DRC-25-075 - S Site Plan Review On-line Permit

Menu Reports Help

Description of Work: PD FINAL DETAIL-Waterside Community is a Rural Community Mixed Use subdivision. Proposed within the community is Phase 1 of a Planned Developn

Application Status: Corrections Required

Application Detail: Detail

Application Type: GM-Site Plan Review

Address: 32990 Bermont RD, Punta Gorda, FL 33982

Owner Name: TMV Properties, Inc.

Owner Address: 1240 Bay Street Ste 306, Toronto, ontario M5R2A7

Application Name: S Site Plan Review On-line Permit

Application Comments:

View ID	Comment	Date

Custom Fields:

APPLICATION TYPE

Preliminary	PD Concept
PD Preliminary Design	Minor Modification
Major Modification	PD Final Detail √

OVERVIEW INFORMATION

Is the project to be completed in phases? Yes	If Yes - the estimated number of phases is? 3
Is the property located within a Development of Regional Impact? No	If Yes - Please provide the name of the DRI _
Do commercial design standards apply? No	Is the proposed project a cluster development under se No
If Yes - please provide the name of the overlay district. _	Is the project located within the ECAP? No

PROJECT INFORMATION

Project Name Waterside Phase 1 Restoration	Brief Description of Proposed Project Waterside is a Rural Community Mixed Use subdivision. Pr Plan

ADDITIONAL PROPERTY DETAILS

Is the property located within a platted subdivision recorded in the official Plat Books? No	If Yes - how is the property identified (what is the su _
Parcel Description - Section 33	Parcel Description - Township 40
Other Property Description Short Legal ZZZ 334024 P1	Subdivision - Lot: _
Sub Area - is the property to be developed smaller than the property described above? No	What is the property's zoning designation? AG
What is the zoning designation of the surrounding properties? - EAST: AG	What is the zoning designation of the surrounding p AG
What is the property's Future Land Use Map (FLUM) designation? RCMU	What is the FLUM designation of the surrounding pr Agricultural
What is the FLUM designation of the surrounding properties - SOUTH: Agricultural	What is the FLUM designation of the surrounding pr RCMU
Is the property, or a portion of the property, within the Special Flood Hazard Area? No	Is the property, or portion of the property, in a Storn Yes
What is the minimum width of the property? 820	What is the average depth of the property? 2700
What is the total land area (acres or sq. ft._: 892	Are any taxes or assessments against the property No

PROPERTY DEVELOPMENT HISTORY

Has this property ever undergone a previous site plan review? Yes	If Yes - please indicate the SPR number: DRC-22-00125
Are there any current re-zonings filed and/or any pending decisions? No	If Yes - please indicate the type of request(s) and peti _
Have any special conditions been granted for this property which were not already listed? No	Is a variance from subdivision requirements or a rezo Yes

LAND USE DETAILS

Does the development plan include any new roads that are proposed for County maintenance? No	If Yes - is this clearly indicated on the No
Is the property proposed to be subdivided in to lots (FS Chapter 177 Subdivision)? No	Total number of lots? 2
Proposed density (lots/acre)? _	Total square footage of recreation are _
Total maximum area of all impervious surfaces? _	Percentage of lot covered by building _
Total seating capacity? _	Number of off street parking spaces? _
Maximum height allowed? _	Front yard setback proposed? _
Side yard setback proposed? _	Side yard setback required? _
Side yard abutting road required? _	Rear yard setback proposed? _
Water setback proposed?	Water setback required?

If Yes - please specify the types:
Excavation Setback 1000' from residential homes

Gross Floor Area (Total square footag

Total square footage measured from the interior face of the exterior walls:

Is any portion of the development site
None

INFRASTRUCTURE INFORMATION

Proposed minimum elevation above sea level (NGVD) of the crown of the road
20.0

Proposed minimum elevation above sea level (NG
20.5

Existing land average high:
22

Please identify the type of sewer facilities being p
Other (please specify below)

Please identify the type of sanitary water facilities being proposed?
Other (Please specify below)

If other water supply - please specify:
None proposed during this phase

What is the distance between the closest water main and the property line?
N/A

Is there a fire hydrant within 300 feet?
No

Date of concept approval:
09/22/2022

Previous Site Plan Review petition number?
DRC-22-00125

If Part - please explain:

ENVIRONMENTAL INFORMATION

Provide a brief description of the existing vegetation on the property:
Pine Flatwoods, an abandoned citrus grove, existing swales, existing nursery and several w etlands

Do any bodies of water exist on the property?
Yes

If Yes - is the water tidal?
No

Are any water related structures proposed?
No

Is an excavation of any form proposed?
Yes

If Yes - what is the proposed use of the excavation (naviga
Restoration project, berms and roads

If Yes - what is the resultant water?
Fresh

If Fresh - what means will be taken to control aquatic wee

If Yes - have wetlands been delineated by appropriate State and Federal Agencies?
Yes

If Yes - are impacts proposed?
No

If Yes - please list the species:

If Yes - has contact been made with FFWCC, FFWS and/of
No

Is there any exotic vegetation on the site?
Yes

Are there any known archeological or historical sites loca
No

If Yes - does the project propose to preserve these sites?
No

PERMITTING DETAILS

Has the County stormwater management plan approval been applied for?
Yes

If Yes - has approval been received?
No

Has a SWFWMD or SFWMD permit, or modification to an existing permit, been applied for?
Yes

If Yes for either - has an approved permit be
Yes

Has a Florida Department of Environmental Protection (FDEP) permit or approval been applied for?
Yes

If Yes - has FDEP approval been received?
No

If Yes - what is the date for the wastewater permit or approval?

If applicable - provide the date of approval o

If applicable - provide the date of approval of the FDEP permit for the water distribution line?

If applicable - provide the date of approval o
08/09/2024

Is a permit or approval required by FDOT?
No

Is there a dumpster included in the site plan
No

Is a US Army Corps of Engineers permit required?
No

If Yes - has the Army Corps permit been reci
No

Are there any other permits or approvals necessary to develop this property?
No

If Yes - please list all other permits or approv

PROFESSIONALS INFORMATION

Engineer
Yes

Architect
No

Planner
No

Surveyor
Yes

Traffic Engineer
Yes

Legal Representation
Yes

SPECIFIC SHORTFALLS

Is the application substantially complete?
Yes

If No - describe in details what is missing and when it will be a

PLAN ROOM ACKNOWLEDGEMENT

Upload Plans Acknowledgement
√

ADDITIONAL PARCEL INFORMATION

Additional Parcel Information
Also includes
402434100001

PROFESSIONAL DETAILS

Professional Type	Company Name	Contact Person	Mailing Address	Email Address	Phone number

Total Fee Assessed: $930.00

Total Fee Invoiced: $930.00

Balance: $930.00

Job Value: $0.00

Parcel No: 402433200001

Contact Info:

Name	Organization Name	Contact Type	Relationship	Address	Status	Contact Start Dat
Gary Bayne	Southwest Engin...	Engineer Contact		25450 Airport R...	Active	04/22/2025
Tom Flood	TMV Properties ...	Owner		9300 S Dadeland...	Active	04/22/2025
TMV Properties, Inc.		Owner		1240 Bay Street...	Active	04/22/2025

Licensed Professionals Info:

Primary	License Number	License Type	Name	Business Name	Business License #

File Date: 04/22/2025

Structure:

Name	Type	Status	Status Date

Workflow Status:

Task	Assigned To	Status	Status Date	Action By
Intake Sufficiency Review		Sufficient	04/29/2025	Belinda Hall
Setup Agenda	Belinda Hall	Agenda Sched...	05/01/2025	Belinda Hall
Plans Distribution	Maryann Franks	Routed for R...	05/01/2025	Belinda Hall
Comp Planning Review	Jie Shao	Rejected	05/20/2025	Jie Shao
Landscape Plans Review	Elizabeth Nocheck	Rejected	05/14/2025	Elizabeth Nocheck
Stormwater Plans Review	Jason Thomas	Rejected	05/05/2025	Jason Thomas
PW Surveyor Plans Review	James K Davis	Rejected	05/15/2025	James K Davis
Real Estate Services	Patricia Stefan	Approved	05/05/2025	Patricia Stefan
Charlotte Co Utilities...	Sandra Weaver	Approved	05/21/2025	Sandra Weaver
Fire Plans Review	Scott Morris	Rejected	05/05/2025	Scott Morris
Concurrency Review	Ravi Kamarajugadda	Rejected	05/22/2025	Ravi Kamarajugadda
Zoning Plans Review	Maryann Franks	Rejected	05/05/2025	Maryann Franks
Building Plans Review	Julia Galofre	Approved as ...	05/05/2025	Julia Galofre
PW Lighting District	Jody Mansell	Approved	05/16/2025	Jody Mansell
PW Signs and Markings ...	Robert Campbell	Approved	05/05/2025	Robert Campbell
PW Construction Services	Roy Benjamin	Approved	05/06/2025	Roy Benjamin
PW Transportation Engi...	Robert Fakhri	Approved	05/22/2025	Robert Fakhri
Address Plans Review	Samantha DiPiazza	Approved	05/07/2025	Samantha DiPiazza
Environment Plans Review	Jim Keltner	Approved as ...	05/12/2025	Jim Keltner
Health Dept Plans Review	Melanie Brese	Not Required	05/02/2025	Melanie Brese
Plans Consolidation	Maryann Franks	Corrections ...	05/23/2025	Maryann Franks
SPR Meeting and Decision			05/01/2025	

Adhoc Task Status:

Task	Assigned To	Status	Status Date	Action By

Tracking #: 1434495231236

Condition Status:

Name	Short Comments	Status	Apply Date	Severity	Action By

Scheduled/Pending Inspections:

Inspection Type	Scheduled Date	Inspector	Status	Comments

Resulted Inspections:

Inspection Type	Inspection Date	Inspector	Status	Comments

Assigned To:

Conditions of Approval:

Group	Type	Condition Name	Short Comments	Status	Status Date	Severity

Failed Checklist Item:

Inspection Type	Checklist Name	Checklist Item	Status	Score	Major Violation	Comments

Passed Checklist Item:

Inspection Type	Checklist Name	Checklist Item	Status	Score	Major Violation	Comments

Southwest Florida Water Management District
2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal Opportunity Employer

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
78 Sarasota Center Boulevard
Sarasota, Florida 34240-9770
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

December 13, 2023

TMV Properties, Inc.
Attn: Tom Flood
3200 Bailey Ln., Suite 199
Naples, FL 34105

Subject: **Notice of Intended Agency Action - Approval**
ERP Individual Construction Major Modification

Project Name:	Waterside AG Ditch Modification
App ID/Permit No:	882210 / 43010748.003
County:	Charlotte
Sec/Twp/Rge:	S33/T40S/R24E, S34/T40S/R24E, S28/T40S/R24E, S27/T40S/R24E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Reed McKown E.I.
Gary W. Bayne, P.E., Southwest Engineering & Design, Inc.

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Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved.

Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Permit w/Conditions Attached
As-Built Certification and Request for Conversion to Operation Phase
Notice of Authorization to Commence Construction
Notice of Rights

cc: Reed McKown E.I.
Gary W. Bayne, P.E., Southwest Engineering & Design, Inc.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE

INDIVIDUAL CONSTRUCTION MAJOR MODIFICATION
PERMIT NO. 43010748.003

EXPIRATION DATE: **December 13, 2028** **PERMIT ISSUE DATE:** **December 13, 2023**

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME:	Waterside AG Ditch Modification
GRANTED TO:	TMV Properties, Inc. Attn: Tom Flood 3200 Bailey Ln., Suite 199 Naples, FL 34105
OTHER PERMITTEES:	N/A

This permit authorization is for the modification of a constructed stormwater management system approved under Management and Storage of Surface Water (MSSW) No. 40010748.000, serving a 179.75-acre agricultural operation. The proposed activities include:

1. Construction of additional agricultural ditches which are to serve as irrigation sources for crops associated with Water Use Permit 20010874.006.

2. Replacement of the previously permitted discharge control structure with new outfall control structure DS-01.

This Permit Modification No. 43010748.003 amends the previously issued Permit No. 40010748.000 and adds conditions. All other original permit conditions remain in effect.

OP. & MAIN. ENTITY:	TMV Properties, Inc.
OTHER OP. & MAIN. ENTITY:	N/A
COUNTY:	Charlotte
SEC/TWP/RGE:	S33/T40S/R24E, S34/T40S/R24E, S28/T40S/R24E, S27/T40S/R24E
TOTAL ACRES OWNED OR UNDER CONTROL:	293.31
PROJECT SIZE:	179.75 Acres
LAND USE:	Agriculture
DATE APPLICATION FILED:	November 02, 2023
AMENDED DATE:	N/A

I. Water Quantity/Quality

Water Quantity/Quality Comments: The previously permitted Pond 1 authorized by Permit No. 43010748.001 provides treatment for runoff from the site via wet detention.

It also provides attenuation of the post-development 25-year, 24-hour peak discharge rate to the pre-development 25-year, 24-hour peak discharge rate and will continue to be tracked under its respective permit.

The plans and calculations reflect the North American Vertical Datum of 1988 (NAVD 88).

A mixing zone is not required.
A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
0.00	0.00	No Encroachment	N/A

Floodplain Comments: The project proposes no fill placement within a known 100-year riverine floodplain or depression storage areas associated with 100-year riverine floodplain.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

No wetlands or other surface waters exist within the project area.

Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.

2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.

3. The removal of littoral shelf vegetation (including cattails) from wet detention ponds is prohibited unless otherwise approved by the District. Removal includes dredging, the application of herbicide, cutting, and the introduction of grass carp. Any questions regarding authorized activities within the wet detention ponds shall be addressed to the District's Engineering Manager at the Tampa Service Office.

4. This Permit Modification No. 43010748.003 amends the previously issued Permit No. 40010748.000 and adds conditions. All other original permit conditions remain in effect.

5. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease.

6. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.

7. The Permitted Plan Set for this project includes the set received by the District on November 30, 2023.

8. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.

9. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.

10. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

11. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

    a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

    b. Any existing septic tanks on site shall be abandoned at the beginning of construction.

    c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.

12. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

13. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the

area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

14. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

15. This permit does not authorize the Permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

16. A “Recorded notice of Environmental Resource Permit,” Form No. 62-330.090(1), shall be recorded in the public records of the county where the project is located.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A” are hereby incorporated into this permit by reference and the Permittee shall comply with them.

David Kramer, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

1 The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.

a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.

b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(8)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5),F.A.C. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or

2. For all other activities - "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].

3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

g. If the final operation and maintenance entity is a third party:

1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310 (2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

i. This permit does not:

1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

2. Convey to the permittee or create in the permittee any interest in real property;

3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

l. The permittee shall notify the Agency in writing:

1. Immediately if any previously submitted information is discovered to be inaccurate; and

2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving

subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S. (2012).

o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

NOTICE OF

AUTHORIZATION

TO COMMENCE CONSTRUCTION

Waterside AG Ditch Modification

PROJECT NAME

Agriculture

PROJECT TYPE

Charlotte

COUNTY

S33/T40S/R24E...
See Permit for additional STR listings

SEC(S)/TWP(S)/RGE(S)

TMV Properties, Inc.

PERMITTEE See permit for additional permittees

APPLICATION ID/PERMIT NO: 882210 / 43010748.003

DATE ISSUED: December 13, 2023

David Kramer, P.E.

Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.

2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.

3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.

4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.

5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.

6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.

7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North,Tampa,FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9788. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.

2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9. 110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

13-0191.04

GEOTECHNICAL ENGINEERING REPORT

Waterside
32330 Bermont Road
Punta Gorda, Florida

Prepared for:

Mr. Gary Bayne, PE
Southwest Engineering & Design
25450 Airport Road, ST B
Punta Gorda, FL 33950

LET LOMSKI
Engineering & Testing

17210 Toledo Blade Boulevard
Port Charlotte, FL 33954
P: 941.979.5744 / F: 941.979.5748

LET LOMSKI
Engineering & Testing

May 25, 2022

Mr. Gary Bayne, PE
Southwest Engineering & Design
25450 Airport Road, St B
Punta Gorda, FL 33950

Reference: **Geotechnical Engineering Services**
Waterside
32330 Bermont Road
Punta Gorda, Charlotte County, FL
LET Project No.: 32-2011

Dear Mr. Bayne:

Lomski Engineering & Testing, Inc. (LET) is pleased to submit our report for engineering services associated with the Waterside site located at 32330 Bermont Road in Punta Gorda, Charlotte County, FL. The purposes of this investigation were to evaluate soil and groundwater conditions within the proposed area to verify soil type and suitability of material. This report includes the results of the field and laboratory testing performed utilized in our recommendations. This report also describes our exploration procedures, exhibits the data obtained and presents our conclusions and recommendations regarding the geotechnical aspects of this project.

We appreciate the opportunity to provide these services to you. If you have any questions regarding this report of if we may be of further service to you, please do not hesitate to call.

Sincerely,

LOMSKI ENGINEERING & TESTING, INC.

EDWARD P. LOMSKI, JR. LICENSE No 62507 STATE OF FLORIDA PROFESSIONAL ENGINEER

Edward P. Lomski, P.E.
Florida Registration #62507

ERL/ll
Enclosures

17210 Toledo Blade Boulevard, Port Charlotte, FL 33954
941.979.5744 f 941.979.5748 www.LET-fl.com

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APPENDIX
- Laboratory Test Results
- Soil Boring Location Map
- Soil Boring Profiles

PROJECT INFORMATION

Project Description

The proposed site is located in the Southeastern portion of Charlotte County, in the town of Punta Gorda, Florida. The site is currently unoccupied, with various levels of trees and vegetation. The proposed site will consist of a 59.01-acre mine facility.

The corridors adjacent to the existing site are mainly comprised of unoccupied pasture/farm lands, along with isolated commercial mine use. The site topography is relatively level, no pronounced surface gradient can be determined visually. No standing water on the surface was observed along the project route during the time of our investigation.

If any of the noted information is incorrect or has changed, please inform LET so that we may amend the recommendations presented in this report if appropriate.

Purpose and Scope of Work

The purpose of this study was to obtain information on the general subsurface conditions within the proposed pond excavation area. The subsurface materials encountered were then evaluated with respect to the available project characteristics.

The following services were provided in order to achieve the preceding objectives:

1. Reviewed readily available published geological and topographic information. This published information was obtained from the Soil Survey of Charlotte County, published by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS).
2. Executed a program of subsurface exploration consisting of subsurface sampling and field testing. LET performed the following soil borings:
    - Seven (7) Standard Penetration Test (SPT) borings at locations designated by Southwest Engineering and Design (SED) to a depth of 40 feet below the existing ground surface.
    - Three (3) Monitoring Wells installations at locations designated by SED to a maximum depth of 20 feet below the existing ground surface.
3. Visually classified representative soil samples in the laboratory using the Unified Soil Classification System. Identified soil conditions and form an opinion of the site soil stratigraphy at each boring location.
4. Collected groundwater levels and estimated seasonal high groundwater level at the boring locations.
5. The results of the subsurface exploration have been used in the engineering analysis and in the formulation of our recommendations. The results of the subsurface exploration, including recommendations and the data on which they are based, are presented in this report.

REVIEW OF PUBLISHED DATA

Charlotte County Soil Survey

Based on the USDA Soil Conservation Services (SCS) Soil Survey the following soil types were identified within the project limits. The following table identifies general soil characteristics for each type of soil.

Charlotte County SCS Soil Survey Review

Unit No.	Soil Name	Soil Description	Classification		Seasonal High Water (ft)	Clay (%)	Organic Matter (%)	Permeability (in/hr)
			Depth (in)	AASHTO				
12	Felda Fine Sand	Nearly level, poorly drained soil on broad, nearly level sloughs. Slopes are smooth to concave and range from 0 to 2 percent.	0-22	A-3	0-1.0	1-30	1-4	0.6-20
			22-38	A-2-4, A-2-6				
			38-80	A-3, A-2-4				
28	Immokalee Fine Sand	Nearly level, poorly drained soil in flatwoods areas. Slopes are smooth to convex and range from 0 to 2 percent.	0-9	A-3	0-1.0	1-7	1-2	0.6-20
			9-36	A-3				
			36-55	A-3, A-2-4				
			55-80	A-3				
33	Oldsmar Fine Sand	Nearly level, poorly drained soil on low, broad flatwoods areas. Slopes are smooth to slightly convex and range from 0 to 2 percent.	0-42	A-3	0-1.0	<2-30	1-2	<0.2-20
			42-47	A-3, A-2-4				
			47-58	A-2-4, A-2-6				
			58-80	A-3, A-2-4				
34	Malabar Fine Sand	Nearly level, poorly drained soil on sloughs. Slopes are smooth to concave and range from 0 to 1 percent.	0-17	A-3	0-1.0	1-25	1-2	<0.2-20
			17-42	A-3, A-2-4				
			42-59	A-2, A-4, A-6				
			59-80	A-3, A-2-4				

The soils classified as A-3 and A-2-4 are appropriate for use as general embankment fill. Plastic (A-2-6, A-4, A-6) and/or organic (A-8) soils maybe present within the project vicinity. Plastic soils would be considered moisture sensitive and, if encountered, will likely require removal and have restricted use as roadway embankment fill.

Information contained in the SCS Soil Survey is very general and may be outdated. It may not therefore be reflective of actual soil and groundwater conditions, particularly if recent development in the site vicinity has modified soil conditions or surface/subsurface drainage.

SUBSURFACE CONDITIONS

General information

The analysis and recommendations contained in this report are based in part on the data obtained from a limited number of soil samples and groundwater measurements obtained from widely-spaced borings. The investigation methods used to indicate subsurface conditions only at the specific boring locations, only at the time they were performed, and only to the depths penetrated. Borings cannot be relied upon to accurately reflect variations that usually exist between boring locations and these variations may not become evident until construction. If variations from conditions described in this report become evident during construction, or if project characteristics described in this report change, LET should be retained so that we can reevaluate this report's conclusions and recommendations in light of such changes.

Any evaluation of the site for the presence of surface or subsurface hazardous substances is beyond the scope of this study. When suspected hazardous substances are encountered during routine geotechnical investigations, they are noted in the exploration logs and reported to the client. No such substances were identified during our exploration.

Subsurface Exploration

The subsurface exploration was performed during on April 2, 2022. The subsurface was explored by drilling seven (7) test borings. The number, depths and locations were designated by SED, Inc. The SPT borings (B-1 through B-7) were drilled using a track mounted continuous-flight auger with a 2.0 inch outside diameter (OD), 1.4 inch inside diameter (ID) split-spoon sampler. The native soils were sampled in-place every 2 to a depth of 10 feet by use of a standard 2.0 inch OD split-spoon sampler driven by a standard 140-pound drive hammer with a 30-inch stroke (ASTM D-1586). After seating the sampler 6 inches, the number of successive blows required to drive the sampler 12 inches into the soils constitutes the test result commonly referred to as the N-value. The N-value has been empirically correlated with various soil properties and is considered to be indicative of the relative density of cohesionless soils and the consistency of cohesive soils. The recovered split-spoon samples were described in the field with representative portions of the samples placed in jars and transported to our office for routine laboratory testing. Following completion, the SPT borings were sealed with cement/bentonite grout.

LET also performed three (3) auger borings in conjunction with monitoring well installation: MW-1 through MW-3 were drilled to a maximum depth of 20-feet. Each well consisted of a 20-foot length of 2-inch diameter machine slotted PVC pipe, that was flush joint coupled to a solid riser pipe of similar composition. The wells were installed using a continuous flight auger. Once the borehole had been advanced to the terminal depth, the well screen and riser pipe were placed into the casing. The annular space around the well screen was then filled with 6/20 silica sand from the bottom of the borehole to the top of the well screen. The sand filter was topped with a 6-inch thick 30-65 fine sand layer followed by bentonite chips (to provide a low permeability seal) to the existing land surface. The groundwater was measured at the time of drilling, when encountered, in each borehole.

As each soil type is revealed, it is visually examined and classified. Representative samples were then placed in air-tight jars for future analysis. The borings were drilled at locations designated by SED and are shown on the Boring Location Map located in the Appendix.

Hydraulic Conductivity

The in-place hydraulic conductivity was conducted in each monitoring well. The hydraulic conductivity was calculated from the falling-head test results in general accordance with South Florida Water Management District methods as discussed previously.

Well No.	Hydraulic Conductivity
MW-1	20.90 ft/day
MW-2	17.64 ft/day
MW-3	19.38 ft/day

Material Classification

LET personnel examined and classified all soils in the field in general accordance with ASTM D 2488 (Description and Identification of Soils). During exploration, representative bulk samples were placed in sealed glass jars and returned to our Port Charlotte, Florida laboratory for testing. Additional soil classification and verification of the field classifications were subsequently performed in accordance with ASTM D 2487 (Unified Soil Classification System [USCS]) upon completion of laboratory testing as described below in the **Laboratory Testing** section. All soil testing performed in the LET, Inc. soils laboratory is conducted in accordance with ASTM, AASHTO, and FDOT standards.

Samples of significant soil types were analyzed to determine their grain size distribution and plasticity index. The results were used to classify the soils according to the USCS (ASTM D 2487) and to check the field logs, which were then updated as appropriate. Classification in this manner provides an indication of the soil mechanical properties, which can be correlated to standard penetration testing and published charts to evaluate bearing capacity. The laboratory testing program for this project is summarized below:

Specific test result data is presented and summarized on the Laboratory Test Results Table in the Appendix.

General Soil Conditions

The subsurface conditions encountered at each boring location are described on the Soil Boring Logs in the Appendix of this report. The boring logs represent our interpretation of the subsurface conditions based on the field logs, and visual observation of field samples by an experience soils engineer. These logs describe the visual characteristics of all soil strata encountered using the Unified Soil Classification System. Groundwater observations, sampling information, and other pertinent field data and observations are also included.

The boring logs indicate subsurface conditions only at the specific boring locations at the time of our field exploration. Subsurface conditions, including groundwater levels, at other locations of the project site may differ from conditions we encountered at the boring locations. Moreover, conditions at the boring locations can change over time. Groundwater levels fluctuate seasonally, and soil conditions can be altered by earthmoving operations.

The depths and thicknesses of the subsurface strata indicated on the boring logs were interpolated between samples obtained at different depths in the borings. The actual transition between soil layers may be different that indicated. These stratification lines were used for our analytical purposes and actual earthwork quantities measured during construction should be expected to vary from quantities calculated based on the information in this report.

In general, our auger borings predominantly encountered fine sand with variable silt content (A-3, A-2-4); however, silty to clayey sands (A-2-6, A-4, A-6) were encountered in several borings at varying depths. The soil description and stratum numbers used for the auger boring is summarized as follows:

Stratum No.	Soil Description	Compactness (SPT N-values)	AASHTO Classification
1	Light Gray to Gray, fine to slightly silty sand	Loose to Medium Dense (5 to 27 bpf)	A-3, A-2-4
2	Brown to Grayish Brown, fine sand	Loose to Dense (7 to 41 bpf)	A-3
3	Light Brownish Gray, Fine to slightly silty sand, with shell and rock	Loose to Very Dense (7 to 50/1" bpf)	A-1-a
4	Gray to Olive Gray, silty to clayey sand	Loose to Dense (8 to 41 bpf)	A-2-4, A-2-6

The descriptions presented above are of a generalized nature to highlight the major subsurface stratification features and material characteristics. The soil profiles should be reviewed for specific information at individual boring locations. The stratifications shown on the boring profiles represent the conditions only at the actual boring locations. The stratifications represent the approximate boundary between subsurface materials and the actual transition may be gradual.

A layer of clayey sand (stratum 6) was encountered in all the boring locations at various depths. It is our opinion that this clayey layer will perform as the confining layer for the proposed site.

