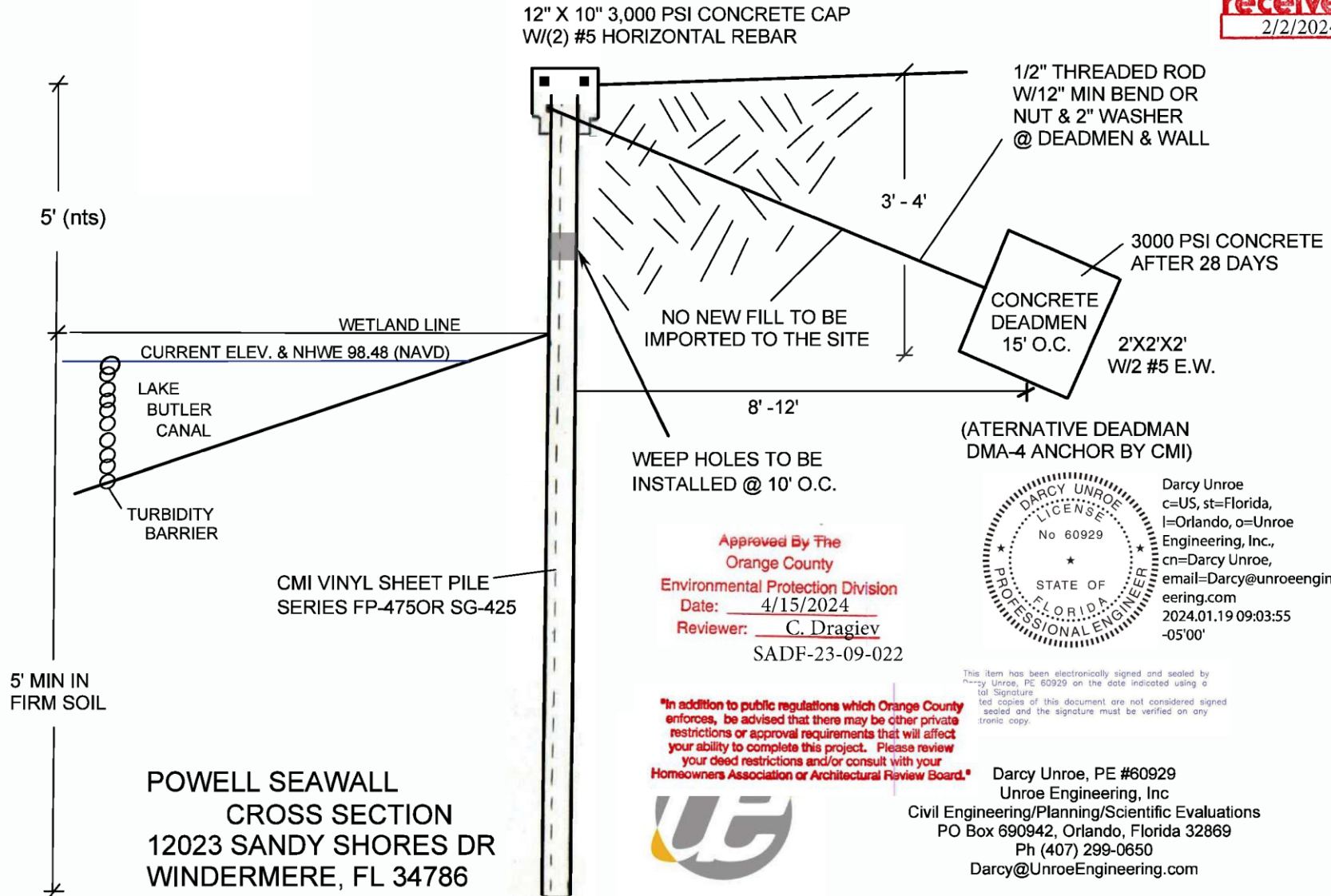
**THE FOREGOING DECISION HAS BEEN FILED
WITH ME THIS 18TH DAY OF APRIL 2024.**

J. Knight
for _____
DEPUTY CLERK
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA

Note: This document constitutes the final decision of the Board of County Commissioners on this matter. If, upon the Board's subsequent review and approval of its minutes, an error affecting this final decision is discovered, a corrected final decision will be prepared, filed, and distributed.
th

180' VINYL SEAWALL W/(2) 10' RETURNS INSTALLED AT THE WETLAND LINE

received
2/2/2024



received
11/27/2023

**DREDGING NARRATIVE
SADF-23-09-022**

THE AREA TO BE DREDGED WILL BE COMPLETELY ENCLOSED BY A VINYL SEAWALL ON ALL FOUR SIDES PRIOR TO ANY EXCAVATING BEING DONE. BETWEEN THE COFFERDAM, THE SEAWALL AND THE DOUBLE TURBIDITY BARRIER, THERE WON'T BE ANY WATER QUALITY ISSUES. THIS SAME CONTRACTOR WAS FINED \$4,000 A FEW MONTHS AGO FOR WATER QUALITY ISSUES. HE'S GOING TO BE SUPER DILIGENT!