Groundwater Conditions

Encountered groundwater levels for the borings performed during April 3, 2022 were about 3.0 to 4.0 feet below the ground surface at the time of drilling. Fluctuations in the groundwater level may occur due to rainfall patterns, surficial drainage features, and construction processes. Alterations in surface and/or subsurface drainage brought about by site development can also affect groundwater levels. Therefore, groundwater depths measured at different times or at different locations along the project alignment can be expected to vary from those measured by LET during this investigation.

Seasonal High Water Table Estimates

For a typical year in Desoto County, over 60% of the annual rainfall occurs during the months of June through November. During this period, water levels gradually rise to their annually highest levels, which typically occur in August to September. During the relatively dry portion of the year (from October to May), the water table recedes to lower levels, typically reaching the lowest level in May.

The seasonal high water table is the highest level that is achieved during the year. Of course, the seasonal high water table varies from year to year, primarily due to rainfall variations from year to year.

The U.S. Department of Agriculture, Natural Resources Conservation Service, (USDA-NRCS) defines the seasonal high water table as the highest level of a saturated zone in the soil in most years. In the USDA-NRCS soil surveys, a range of seasonal high water tables is listed for each of the defined surficial soil types. The water table is estimated to be at or above this level for at least one month during most years. These estimates are based mainly on evidence of a saturated zone (grayish colors or mottles) and are generally applicable to an undrained soil condition (i.e. no artificial drainage).

The Southwest Florida Water Management District (SWFWMD) defines the seasonal high water table as the elevation to which the water can be expected to rise during a normal wet season. This definition differs somewhat from the USDA-NRCS definition. The most significant difference is that the USDA-NRCS refers to the highest level of a saturated zone. Due to capillary rise, the saturated zone may extend a few to several inches above the water table. This is because the capillary zone is a saturated zone above the water table where the fluid (pore water) pressure is less than atmospheric pressure. Therefore, water from the capillary zone will not flow into a borehole which penetrates the aquifer. Only in the area below the water table, where the pore water pressure is greater than atmospheric pressure, will the water flow into an open borehole.

The height of the capillary rise is generally less than 6-inches above the water table in most of the surficial sandy soils typical of the area, but may be greater if the surficial soils are more silty or clayey. The seasonal high water table, as defined in the geotechnical engineering practice (and as accepted by SWFWMD) may, therefore, be somewhat lower than that reported in the USDA-NRCS soil surveys.

For the purpose of designing stormwater management systems, it is our objective to estimate the seasonal high water table as the elevation the water table is expected to be at or above for no more than a few (approximately 2 to 4) weeks during a year of average climatic conditions.

The USDA-NRCS Soil Survey of Charlotte County, Florida" (1983) indicates a number of soil types on the property. Selected properties of these soil types are included on page 4 of this report.

The predominant surficial soil types in the area of the subject site are Felda and Immokalee fine sands. The soil survey indicates the seasonal high water table to occur at a depth in the range of 0 to 1.0 below the ground surface for these soils types.

For the reasons stated above, our estimates of the seasonal high water tables will likely be in the lower portions of the Soil Survey ranges or somewhat lower than these ranges. For the purpose of this report, estimated seasonal high groundwater levels are defined as groundwater levels that are anticipated at the end of the wet season of a "normal rainfall" year under current site conditions. We define a "normal rainfall" year as a year in which rainfall quantity and distribution were at or near historical rainfall averages. The Seasonal High Water Level was determined in each bore hole by evaluating the presence of a stripped matrix at each location. The seasonal high water table is estimated to range from 0.5 to 1.5 feet below the existing ground elevation.

CONSTRUCTION OBSERVATION AND TESTING SERVICES

The information presented in this report assumes that the owner/project manager will provide sufficient field-testing and construction review during all phases of construction. Prior to construction, the owner/project manager should schedule a pre-job conference to include, but not be limited to, the owner, architect, civil engineer, the general contractor, earthwork and materials subcontractors, building official and geotechnical engineer. It is the owner's/project manager responsibility to set-up this meeting and contact all responsible parties. The conference will allow parties to review the project plans, specifications, and data presented in this report. All quality control reports should be submitted to the owner/ project manager for review and distributed to the appropriate parties.

During construction, LET, Inc. should have the opportunity to provide sufficient on-site observation of site preparation and grading, over-excavation, fill placement, foundation installation, and paving. These observations would allow us to document that the geotechnical conditions are as anticipated and that the contractor's work meets with the criteria in the approved plans and specifications.

STANDARD LIMITATION CLAUSE

This report has been prepared in accordance with generally accepted local geotechnical practices. The test result and analyses submitted are based upon field exploration performed at the locations noted in the Appendix of this report. This report does not reflect soils variations that may become evident during the construction period, at which time re-evaluation of the recommendations may be necessary. We recommend our firm be retained to perform construction observation in all phases of the project related to geotechnical factors to document compliance with our recommendations. The owner/project manager is responsible for distribution of this geotechnical report to all designers and contractors whose work is related to geotechnical factors.

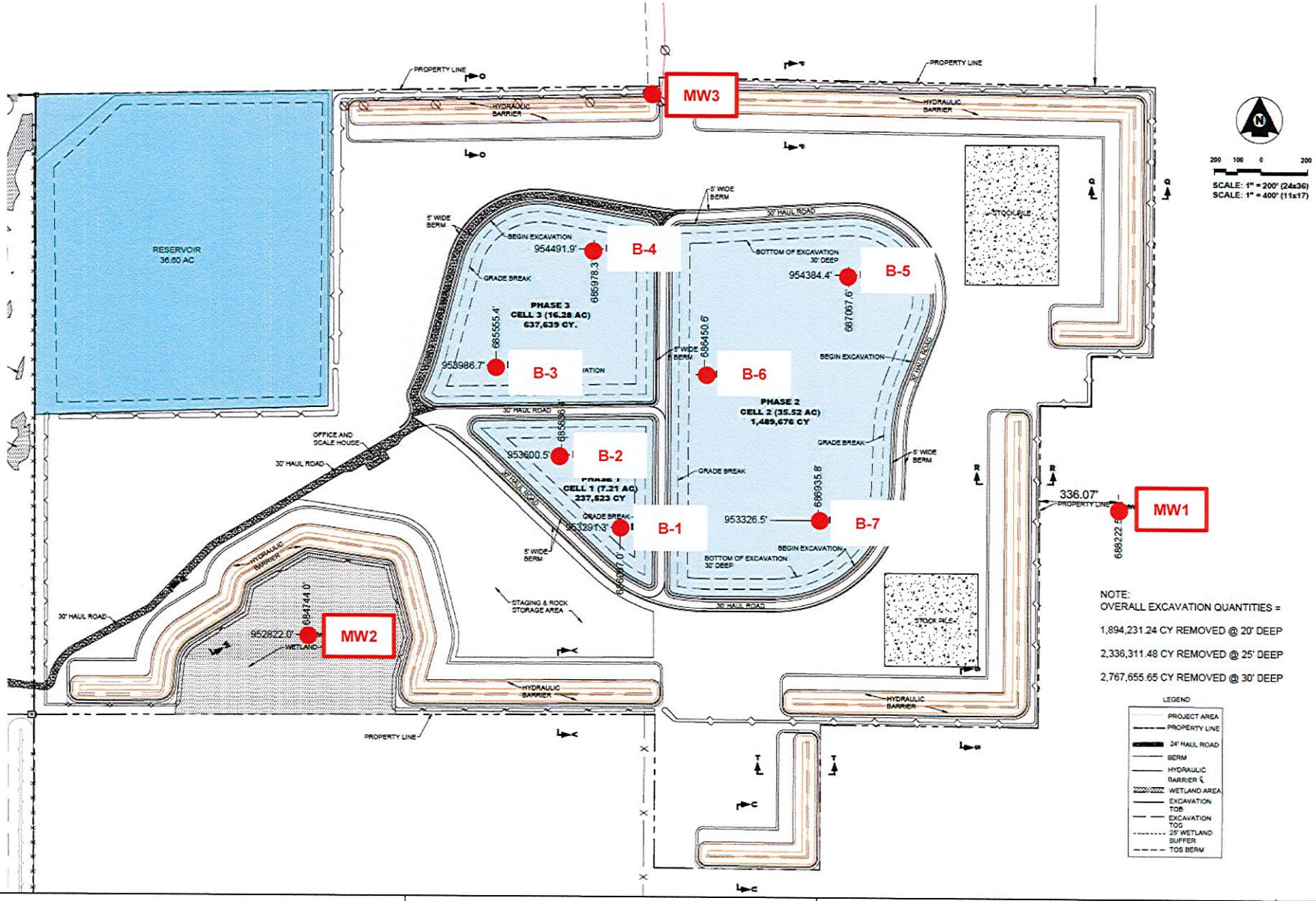
All plans and specifications should be reviewed by the design engineer responsible for this geotechnical report, to determine if they have been completed in accordance with the recommendations contained in this report, prior to submitting to the building department for review. It is the owner's/project manager responsibility to provide the plans and specifications to the engineer.

Water level readings were made on the date shown of the test borings. Fluctuations in the water table may occur due to rainfall, temperature, seasonal runoff of adjacent irrigation practices. Construction planning should be based on assumptions of possible variations.

This report has been prepared to provide information allowing the engineer to design the project. The owner/project manager is responsible for distribution of this report to all designers and contractors whose work is affected by geotechnical aspects. In the event of changes in the design, location, or ownership of the project after presentation of this report, the information contained herein should be reviewed and possible modified by LET. If LET is not accorded the privilege of making this recommended review, we can assume no responsibility for misinterpretation or misapplication of this data or its validity in the event changes have been made in the original design concept without our prior review. LET makes no other warranties, either expressed or implied, as to our information provided under the terms of this agreement and included in this report.

This report was prepared by Lomski Engineering and Testing, Inc. for the account of Southwest Engineering & Design. The material in it reflects LET's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. LET accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

APPENDIX

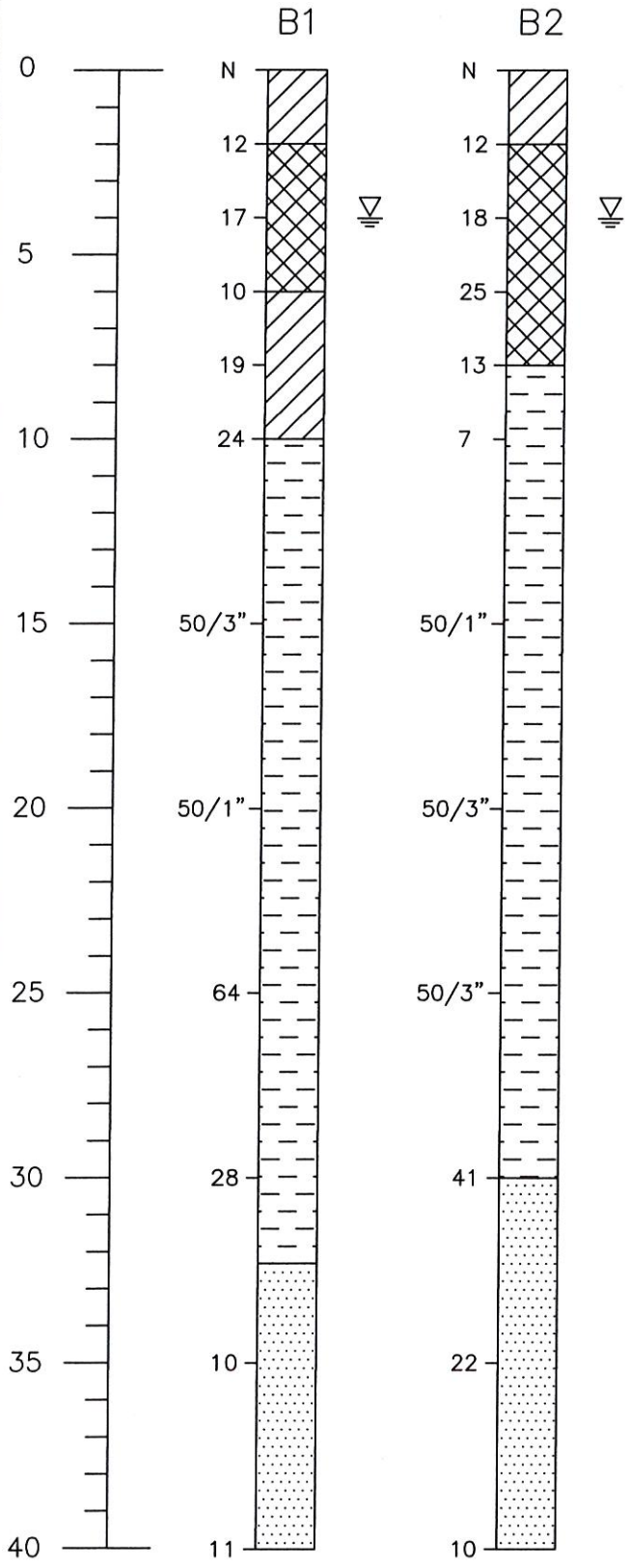


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WATERSDIE
32330 BERMONT ROAD
PUNTA GORDA. FL

SED
BORING LOCATION MAP

Sheet No.
1-1



SOILS LEGEND

1. Light Gray to Gray, Fine to Slightlt Silty Sand, Loose to Medium Dense
2. Brown to Grayisg Brown, Fine Sand, Loose to Dense
3. Light Brownish Gray, Fine to Slightlt Silty Sand, with shell and rock Loose to Very Dense
4. Gray to Olive Gray, Silty to Clayey Sand, Loose to Dense

SOILS PROFILE LEGEND

B-X BORING NUMBER

▽ GROUND WATER LEVEL

WOH WEIGHT OF HAMMER

HA HAND AUGER BORING

OC ORGANIC CONTENT

SOILS CLASSIFICATION

CORRELATION OF N- VALUES WITH RELATIVE DENSITY AND CONSISTENCY

COHESIONLESS SOIL		SILTS AND CLAYS	
N - VALUE	RELATIVE DENSITY	N - VALUE	CONSISTENCY
0 - 4	VERY LOOSE	0 - 2	VERY SOFT
5 - 10	LOOSE	3 - 4	SOFT
11 - 30	MEDIUM DENSE	5 - 8	FIRM
31 - 50	DENSE	9 - 15	STIFF
OVER 50	VERY DENSE	16 - 30	VERY STIFF
		31 - 50	HARD
		OVER 50	VERY HARD

APPROXIMATE FINES CONTENT	MODIFERS
5% TO 12%	SLIGHTLY SILTY OR SLIGHTY CLAY
12% TO 30%	SILTY OR CLAYEY
30% TO 50%	VERY SILTY OR VERY CLAYEY

CORRELATION OF N- VALUES WITH HARDNESS DESCRIPTION

LIMEROCK

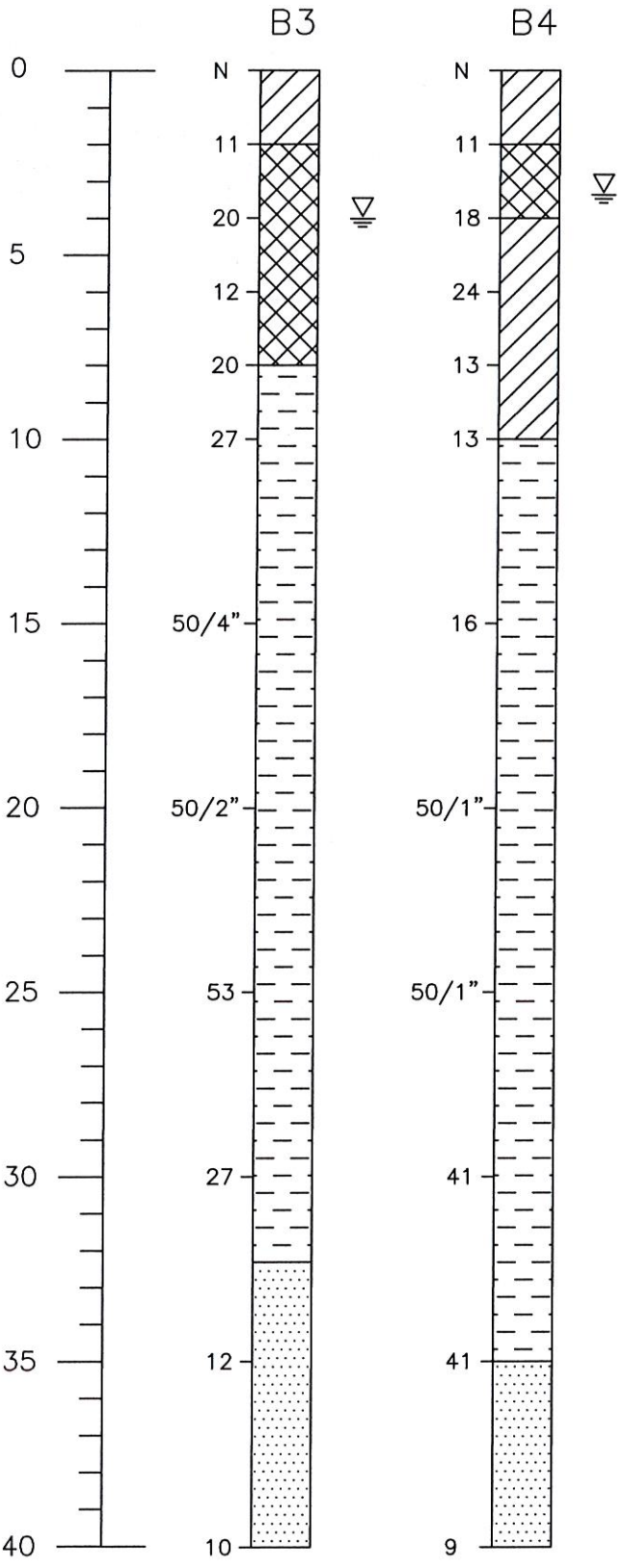
N - VALUE	RELATIVE DENSITY
0 - 19	VERY SOFT
20 - 49	SOFT
50 - 100	MEDIUM HARD
50 FOR 2 - 5"	MODERATELY HARD
50 FOR 0 - 2"	VERY HARD

APPROXIMATE ROCK/SHELL/ ROOT CONTENT	MODIFERS
5% TO 10%	TRACE
10% TO 20%	TRACE TO SOME
20% TO 40%	SOME
40% TO 60%	AND

CLIENT: SOUTHWEST ENGINEERING & DESIGN
PROJECT: WATERSIDE EXCAVATION
PROJECT#: 32-2011
COUNTY: PUNTA GORDA, CHARLOTTE

SOILS PROFILES

LET LOMSKI
Engineering & Testing
17210 Toledo Blade Boulevard, Port Charlotte, FL 33954
Tel. (941) 979-5744Fax (941) 979-5748



SOILS LEGEND

1. Light Gray to Gray, Fine to Slightlt Silty Sand, Loose to Medium Dense
2. Brown to Grayisg Brown, Fine Sand, Loose to Dense
3. Light Brownish Gray, Fine to Slightlt Silty Sand, with shell and rock Loose to Very Dense
4. Gray to Olive Gray, Silty to Clayey Sand, Loose to Dense

SOILS PROFILE LEGEND

B-X BORING NUMBER

▽ GROUND WATER LEVEL

WOH WEIGHT OF HAMMER

HA HAND AUGER BORING

OC ORGANIC CONTENT

SOILS CLASSIFICATION

CORRELATION OF N- VALUES WITH RELATIVE DENSITY AND CONSISTENCY

COHESIONLESS SOIL		SILTS AND CLAYS	
N - VALUE	RELATIVE DENSITY	N - VALUE	CONSISTENCY
0 - 4	VERY LOOSE	0 - 2	VERY SOFT
5 - 10	LOOSE	3 - 4	SOFT
11 - 30	MEDIUM DENSE	5 - 8	FIRM
31 - 50	DENSE	9 - 15	STIFF
OVER 50	VERY DENSE	16 - 30	VERY STIFF
		31 - 50	HARD
		OVER 50	VERY HARD

APPROXIMATE FINES CONTENT	MODIFERS
5% TO 12%	SLIGHTLY SILTY OR SLIGHTY CLAY
12% TO 30%	SILTY OR CLAYEY
30% TO 50%	VERY SILTY OR VERY CLAYEY

CORRELATION OF N- VALUES WITH HARDNESS DESCRIPTION

LIMEROCK

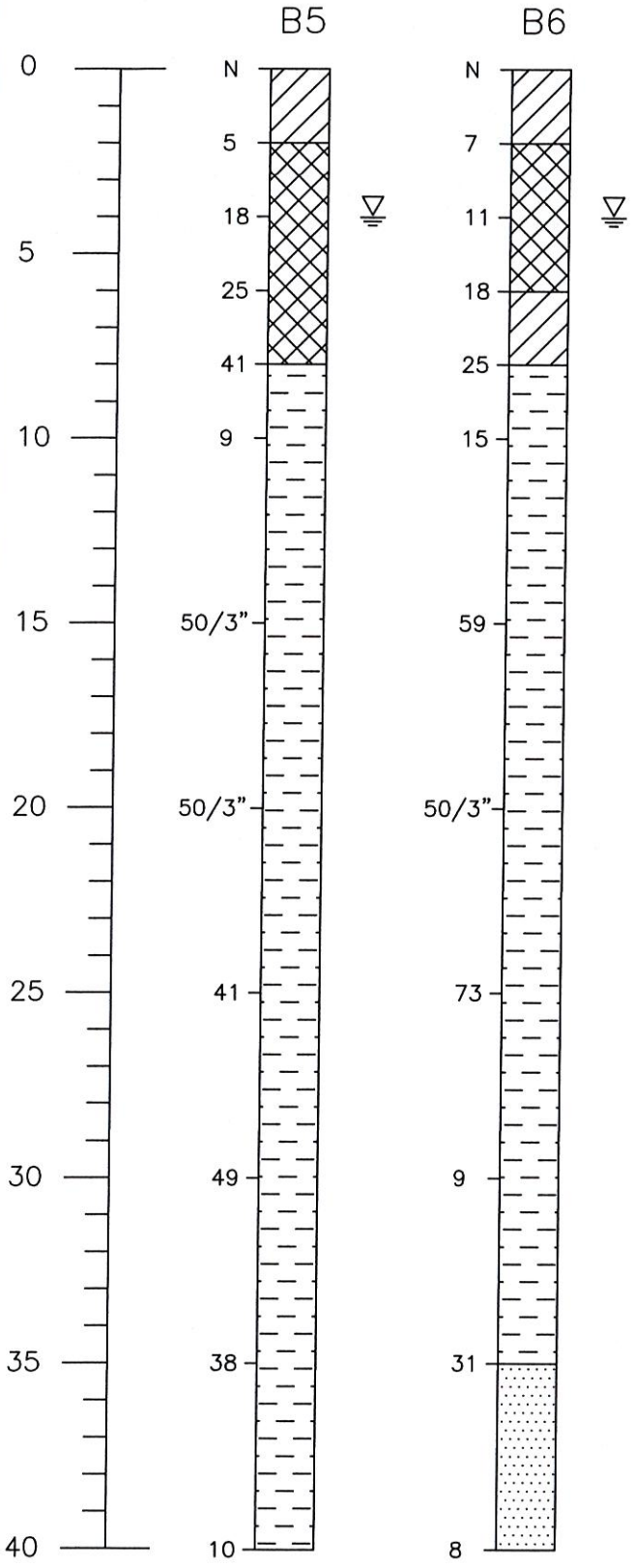
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WOH	WEIGHT OF HAMMER
HA	HAND AUGER BORING
OC	ORGANIC CONTENT

SOILS CLASSIFICATION

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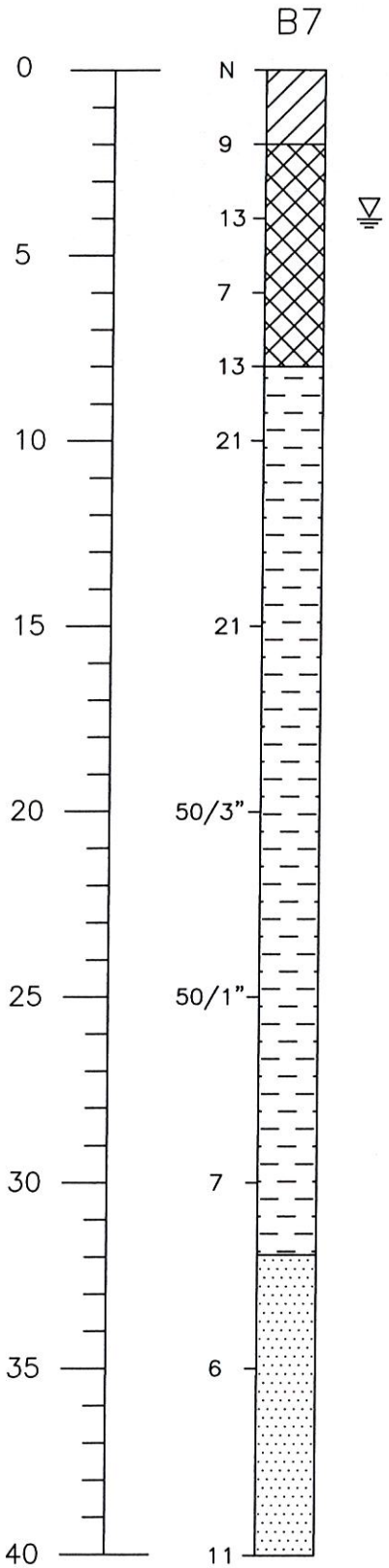
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PROTECTED SPECIES ASSESSMENT

Section 33, Township 40S, Range 24E

Charlotte County, Florida

Waterside

Project 13-0191.4

April 2025

Prepared for:

Southwest Engineering and Design

25450 Airport Road, Suite B

Punta Gorda, Florda 33950

Prepared by:

Lynlee May

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

(941) 367 – 9655

Introduction

The following assessment has been prepared to identify onsite vegetative communities and address wildlife species listed by the Florida Fish and Wildlife Conservation Commission (FWC) and the U.S. Fish and Wildlife Service (FWS) as endangered or threatened, which may be utilizing the subject property.

The subject property is located in section 33, township 40S, range 24E in Charlotte County, Florida. More specifically, the project is located north of Bermont Road, west of Bronco Road, east of Swaying Palm Drive and south of Rustic Drive. Please refer to the PROJECT LOCATION MAP.

Site Conditions

A site inspection was conducted by a qualified staff environmentalist in April 2025. During the pedestrian transect survey, temperatures ranged from 85° - 88° F, winds were 10-12 mph and skies were clear.

Vegetative Classifications

Field observations, along with utilizing the Charlotte County Soil Survey and aerial photographs, were used to develop a map of the on-site vegetative communities. The following table conveys the vegetative association found on the subject property. These vegetative communities were identified and classified using the Florida Land Use, Cover and Forms Classification System (FLUCCS). The presence/absence of any on-site jurisdictional wetlands and/or surface waters, as well as the limits of any on-site jurisdictional wetlands and/or surface waters, are preliminary and are subject to review/approval by applicable regulatory agencies. A description for each of the on-site vegetative communities is included. Please refer to the FLUCCS MAP.