"DREDGING PLAN"

- 1) INSTALL VINYL SEAWALL AROUND BOAT SLIP.**
- 2) INSTALL COFFERDAM AROUND DREDGING SITE.**
- 3) REMOVE DIRT FROM INSIDE BOAT SLIP AND COFFERDAM.**
- 4) CONSTANTLY VISUALLY MONITOR TO MAKE SURE THAT THE COFFERDAM ISN'T LEAKING.**

3. The narrative response to the initial RAI noted that dredged material will be placed in a lined container in uplands and disposed of off-site to ensure that the dredged material and spoiled water will not erode or flow back into the canal. Please add a note to this effect on the site plan.

DONE.

--

Sheila Cichra
Streamline Permitting, Inc.

Approved By The
Orange County
Environmental Protection Division
Date: 4/15/2024
Reviewer: C. Dragiev
SADF-23-09-022

In addition to public regulations which Orange County enforces, be advised that there may be other private restrictions or approval requirements that will affect your ability to complete this project. Please review your deed restrictions and/or consult with your Homeowners Association or Architectural Review Board.



received
2/2/24

Approved By The
Orange County
Environmental Protection Division
Date: 4/15/2024
Reviewer: C. Dragiev
SADF-23-09-022

In addition to public regulations which Orange County enforces, be advised that there may be other private restrictions or approval requirements that will affect your ability to complete this project. Please review your deed restrictions and/or consult with your Homeowners Association or Architectural Review Board.

February 2, 2024

Caroline Dragiev
Environmental Protection Division
3165 McCrory Place, Suite 200
Orlando, Florida 32803

Proj: 12023 Sandy Shores Drive – Orange County, Florida
SADF-23-09-022
(BTC File #1215-
Re: Request for Additional Information
Surface Water Quality Monitoring Program

Dear Ms. Dragiev:

BTC proposes the following Surface Water Quality Monitoring Program for the above referenced project:

WATER QUALITY MONITORING PROGRAM

As part of the dredge work, the applicant will implement a program to monitor the background water quality conditions, as well as work area water quality conditions during the dredging activities within the canal. The data collected during this monitoring program will be utilized to compare subsequent conditions to background conditions, as well as calculated State water quality standards, to determine the effects, if any, of the maintenance dredging within the canal. This monitoring plan is proposed to commence upon acceptance from the Orange County Environmental Protection Division (OCEPD).

Orlando: Main Office
3025 East South Street
Orlando, FL 32803

Jacksonville Office
11235 St Johns Industrial Pkwy N
Suite 2
Jacksonville, FL 32246

Tampa Office
6011 Benjamin Road
Suite 101-B
Tampa, FL 33634

Vero Beach Office
4445 North A1A
Suite 221
Vero Beach, FL 32963

Key West Office
1107 Key Plaza
Suite 259
Key West, FL 33040

Land & Aquatic Management
3825 Rouse Road
Orlando, FL 32817

407.894.5969
877.894.5969
407.894.5970 fax

info@bio-techconsulting.com

www.bio-techconsulting.com

received
2/2/2024

Approved By The
Orange County
Environmental Protection Division
Date: 4/15/2024
Reviewer: C. Dragiev
SADF-23-09-022

Collection of surface water samples and data associated with the monitoring program will be collected at least 30 days prior to conducting the dredge; at least once a day during the dredge; and at least twice during the 60 days following completion of the dredge project, or until water quality parameters post-dredging meets the parameters of pre-dredging. The dredge work is expected to be completed within 1 week. If the collected data are indicative of atypical conditions or violations of water quality standards or criteria, OCEPD will be notified immediately. Any potential activities associated with corrective actions will be conducted in accordance and coordination with the OCEPD.

The following sections provide particular information associated with the proposed collection and analysis of water quality samples and data for the Surface Water Quality Monitoring Program:

WATER QUALITY METHODS AND MATERIALS

The water quality plan will consist of field data and surface water sample collection, as well as analysis of samples by an approved laboratory. The data and samples will be collected from three (3) water quality monitoring stations to be established on and in the vicinity of the site (Figure 1) by the BTC project biologist. Collection of surface water samples and data associated with the monitoring program will be collected at least 30 days prior to conducting the dredge; at least once a day during the dredge, and at least twice during the 60 days following completion of the dredge project, or until water quality parameters post-dredging meets the parameters of pre-dredging. During the dredging activities, samples will be taken within the work area, outside the work area, and a sample downstream. If the sample outside the work area rises too high above the background, the dredging will be stopped and corrective actions will be coordinated with OCEPD.