FLUCCS ID	FLUCCS DESCRIPTION	ACREAGE
224	**Abandoned Groves - Orange**	**29.35 ±**
8145	**Roads, Graded and Drained**	**30.30 ±**
743	**Spoil Areas**	**58.27 ±**
510D	**Ditch**	**16.08 ±**
190	**Open Land**	**78.41 ±**
525	**Stormwater Management Area**	**32.36 ±**
160	**Extractive – Burrow Pit**	**22.50 ±**
241	**Tree Nursery**	**13.84 ±**
625	**Hydric Pine Flatwoods**	**1.48 ±**

414	**Pine – Mesic Oak**	**9.54 ±**
436	**Upland Scrub, Pine and Hardwoods**	**1.17 ±**
Total		**293.30 ±**

FLUCCS 224 - Abandoned Groves -Orange

This upland habitat has a canopy comprised of southern wax myrtle (*Myrica cerifera*). Midstory and groundcover species present include: beggarticks (*Bidens alba*), muscadine (*Vitis rotundifolia*), poverty rush (*Juncus tenuis*), largeleaf pennywort (*Hydrocotyle bonariensis*), broomsedge bluestem (*Andropogon virginicus*), longleaf pine (*Pinus palustris*), rose natal grass (*Melinis repens*), johnson grass (*Sorghum halepense*), ceasars weed (*Urena lobtata*), horseweed (*Erigeron canadensis*), poison ivy (*Toxicodendron radicans*), Virginia creeper (*Parthenocissus quinquefolia*), cogon grass (*Imperata cylindrica),* ragweed (*Ambrosia*), and tropical girdlepod (*Mitracarpus hirtus*).

FLUCCS 190 – Open Land

This upland habitat was previously an abandoned orange grove that has been cleared and now is open disturbed land with various weeds, wildflowers and grasses. No canopy and/or midstory species area present. Groundcover species include: beggarticks (*Bidens alba*), ragweed (*Ambrosia*), American black nightshade (*Solanum americanum*), dallis grass (*Paspalum dilatatum*), horseweed (*Erigeron canadensis),* Carolina cranesbill *(Geranium carolinianum),* smut grass (*Sporobolus indicus*), cogon grass (*Imperata cylindrica),* broomsedge (*Andropogon virginicus*), turkey tangle frogfruit (*Phyla nodiflora*), and manyflower marsh pennywort (*Hydrocotyle umbellate*).

FLUCCS 525 – Stormwater Management Area

Canopy species present include: Mexican primrose-willow (*Ludwigia octovalvis*) and Brazilian peppertree (*Schinus terebinthifolia*). Midstory and groundcover species present include: muscadine (*Vitis rotundifolia*), manyflower marsh pennywort (*Hydrocotyle umbellate),* and Broadleaf cattail (*Typha latifolia*).

FLUCCS 160 – Extractive – Burrow Area

This habitat has a canopy of coastal plain willow (*Salix caroliniana*) and groundsel tree (*Baccharis halimifolia).* Midstory and groundcover species present include: broadleaf cattail (*Typha latifolia*), climbing hempvine (*Mikania scandens*), largeleaf pennywort (*Hydrocotyle bonariensis*), manyflower marsh pennywort (*Hydrocotyle umbellate*) and sweetscent (*Pluchea odorata*).

FLUCCS 510D – Ditch

These man-made ditches have a canopy of coastal plain willow (*Salix caroliniana).* Groundcover species present include: manyflower marsh pennywort (*Hydrocotyle umbellate),* tall flatsedge (*Cyperus eragrostis*), and feathered mosquito fern (*Azolla pinnata*).

FLUCCS 241 – Tree Nursery

This upland habitat has been cleared of all native vegetation and is being prepped to be a tree nursery. No significant vegetation was found on-site during the transect survey.

FLUCCS 749 – Spoil Areas

This upland habitat has been cleared of all native vegetation and is being used to hold a large pile of shredded wood mulch. No significant vegetation was found on-site during the transect survey around the spoil area.

FLUCCS 414 – Pine Mesic Oak

This upland habitat borders the wetland (FLUCCS 625) and is part of a wetland-upland transition zone. This area may have soil saturation or inundation during the wet part of the year, as well as dry conditionals at other times. Canopy species include: slash pine (*Pinus elliottii*), southern live oak (*Quercus virginiana*), willow oak (*Quercus phellos*), southern wax myrtle (*Myrica cerifera*), sabal palm (*Sabal palmetto*), and loblolly pine (*Pinus taeda*). Midstory and groundcover species present include: saw palmetto (*Serenoa repens*), muscadine (*Vitis rotundifolia*), American beautyberry (*Callicarpa americana),* earleaf greenbrier (*Smilax auriculata*), ball moss (*Tillandsia recurvata*), elephants foot (*Elephantopus*), bushy bluestem (*Andropogon glomeratus*), darrow's blueberry (*Vaccinium darrowii*), lemon grass (*Cymbopogon citratus*), gopher apple (*Geobalanus oblongifolius*), St. Anderew's cross (*Hypericum hypericoides*), pale meadow beauty (*Rhexia mariana*), wild pennyroyal (*Piloblephis rigida*), bog yellow-eyed grass (*Xyris difformis*), and narrowleaf silkgrass (*Pityopsis graminifolia*).

FLUCCS 625 – Hydric Pine Flatwoods

This wetland has a canopy comprised of: southern wax myrtle (*Myrica cerifera*), punk tree (*Melaleuca quinquenervia*), slash pine (*Pinus elliottii*), and water oak (*Quercus nigra).* Groundcover and midstory species present include: broomsedge bluestem (*Andropogon virginicus*), sweetscent (*Pluchea odorata*), marsh seedbox (*Ludwigia palustris*), giant leather fern (*Woodwardia virginica)*, common buttonbush (*Cephalanthus occidentalis*), Asiatic pennywort (*Centella asiatica*), camphorweed (*Heterotheca subaxillaris*), johnson grass (*Sorghum halepense*), bahia grass (*Paspalum notatum*) and Virginia chainfern (*Woodwardia virginica).*

FLUCCS 8145 – Roads, Graded and Drained

This upland area has been cleared of all native vegetation and is being used as a gravel roadway for trucks and construction vehicles to have access to different parts of the property. No significant vegetation was found on-site during the transect survey.

FLUCCS 436 – Upland Scrub, Pine and Hardwoods

This upland habitat has been distrubed. Canopy species include: slash pine (*Pinus elliottii*) and Brazilian peppertree (*Schinus terebinthifolia*). Midstory and groundcover species present include: Ceasars weed (*Urena Lobata*), tropical girdlepod (*Mitracarpus hirtus*), broomsedge (*Andropogon virginicus*), ragweed (*Ambrosia*), muscadine (*Vitis rotundifolia*) and cogon grass (*Imperata cylindrica).*

Survey Method

To provide approximately 80 percent coverage of the site, a linear and non-linear overlapping transects were completed along the subject property, per FWC guidelines. Transects were spaced approximately 10-50 feet apart depending on the visibility within the vegetative association being surveyed. Evidence of protected species was gathered through, not only direct observation, but also through observation of signs such as fecal matter, tracks, nests, and burrows. If evidence of utilization by a protected species, an arial photograph was marked depicting the approximate location. In addition, a search through the available online resources was conducted to reveal the previously documented protected species which may be utilizing the subject property. These resources included but were not limited to, the following: FWS Florida Panther Consultation Area Map, FWS Florida Bonneted Bat Consultation Area Map, FWS Crested Caracara Consultation Area Map, FWS Red-Cockaded Woodpecker Consultation Area Map, FWS Wood Stork Colony Map, and FWC Historical Bald Eagle Nesting Areas Map.

Survey Results

According to the FWC and Audubon Bald Eagles (*Haliaeetus leucocephalus*) Nest Locators Map, one bald eagles' nest (ID CH028) has been documented approximately 1.79 ± miles of the subject property. The nest was unmonitored by the Audubon EagleWatch Program from the nesting season, and the nest status is unknown for the 2024 nesting season. The ID status is permanent and the pair has no alternate nest(s). Under current federal guidelines, eagles' nests are allotted a 330'primary protection zone and 660' secondary protection zone. Any development within the 330' primary protection zone would require a permit from the FWS along with compensatory mitigation. Construction within the 660' protection zone would require a bald eagle management plan and nest monitoring during the nesting season. (October 1-May 31). However, due to the secluded status of the proximal eagles' nest (>660'), relative to the proposed project area, coordination with the FWS will not likely be required prior to development of the subject parcel. If future development of the subject parcel requires federal authorizations, consultation with the FWS will be required and will likely entail additional permitting and protection measures relative to the bald eagle.

Search of available online resources revealed that the subject property is located within the Consultation Area of the Florida Panther (*Puma concolor coryi*). No evidence of utilization by the Florida panther was observed onsite during the April 2025 site inspection. Some areas of the subject site provided suitable habitat for the Florida panther, however, due to the surrounding

landscape being significantly altered, the panther's ability to use adjacent areas for dispersal areas are unlikely. If future development of the subject property requires any federal authorizations and/or permits, consultation with the FWS may be triggered, requiring systematic project review and approval by the FWS prior to development of the property.

Search of available online resources revealed that the subject property is within 6.0 ± miles of documented wood stork colonies designed as a Core Foraging Area for wood stork (*Mycteria americana*). Under current regulations, the proximity of the off-site nesting colonies (Morganton South) is not likely to affect the future development of the subject property. However, any impacts to suitable on-site wood stork foraging habitat (wetland or surface water habitat) may require systematic review and approval by FWS prior to such impacts.

Search of available online resources revealed that the subject property is located within the Consultation Area of the red-cockaded woodpecker (*Picoides borealis*). The nearest documented red-cockaded woodpecker observation locations are approximately 0.01 ± miles of the subject property located at Babcock Webb Wildlife Management Area. No evidence of utilization by the red-cockaded woodpecker was observed onsite during the April 2025 site inspection. Considering the lack of "ideal" red-cockaded woodpecker habitat within the subject property, in conjunction with no observed evidence of site utilization by the species, the red-cockaded woodpecker is not likely to affect the future development of the subject property. However, applicable environmental regulatory agencies may require a species-specific survey relative to the red-cockaded woodpecker prior to development of the property.

Search of available online resources revealed that the subject property is located within the Consultation Area of the crested caracara (*Caracara cheriway*). No evidence of utilization by the crested caracara was observed onsite during the April 2025 site inspections. Considering the lack of "typical" caracara nesting habitat within the subject property, in conjunction with no observed evidence of site utilization by the species, the crested caracara is not likely to affect the future development of the subject property. However, applicable environmental regulatory agencies may require a species-specific survey relative to the crested caracara prior to development of the property.

Search of available online resources revealed the subject property is located within the Florida Bonneted Bat *(Eumops floridanus*) FWS Consultation Area. No evidence of utilization by the Florida bonneted bat was observed on-site during the pedestrian transect survey. However, if future development of the subject parcel requires federal authorizations or permitting, consultation with the FWS might be mandatory, requiring project review and approval prior to development.

The subject site contains upland habitats which are being utilized by the gopher tortoise (*Gopherus polyphemus*). One (1) potentially-occupied gopher tortoise burrow were observed on the parcel. This burrow was found in the FLUCCS 414, where it is high and dry. A 100% gopher tortoise survey and the appropriate permitting from the Florida Fish and Wildlife Conservation Commission will be required prior to

development of the site if gopher tortoise burrows cannot be avoided during construction. Please refer to the FLUCCS map for the approximate locations of the burrows.

Conclusion

Wetlands were identified on the subject property (FLUCCS 625) during the site assessment. This wetland meets the criteria established by federal, state and local regulatory agencies and will require appropriate permitting and mitigation measures prior to any proposed development. Further coordination with the relevant environmental authorities will be necessary to ensure compliance with applicable regulations, should proposed development happen.

Wildlife observations were made on the subject property utilizing the on-site man-made ditches (FLUCCS 510D), open land (FLUCCS 190), burrow areas (FLUCCS 160), and hydric pine flatwoods (FLUCCS 625). Species sightings include: anhinga (*Anhinga anhinga*), sandhill crane (*Grus canadensis*), great blue heron (*Ardea Herodias*), great egret (*Ardea alba*), and little blue heron (*Egretta caerulea*).

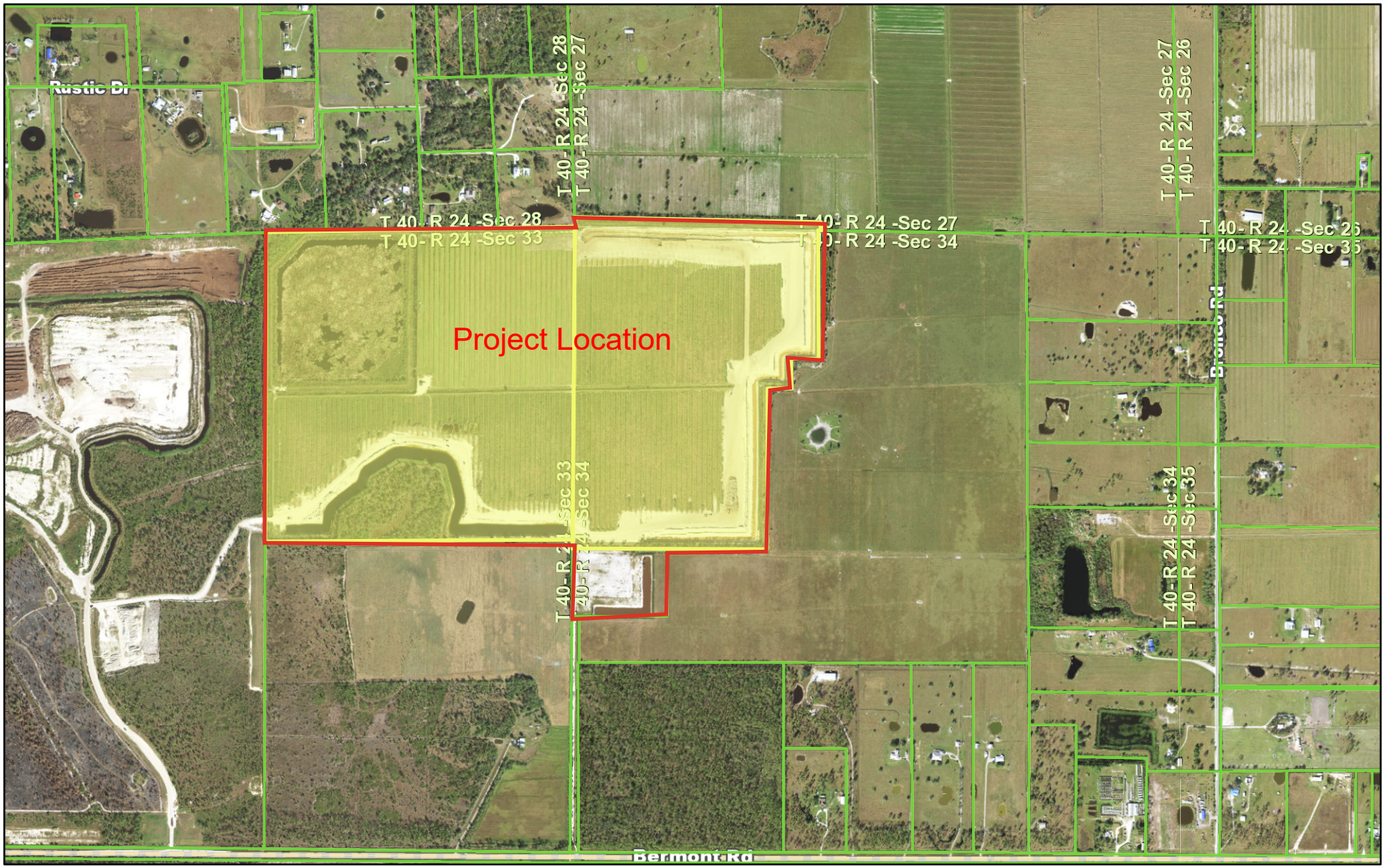
Sincerely,

Lynlee May

Southwest Engineering and Design

Environmental Specialist, Authorized Gopher Tortoise Agent

Project Location Map,33150 Bermont Road, Punta Gorda



April 11, 2025

Override 1

Property Ownership

City of Punta Gorda Boundary

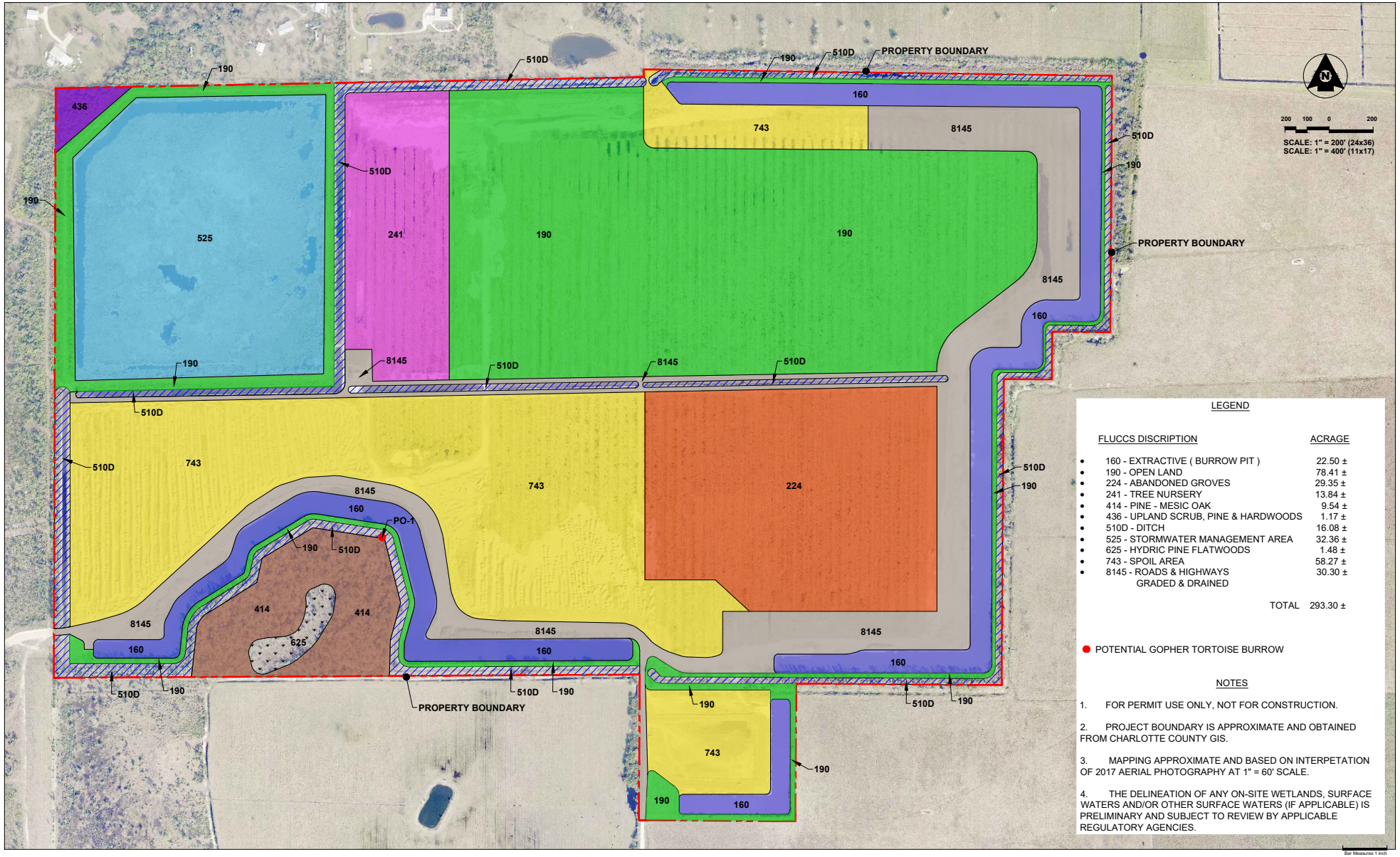
1:16,000

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

Charlotte County, Charlotte County GIS

Charlotte County GIS



4/15/2025 10:34:32 AM - P:\13-0191.04 - WATERSIDE EAST EXCAVATION\DESIGN\CADD\SPECIAL DRAWINGS\FLUCCS MAP - NEW.DWG - RONALD GARABRANDT

SED Southwest Engineering & Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
www.sedfl.com
Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

WATERSIDE RESTORATION

FLUCCS MAP

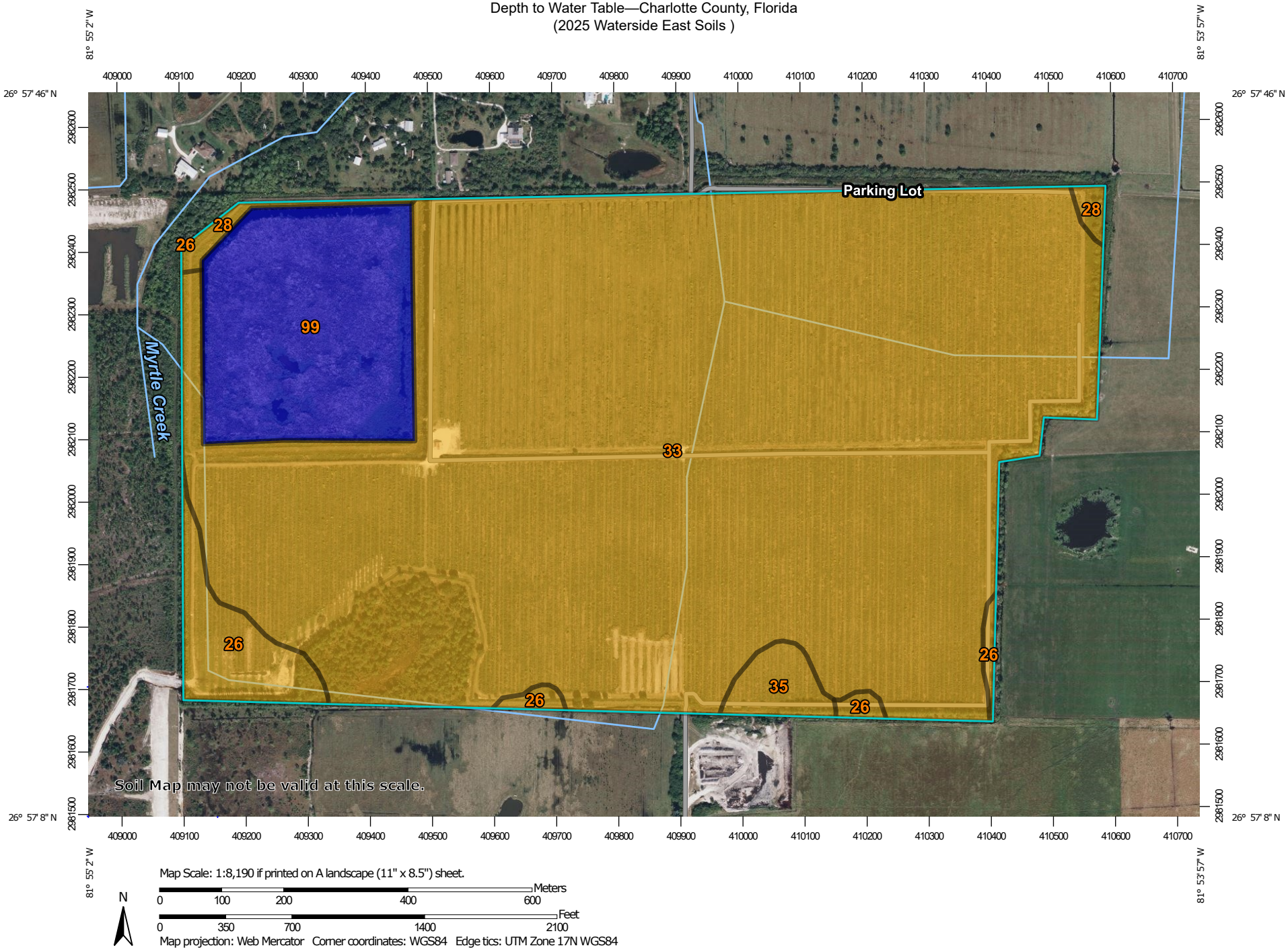
CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

Gary W. Bayne, P.E.
State of Florida, Professional Engineer
License No. 62474
This item has been digitally signed and sealed by: Gary W. Bayne, P.E.
on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DATE: APR 2025
DATUM:
PROJECT No.: 13-0191.04
SHEET: 1

Bar Measures 1 Inch

Depth to Water Table—Charlotte County, Florida
(2025 Waterside East Soils)



Map Scale: 1:8,190 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 350 700 1400 2100

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

MAP LEGEND

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

Soils

Soil Rating Polygons
- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines
- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points
- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

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

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

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

Soil Survey Area: Charlotte County, Florida
Survey Area Data: Version 23, Aug 20, 2024

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

Date(s) aerial images were photographed: Nov 14, 2021—Nov 23, 2021

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

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
26	Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	30	10.3	3.6%
28	Immokalee sand, 0 to 2 percent slopes	31	2.5	0.9%
33	Oldsmar sand, 0 to 2 percent slopes	30	236.8	83.3%
35	Wabasso sand, 0 to 2 percent slopes	31	3.7	1.3%
99	Water	>200	30.9	10.9%
Totals for Area of Interest			**284.2**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

FLORIDA DEPARTMENT OF
Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

March 12, 2021

Waterside Recycling, LLC
Gary W. Bayne, P.E.
660 Charlotte Street, Suite 8
Punta Gorda, FL 33950
gbayne@sedfl.com

RE: Notice of Use of General Permit
Waterside Lake Excavation, Charlotte County
WACS Number.: 102591
Permit Number: 328814-003-SO/E26

Dear Mr. Bayne,

In response to your request, this letter is to advise you that on March 04, 2021, the Department has received your Notice of Intent to Use a General Permit as provided in Rule 62-701.803 for the General Permit for Off-Site Disposal of Yard Trash and does not object to your use of such general permit. Coverage under this permit will expire on Mach 11, 2026. Please be advised that you are required to abide by all conditions in Rules 62-4.510 through 62-4.540, Florida Administrative Code, the general requirements for general permits; and Rule 62-701.803, Florida Administrative Code.

Sincerely,

Nolin Moon

Environmental Administrator

Attached:
General Permit
General Requirements for General Permits

Copies furnished to:
Christine Scaletta, c.scaletta@sedfl.com

62-701.803 General Permit for Off-site Disposal of Yard Trash.

(1) Notification. Notwithstanding the provisions of Rule 62-701.730, F.A.C., facilities that accept for disposal only yard trash may operate under a general permit pursuant to Part III of Rule 62-4, F.A.C., and this section. For purposes of this section, yard trash includes land clearing debris and unpainted, nontreated wood scraps and wood pallets that meet the definition of construction and demolition debris. The owner or operator of the yard trash disposal facility shall notify the Department in writing of the intent to use this general permit on Form 62-701.900(3), Notification of Intent to Use a General Permit for a Yard Trash Disposal Facility, http://www.flrules.org/Gateway/reference.asp?No=Ref-01483, effective date August, 2012, hereby adopted and incorporated by reference. Copies of this form are available from a local District Office or by writing to the Department of Environmental Protection, Solid Waste Section, MS 4565, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Owners or operators of solid waste management facilities which have a permit under Chapter 62-701, F.A.C., to receive yard trash are exempt from this requirement. The notification shall include:

(a) A site plan, of a scale not greater than 200 feet to the inch, that shows the project location and identifies the proposed disposal areas, total acreage of the site and of the proposed disposal area, and any other relevant features such as water bodies, wetlands, or potable water wells within 100 feet of the site;

(b) Identification of ground water levels at the site, including the seasonal high ground water level if known;

(c) A general description of the facility operations, including equipment and personnel planned for the operation and closure of the facility, and a training plan which complies with the requirements of subsection 62-701.320(15), F.A.C.;

(d) A boundary survey and legal description, of the property;

(e) The planned active life of the facility, and the design height of the facility;

(f) Closure plans and cross section details of the final cover;

(g) The mailing address and phone number of the owner and operator; and

(h) Documentation that the applicant either owns the land or has legal authorization from the landowner to use the land for a disposal facility.

(2) Other requirements.

(a) The requirements of Rules 62-701.330 through 62-701.630, F.A.C., do not apply to yard trash disposal facilities, provided that none of the prohibitions contained in Rule 62-701.300, F.A.C., shall be violated.