PROPOSED SAMPLING STATIONS

The data and samples gathered as part of this plan will be collected from the following proposed water quality monitoring stations:

<u>Station</u>	<u>Location</u>
Station #1	Within Work Area
Station #2	Outside Work Area
Station #3	Background

The locations of these stations are depicted on the attached exhibit. We believe these locations will be sufficient to assess the project's contributions to the water quality of the canal and to downstream habitats.

In addition to public regulations which Orange County enforces, be advised that there may be other private restrictions or approval requirements that will affect your ability to complete this project. Please review your deed restrictions and/or consult with your Homeowners Association or Architectural Review Board.





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WATER QUALITY FIELD MEASUREMENTS

Field parameters to be obtained during each monitoring event will include the following:

<i>Time</i>	<i>Water Temperature</i>
<i>Dissolved Oxygen</i>	<i>Specific Conductivity</i>
<i>Turbidity (NTU)</i>	<i>pH</i>

Field instruments to be utilized will be calibrated prior to each monitoring event. Upon arrival at the sampling destination, instruments will be calibrated prior to the collection of samples. During both calibration events standard EPA methods and manufacturer's instructions will be followed.

In situ measurements of dissolved oxygen, temperature, specific conductance, and pH will utilize a calibrated Hanna Multi-Parameter meter. Results of the in-field parameter monitoring events will be compiled and outlined in a letter report submitted to the OCEPD within 1 week of the sampling. A report of monitoring results will be prepared and submitted to the OCEPD following the 30 days prior to the dredge sampling event, weekly during the dredge activities, and twice after the dredging events. The letter reports will include methods, field data, laboratory data, and comparisons of gathered data to baseline/background information, as well as State water quality standards.

WATER QUALITY SAMPLING PARAMETERS

In order to further assess the quality of the designated surface waters, the following sampling parameters will be monitored:

General Chemistry Parameters:
Total Nitrogen (mg/L)
Total Phosphorus (mg/L)
Total Suspended Solids (mg/L)
Turbidity (NTU)

Field activities conducted as part of this program will be in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOP) listed in FT1000 (rev 1/2017). Laboratory analysis will be conducted by a NELAC certified laboratory (TestAmerica – DOH Certification #E83012 Orlando, DOH Certification #E84282 Tampa and DOH Certification #E84282 Nashville). Sample containers utilized in laboratory analysis will be obtained from the laboratory to be utilized prior to each sampling event. The containers will be labeled to indicate the type of analysis (nutrients, metals, etc...) and the type of preservative (if appropriate) for each

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container. Quality assurance objectives for laboratory analysis of listed parameters will be as per methods listed within Section 5 of the analyzing laboratory's QAP (available upon request).

The BTC project biologist will be responsible for sample custody until sample containers are dropped off at the analyzing laboratory. The project biologist will physically collect samples and operate field equipment. The project biologist will be responsible for recording all data and logging information on data sheets and labels in the field. Samples will be transported from the field to the laboratory by the project biologist. When samples are dropped off at the analyzing laboratory, a chain of custody form will be transferred from the project biologist to the laboratory project manager for each set of samples collected. The laboratory will verify the sample location identification, number of samples and types of samples collected. Samples will be logged in and processed per Section 7 of the analyzing laboratory's QAP.

MONITORING PROGRAM REPORT PREPARATION

Upon receipt of the results of the laboratory analysis, all data will be collated, reviewed and compared to baseline data as well as calculated Class III Water Quality Standards established by the Florida Department of Environmental Protection (FDEP) [F.A.C. 62-302.560 Criteria: Class III Waters]. A report of monitoring results will be prepared and submitted to the OCEPD following the 30 days prior to the dredge sampling event, weekly during the dredge activities, and twice after the dredging events. Data and conclusions drawn from the reports will be utilized to determine the effects, if any, of maintenance dredging on the selected surface waters located in the vicinity of the project.

If you have any questions, comments, or require any additional information do not hesitate to contact me at (407) 894-5969 or at larry@bio-techconsulting.com. Thank you.

Regards,

A handwritten signature in cursive script that reads "Larry Medlin".

Larry Medlin
Project Manager

attachments

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received

2/2/2024

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Legend

- Boundary
- Turbidity Barrier

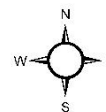
Station_ID, Area

- #1, Work Area
- #2, Outside work Area
- #3, Downstream

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

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12023 Sandy Shores Drive
Orange County, Florida
Figure 1
WQ Monitoring Stations



90 Feet
Project #:
Produced By: LPM
Date: 2/2/2024