(b) The owner or operator shall construct the facility only in accordance with the site plan submitted with the notification.

(c) The owner or operator shall operate the facility only in accordance with the descriptions and plans submitted with the notification.

(d) The external slopes of all disposal units shall be no greater than three feet horizontal to one foot vertical rise. The working face and internal slopes of all disposal units shall not be greater than three feet horizontal to one foot vertical rise unless reasonable assurance is provided in the notification that fires can be controlled in steeply sloped areas.

(e) The facility shall be operated to control objectionable odors in accordance with subsection 62-296.320(2), F.A.C. If objectionable odors are detected off-site, the owner or operator shall comply with the requirements of paragraph 62-701.530(3)(b), F.A.C.

(3) Temporary storage. The owner or operator shall make arrangements or shall have equipment for temporary storage, handling and transport to an authorized disposal or recycling facility for solid waste, other than yard trash, that is inadvertently accepted by the facility. Such solid waste that is accepted by the facility shall be segregated and disposed of in accordance with Department rules. Unless an alternate

schedule is included in an operation plan submitted with the permit application, which provides for the control of odors and vectors, putrescible waste shall not be stored for longer than 48 hours and non-putrescible waste shall not be stored for longer than 30 days. Any hazardous waste that is received by the facility shall be managed in accordance with the provisions of Chapter 62-730, F.A.C.

(4) Compaction. Yard trash shall be compacted and sloped as necessary to assure that the requirements of subsection (8) of this section can be met.

(5) Access. Access to the disposal facility shall be controlled during the active life of the facility by fencing or other effective barriers to prevent disposal of solid waste other than yard trash.

(6) Inspection of waste. At least one spotter shall be on duty at the working face at all times that the site is operating to inspect the incoming waste. Any material other than yard trash shall be removed from the waste stream and placed into appropriate containers for disposal at a permitted facility. Spotters shall be trained in accordance with subsection 62-701.320(15), F.A.C.

(7) Inspections. Operation of a facility under a general permit constitutes consent for Department personnel to inspect the site and such records as are required by this section during normal business hours for compliance with Department rules.

(8) Closure. Final cover and seeding or planting of vegetative cover shall be placed on each disposal unit within 180 days after final receipt of wastes. Final cover shall consist of a 24-inch-thick soil layer, the upper six inches of which shall be capable of supporting vegetation and shall be graded to eliminate ponding, promote drainage, and minimize erosion. The side slopes of all above-grade disposal areas shall be no greater than three feet horizontal to one foot vertical rise.

(9) Notification of closure. The owner or operator shall notify the Department within 30 days after closing, covering, and seeding the facility as required in subsection (8) of this section.

(10) Incineration. A facility that employs an air curtain incinerator and that also stores or disposes of yard trash at the site shall meet the permitting requirements of Rule 62-256.500, F.A.C., as well as this section.

(11) A general permit issued under this section shall be valid for five years.

Rulemaking Authority 403.704, 403.707, 403.814 FS. Law Implemented 403.707, 403.814 FS. History–New 8-2-89, Amended 1-6-93, 1-2-94, 5-19-94, Formerly 17-701.803, Amended 12-23-96, 4-23-97, 5-27-01, 1-6-10, 8-12-12

62-4.510 Scope of Part III.

This Part defines general permits and establishes the procedures for persons who may wish to use a general permit, except that the procedures for any person who may wish to use a general permit for a source of air pollutant emissions, and all conditions of such a general permit, are established at Chapters 62-210 and 62-213, F.A.C. The provisions of this Part shall not apply to activities regulated under Part IV of Chapter 373, F.S. However, this Part shall continue to apply to those activities grandfathered under Sections 373.414(11), (12)(a), (13), (14), (15), (16) and 373.4145(6), F.S.

Rulemaking Authority 373.026, 373.043, 373.044, 373.109, 373.113, 373.4145, 373.418, 403.021, 403.031, 403.061, 403.087, 403.814(1) FS. Law Implemented 373.026, 373.044, 373.109, 373.409, 373.413, 373.4135, 373.414(9), (11), (12)(a), (13), (14), (15), (16), 373.4145, 373.418, 403.021, 403.031, 403.061, 403.087, 403.088, 403.814, 403.702-.73, 403.851-.864 FS. History–New 7-8-82, Formerly 17-4.51, Amended 8-31-88, Formerly 17-4.510, Amended 4-18-95, 7-4-95, 10-16-95, 4-16-01, 10-1-07.

62-4.520 Definition.

A general permit is a permit issued by rule of the Department pursuant to Section 403.814, F.S., which authorizes persons to undertake certain activities which cause minimal adverse environmental impact when performed in accordance with specific requirements and practices set forth in the general permit. A general permit also constitutes water quality certification pursuant to Section 401, Public Law 92-500, 33 USC Section 1341, for the activity described in the general permit when the activity is performed in accordance with all applicable rules of the Department.

Rulemaking Authority 403.814 FS. Law Implemented 403.061, 403.087, 403.088, 403.814, 403.702-.73, 403.851-.864, 403.91-.938 FS. History–New 7-8-82, Formerly 17-4.52, Amended 8-31-88, 7-11-90, Formerly 17-4.520.

62-4.530 Procedures.

(1) Persons wishing to use one or more of the general permits set forth in the Department's rules shall, at least 30 days before beginning any work, notify the Department in writing or on forms adopted by the department. They shall describe the proposed project, and include supporting documents depicting the proposed project, its location, and other pertinent information as required by rule to demonstrate that they qualify for the requested general permit. Persons wishing to use a general permit shall notify the appropriate office of the Department in writing. Persons wishing to use a general permit are hereby placed on notice that projects undertaken without proof of notice to the Department shall be considered as being undertaken without a permit and shall be subject to enforcement pursuant to Section 403.161, F.S.

(2) A proposed project which may be reasonably expected to violate air quality standards, water quality standards, or drinking water standards or which will not meet the public interest requirements set forth in Chapter 403, F.S., shall not be entitled to use of a general permit.

(3) Pursuant to Section 258.397, F.S., no project which is located in the Biscayne Bay Aquatic Preserve is eligible for a general permit.

(4) Suspension or revocation of the use of a general permit shall be in accordance with Chapter 120, F.S. Good cause for the suspension or revocation shall include:

(a) Submission of false or inaccurate information in the notification for use of a general permit or in the required reports;

(b) Violation of law, Department orders, rules or permit conditions;

(c) Refusal of lawful inspection under Section 403.091, F.S.; or

(d) Any other act on the part of the permittee in the use of the general permit which results or may result in harm or injury to human health or welfare, or which causes harm or injury to animal, plant or aquatic life, or to property.

(5) Unless otherwise required as part of a specific category of general permit, persons qualifying for the use of a general permit are not required to, but may, publish in a newspaper of general circulation in the area affected by the proposed project a notice of intent to use a general permit. The notice, if published, shall follow substantially the format in Rule 62-103.150, F.A.C., and shall be published within 14 days of the date when the department receives notification pursuant to subsection 62-4.530(1), F.A.C. No person who has published notice shall begin work until after the 21 days for requesting a hearing has passed or a hearing is held and a decision is rendered.

(6) Any person complying with the requirements of a general permit may use the permit 30 days after giving notice to the Department without any agency action. When no agency action is taken, unless the Department or the applicant publishes notice of the application, the provisions of Chapter 120, F.S., granting to affected parties the right to an administrative hearing do not apply.

Rulemaking Authority 403.814(1) FS. Law Implemented 258.397, 403.061, 403.087, 403.088, 403.702-.73, 403.814, 403.851-.864 FS. History–New 7-8-82, Amended 6-16-84, Formerly 17-4.53, Amended 8-31-88, 3-19-90, Formerly 17-4.530.

62-4.540 General Conditions for All General Permits.

(1) The terms, conditions, requirements, limitations, and restrictions set forth in this Part are "general permit conditions" and are binding upon the permittee. The conditions are enforceable under Chapter 403, F.S.

(2) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit. The permittee is placed on notice that violation of the permit may result in suspension or revocation of the permittee's use of the general permit and may cause the Department to begin legal proceedings.

(3) The general permit does not convey any vested rights or any exclusive privileges. It does not authorize any injury to public or private property nor any invasion of personal rights. It does not authorize any infringement of federal, state or local laws or regulations. It does not eliminate the necessity for obtaining any other federal, state or local permits that may be required, or allow the permittee to violate any more stringent standards established by federal or local law.

(4) The general permit does not relieve the permittee from liability and penalties when the construction or operation of the permitted activity causes harm or injury to human health or welfare; causes harm or injury to animal, plant or aquatic life; or causes harm or injury to property. It does not allow the permittee to cause pollution in contravention of Florida Statutes and Department rules.

(5) The general permit conveys no title to land or water, nor does it constitute State recognition or acknowledgment of title. It does not constitute authority for reclamation of submerged lands. Only the Board of Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

(6) No general permit shall authorize the use of state owned land without the prior consent of the Board of Trustees of the Internal Improvement Trust Fund pursuant to Section 253.77, F.S.

(7) The general permit may be modified, suspended or revoked in accordance with Chapter 120, F.S., if the Secretary determines that there has been a violation of any of the terms or conditions of the permit, there has been a violation of state water quality standards or state air quality standards, or the permittee has submitted false, incomplete or inaccurate data or information.

(8) The general permit shall not be transferred to a third party except pursuant to Rule 62-4.120, F.A.C.

(9) The general permit authorizes construction and, where applicable, operation of the permitted facility.

(10) The permittee agrees in using the general permit to make every reasonable effort to conduct the specific activity or construction authorized by the general permit in a manner that will minimize any adverse effects on the adjacent property or on public use of the adjacent property, where applicable, and on the environment, including fish, wildlife, natural resources of the area, water quality or air quality.

(11) The permittee agrees in using the general permit to allow a duly authorized representative of the

Department access to the permitted facility or activity at reasonable times to inspect and test upon presentation of credentials or other documents as may be required by law to determine compliance with the permit and the department rules.

(12) The permittee agrees to maintain any permitted facility, or activity in good condition and in accordance with the plans submitted to the department under subsection 62-4.530(1), F.A.C.

(13) A permittee's use of a general permit is limited to five years. However, the permittee may request continued use of the general permit by notifying the department pursuant to subsection 62-4.530(1), F.A.C. However, the permittee shall give notice of continued use of a general permit thirty days before it expires.

Rulemaking Authority 403.814(1) FS. Law Implemented 253.123, 253.124, 403.061, 403.087, 403.088, 403.702-.73, 403.814, 403.851-.864 FS. History–New 7-8-82, Formerly 17-4.54, Amended 8-31-88, Formerly 17-4.540.

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

August 9, 2024

Gary W. Bayne
Waterside Recycling, LLC
25450 Airport Road Suite B
Punta Gorda, FL 33950

Dear Gary W. Bayne:

Your registration application for Waterside Lake Excavation, located at 32030 Bermont Road, Punta Gorda, in Charlotte County has been received. The application indicated this facility is operating as a:

- [X] Yard Trash Transfer Station
- [X] Yard Trash Recycling Facility
- [ ] Manure Blending Operation
- [ ] Vegetative, Animal Byproducts or Manure Composting Facility

And processing the following:

- [X] Yard Trash (including clean wood)
- [ ] Manure
- [ ] Animal byproducts (composting)
- [ ] Vegetative wastes (composting)
- [ ] Pre-consumer vegetative (composting)

The registration application is complete, and is valid until August 1, 2025. The WACS identification number for this facility is 00102591. The receipt number for the registration fee you paid is 281379.

You must comply with the requirements specified in Rule 62-709.320, and Rules 62-709.330 or 62-709.350, Florida Administrative Code (F.A.C.), in order to maintain qualification for the registration program. A summary of the operating requirements is enclosed.

If you need further information, please contact the Division of Waste Management, Waste Registration Section at the above address, Mail Station 4550, phone 850-245-8707 or email Waste.Registration@dep.state.fl.us.

Sincerely,



Lauren O'Connor
Waste Registration Section

Enclosure

cc: Ryan Snyder, South District

Requirements for source-separated organics facilities qualifying for registration - Chapter 62-709, F.A.C.

Rule/Referenced Rule	Provision
Specific to all	
62-709.300(7)(a)	No person shall cause or allow objectionable odor in violation of Chapter 62-296, F.A.C.
62-709.300(7)(b)	Rule 62-701.300, and subsection 62-701.320(13) apply to facilities regulated under 62-709.
62-701.300(1)(b)	Stored or processed in a way or location that does not violate air quality or water quality standards.
62-701.300(2)(a)	Geological formations or subsurface features must provide support for the facility
62-701.300(2)(c)	Not in a dewatered pit unless permanent leachate containment and special design techniques used.
62-701.300(2)(d)	Not in any natural or artificial water body(e.g., ground water and wetlands within DEP jurisdiction).
62-701.300(2)(f)	Not be placed on the right of way of any public highway, road, or alley.
62-701.300(3)	No open burning in the recycling area of the facility and controlled burning complies with DEP rules.
62-701.300(14)	No CCA treated wood in material applied as a ground cover, soil or soil amendment.
62-701.300(15)	No unconfined emissions of particulate matter in violation of paragraph 62-296.320(4)(c), F.A.C.
62-709.320(2)(a)	Have the necessary operational features and equipment - unless otherwise specified, including
62-709.320(2)(a)1.	effective barrier to prevent unauthorized entry and dumping
62-709.320(2)(a)2.	Dust and litter control methods
62-709.320(2)(a)3.	Fire protection and control provisions to deal with accidental burning of solid waste, including
62-709.320(2)(a)3.a.	20-foot all-weather access road all around the perimeter
62-709.320(2)(a)3.b.	No material shall be mechanically compacted
62-709.320(2)(a)3.c.	No material shall be more than 50 feet from access by motorized firefighting equipment
62-709.320(2)(b)	Operate in a manner to control vectors
62-709.320(2)(c)	Operate in a manner to control objectionable odors per with Rule 62-296.320(2), F.A.C.
62-709.320(2)(d)	Keep any installed drains and leachate or condensate conveyances cleaned
62-709.320(2)(e)	Process received solid waste timely as follows
62-709.320(2)(e)1.	Size-reduce or remove yard trash within 6 months or time needed to receive 3,000 tons or 12,000 cubic yards, whichever is greater. Separated logs with 6 inch diameter or greater can be stored for up to 12 months before being size-reduced or removed.
62-709.320(2)(e)2.	Putrescible waste (e.g., vegetative wastes, animal byproducts or manure) shall be processed and incorporated into the composting material, or removed from the facility, within 48 hours.
62-709.320(2)(f)	Containerized and removed immediately any treated or untreated biomedical waste; hazardous waste; or any materials having (PCB) concentration of 50 ppm or greater.
62-709.320(2)(g)	All residuals, solid waste and recyclable materials removed and recycled or disposed upon ceasing operations. Any remaining processed material shall be properly used or disposed.
62-709.320(4)(a)	Keep monthly records of incoming and outgoing material for at least three years..
62-709.320(4)(b)	If temperature used to show disinfection or vector attraction achieved, keep records for 3 years.

Specific to yard trash only facilities	
62-709.300(7)(b)	Rule 62-701.300, and subsection 62-701.320(13) apply to facilities regulated under 62-709.
62-701.300(12)(a)	At least 100 feet from off-site potable water well that existed before facility registered.
62-701.300(12)(b)	At least 50 feet from any body of water, including wetlands. Not including parts of permitted stormwater system, or water bodies totally within facility with no discharge to surface waters.
62-709.330(2)	Processed material gone from facility within 18 months, unless longer storage authorized by permit.
62-709.330(3)	Accept only yard trash, and bags used to collect yard trash. Containerized any other material

Specific to composting of vegetative wastes, animal byproducts or manure, or blending manure	
62-709.300(7)(b)	Rule 62-701.300, and subsection 62-701.320(13) apply to facilities regulated under 62-709.
62-701.300(2)(b)	Be more than 500 feet off-site potable water well that existed before facility registered
62-701.300(2)(e)	Within 200 feet from any body of water, including wetlands. Not including parts of permitted stormwater system, or water bodies totally within facility with no discharge to surface waters.
62-701.320(13)(b)	Not within 10,000 feet of any licensed and operating airport runway used by turbine powered aircraft, or within 5,000 feet of any licensed and operating airport runway used only by piston engine aircraft, unless applicant demonstrates that the facility is designed and will be operated so that it does not pose a bird hazard to aircraft.
62-709.350(2)	Carbon:nitrogen ratio of the blended feedstocks shall be greater than 20.
62-709.350(3)	Piles do not exceed 12 feet in height.
62-709.350(5)	All material removed within 18 months, unless longer storage authorized by permit.
62-709.350(6)	Show that disinfection achieved. not required if made from only pre-consumer vegetative waste
62-709.350(7)	Vector attraction reduction controls shall include either (a) or (b) below:
62-709.350(7)(a)	Composted for at least 14 days, with temperature no lower than 40 degrees Celsius and average temperature of the material being composted higher than 45 degrees Celsius; or
62-709.350(7)(b)	Specific oxygen uptake rate (SOUR) for material being composted or blended shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius

NATIVE HABITAT MANAGEMENT PLAN AND WETLAND CLASSIFICATION REPORT

Section 27, Township 40S, Range 24E

Charlotte County Parcel ID's:

402434100001, 402433200001, 402433100001

Waterside

Charlotte County, Florida

April 2025

Prepared for:

Southwest Engineering and Design

25450 Airport Road, Suite B

Punta Gorda, FL 33950

Prepared by:

Lynlee May

Environmental Specialist

25450 Airport Road, Suite B

Punta Gorda, FL 33950

(941) 637-9655

Introduction

The following plan has been prepared for the proposed 298 ± acre project site located at 33150 Bermont Road in Punta Gorda, Florida. The property is located in Section 27, Township 40S and Range 24E in Charlotte County. More specifically, the site is located east of Swaying Plam Drive, north of Bermont Road, west of Bronco Road and south of Washington Loop Road.

This plan outlines the long-term management strategy for the wetland and upland preservation areas within the proposed development. Additionally, the on-site wetland has been classified in accordance with Charlotte County Comprehensive Plan Natural Resources Element Policy ENV 3.1.1 – Identification and Categorization of Wetlands.

Wetland Description

During the on-site inspection in April 2025, the subject wetland is categorized as a Hydric Pine Flatwoods (FLUCCS 625) Plant species present were broomsedge bluestem (*Andropogon virginicus*), sweetscent (*Pluchea odorata*), marsh seedbox (*Ludwigia palustris*), giant leather fern (*Woodwardia virginica)*, water oak (*Quercus nigra*), common buttonbush (*Cephalanthus occidentalis*), slash pine (*Pinus elliottii*), Asiatic pennywort (*Centella asiatica*), and southern wax myrtle (*Myrica cerifera*). Invasive plant species are also present in the wetland area, including: punk tree (*Melaleuca quinquenervia*), camphorweed (*Heterotheca subaxillaris*), johnson grass (*Sorghum halepense*), bahia grass (*Paspalum notatum*) and Virginia chainfern (*Woodwardia virginica).* The on-site wetland would be considered a Category II wetland of the Charlotte County Comprehensive Plan Environmental Policy 3.1.3: Wetland Categories.

Wildlife Habitat Enhancement

Native vegetation should be planted in order to provide food, cover and breeding areas. Layered vegetation should be created (ground cover, shrubs, canopy trees) in order to support diverse wildlife use. Any deadwood (snags) should be preserved in order to support cavity-nesting birds and insects. Wildlife monitoring will take place in order to track species diversity and habitat use. Heavy evidence of wild boar (*Sus scrofa*) was located on-site. Box or cage traps should be utilized on-site to protect native plants from being uprooted.

Preserve Establishment and Maintenance Schedule

Exotics should be controlled by implementing specific techniques to prevent reinvasion of prohibited exotic and nuisance vegetation of the subject site on a yearly basis. Non-native and nuisance or invasive plants shall be removed from the preserve area. All existing native trees located within the preserve area will be preserved and shall not be impacted during any of the exotic eradication efforts. Should any native trees die as a result of the surrounding exotic treatment, they will be replaced with a similar tree in like size. Following the initial removal of

exotics, the establishment of the preserve maintenance will occur annually; all native vegetation will be required to be maintained in perpetuity.

Exotic Plan Eradication and Nuisance Treatment

The goal of this plan is to maintain wetland free of exotic species while keeping nuisance plants at manageable levels through a structured maintenance program. This program consists of two phases: the initial removal of exotic species followed by ongoing annual maintenance.

The removal and maintenance program for exotic and nuisance plants is designed to preserve the viability, ecological value, and visual appeal of the wetland. Since exotic and nuisance plants often outcompete native species, they can diminish habitat quality and negatively affect the area's aesthetics. These plants will be eradicated using methods aligned with current best practices for exotic and nuisance plant removal.

Exotic and nuisance plants will be eradicated following approved removal practices, with all procedures conducted in accordance with current standards by a licensed herbicide applicator. Within the first 75 feet of the wetlands outer edge, all exotic vegetation must be physically removed, or the tree cut to grade with the stump treated. In the wetland's interior, in-place treatment may be permitted if physical removal would cause excessive damage to native vegetation.

If prohibited exotic vegetation is removed but the base remains, it must be treated with a U.S. Environmental Protection Agency-approved herbicide and marked with a visual tracer dye. All removed exotic vegetation must be transported off-site for disposal, with no stockpiling allowed within the wetland. Staging areas for debris removal will be located outside the wetland, with the specific location determined by the contractor.

Supplemental Plantings

Planting non-native vegetation on slopes adjacent to a wetland is prohibited; only 100% native vegetation may be planted in these areas. Additionally, no non-native vegetation is permitted within the wetland itself. At this time, no supplemental plantings are proposed.

The proposed mitigation areas will be improved through the removal of exotic species, followed by regular monitoring and maintenance for five years. After this period, ongoing management will focus on the continued removal of exotic species. If after two years certain areas do not naturally regenerate, a planting plan will be developed, specifying the species, size, and spacing needed to supplement these areas.

Vegetation Trimming & Control of Vines

The trimming of vegetation in the wetland area is prohibited except dead limbs, dead saw palmetto fronds, and dead palm fronds that are located within 20 feet of a property line may be removed. The control of vines is allowed in the preserve areas. This management activity includes both exotic and native vine species. In the wetland area portion of the preserve areas the stems of the vines must be cut and treated with an EPA approved herbicide. In the saw palmetto area of the preserve areas, locating the stem and removing both the root and vines while minimizing damage to the surrounding native vegetation will physically remove the vines.

Allowable Uses and Activities

Passive recreational activities, such as pervious nature trails or boardwalks, are allowed within preserve areas, provided that any necessary clearing does not reduce vegetation below the required minimum. For the purposes of this section, passive recreational uses refer to activities that allow limited access to the preserve without causing negative impacts, such as pervious pathways, benches, and educational signage.

Fencing may be installed outside the preserve to provide protection; however, fences and walls are not permitted within the preserve itself.

No buildings, structures, or obstructions of any kind may be constructed, placed, or allowed within the preserve areas. These areas must be maintained in their natural state and kept free of refuse and debris. Dumping or depositing soil a nd trash materials is strictly prohibited.

The removal or destruction of trees, shrubs, or other vegetation is not permitted, except for the removal of exotic and nuisance species. Excavation, dredging, or the extraction of soil, peat, rock, or other materials is prohibited if it alters the surface of the preserve. Additionally, dikes and fencing are not allowed within the preserve areas. The preserve must remain unaltered from its natural or approved condition.

Monitoring Plan

Monitoring Methodology

The proposed monitoring of the enhanced wetland preserve area will begin concurrently with construction and will consist of baseline, time-zero, and annual monitoring of vegetation, wildlife, rainfall, and wetland water levels. The baseline monitoring report will document conditions in the project site as they currently exist. The time-zero report will document the conditions immediately following completion of mitigation activities. The annual reports will document the extent of success of the project and, if needed, identify specific actions to be taken to improve the conditions within the project area.
Sampling transects and methodology for the baseline, time-zero, and annual reports will utilize identical methods of data collection from identical sampling stations.

Vegetation Monitoring

Wetland vegetation will be monitored prior to and following enhancement and restoration activities. Sampling in wetland area will involve canopy, sub-canopy, and ground cover species established within the preserve area. Species richness and a visual estimate of percent cover will be calculated for canopy and sub-canopy stratum.

Sampling point locations will be established in two locations within the preserve area. During each monitoring event, these areas will be walked and any exotic vegetation observed will be noted within the report. Vegetation will be sampled in each of the areas from where the monitoring photographs were taken; this vegetative sampling includes canopy, sub-canopy, and herbaceous strata.

Wildlife Monitoring

Regular observations of wildlife will be made during the monitoring event by qualified ecologists.

Observations will consist of recording evidence and signs of wildlife (i.e., direct sightings, vocalizations, burrows, nests, tracks, droppings, etc.).

Photographic Documentation

Photographs will be taken in the preserve area providing physical documentation of the condition and appearance of an area, as well as any changes taking place within it. Monitoring photographs will accompany vegetation data in each report. Photograph locations will remain the same throughout the duration of the monitoring program.

Rainfall Monitoring

Rainfall readings will also be recorded from an official rain gauge at a near-by location. These readings will be included in all future monitoring reports. Preserve water level data obtained concurrently with each monitoring event and will be included in their respective annual wetland mitigation monitoring reports.

Monitoring Reports

Concurrently with construction, the permittee will submit annual monitoring reports to the County documenting the success of the mitigation program and general condition of the preserve area. Within 45 days of permit issuance or modification, the baseline wetland monitoring for the preserve area will be submitted to the County. The time-zero monitoring report will be submitted within 30 days of completion of enhancement activities. Annual monitoring reports will include the following information:

- Brief description of mitigation and maintenance work performed since the previous report along with a discussion of any modifications to the mitigation or maintenance program.
- Brief description of anticipated mitigation and maintenance work to be conducted over the next year.
- Results of quantitative vegetation monitoring conducted in the preserved wetland area.
- A list of observed wildlife species.
- Monitoring photographs taken at the same location within the preserved wetlands area.
- Available local rainfall data.

If the assessment of the preserve areas demonstrates that the success criteria have been achieved, the responsible party shall provide written certification by an Environmental Scientist, Biologist, registered Engineer, or Landscape Architect that the maintenance efforts have met applicable success criteria. If certification of success is not submitted or is not approved by the County, then annual monitoring shall continue until the criteria has been met and deemed successful. The monitoring program and any corrective actions to maintain the preserve areas shall be at the sole expense of the property owner(s) or developer.

Wetland Classification

The Charlotte County Comprehensive Plan requires that all wetlands within a parcel under development review be categorized as either Category I or Category II wetlands. Further analysis is provided for impacts proposed to any wetlands which qualify as Category I. In order to qualify as a Category I wetland, a wetland must have no more than 30% undesirable vegetation, and meet at least two of the following criteria:

1. Any wetland of any size that has a permanent surface water connection to natural surface waterbodies with special water classifications, such as an Outstanding Florida Water, an Aquatic Preserve, or Class I or II waters. A natural hydrological connection that has been enhanced by human technology will be considered a connection under this category. *The on-site wetland does not meet this criterion. There is no off-site hydrologic connection for the on-site wetland. The wetland is confined on-site and located*

2. Any wetland of any size that has a direct connection to the Floridan aquifer by way of an open sinkhole or spring.
   The on-site wetland does not meet this criterion. There is no direct connection to the Floridian aquifer by way of an open sinkhole or spring.

3. Any wetland of any size that has functioning hydroperiods with minimal human disturbance and provides critical habitat for listed species.
   The on-site wetland does not meet this criterion. The wetland does not exhibit hydrology consistent with a natural hydrologic regime. It's an isolated wetland dominated by exotics located immediately adjacent to a wet ditch.

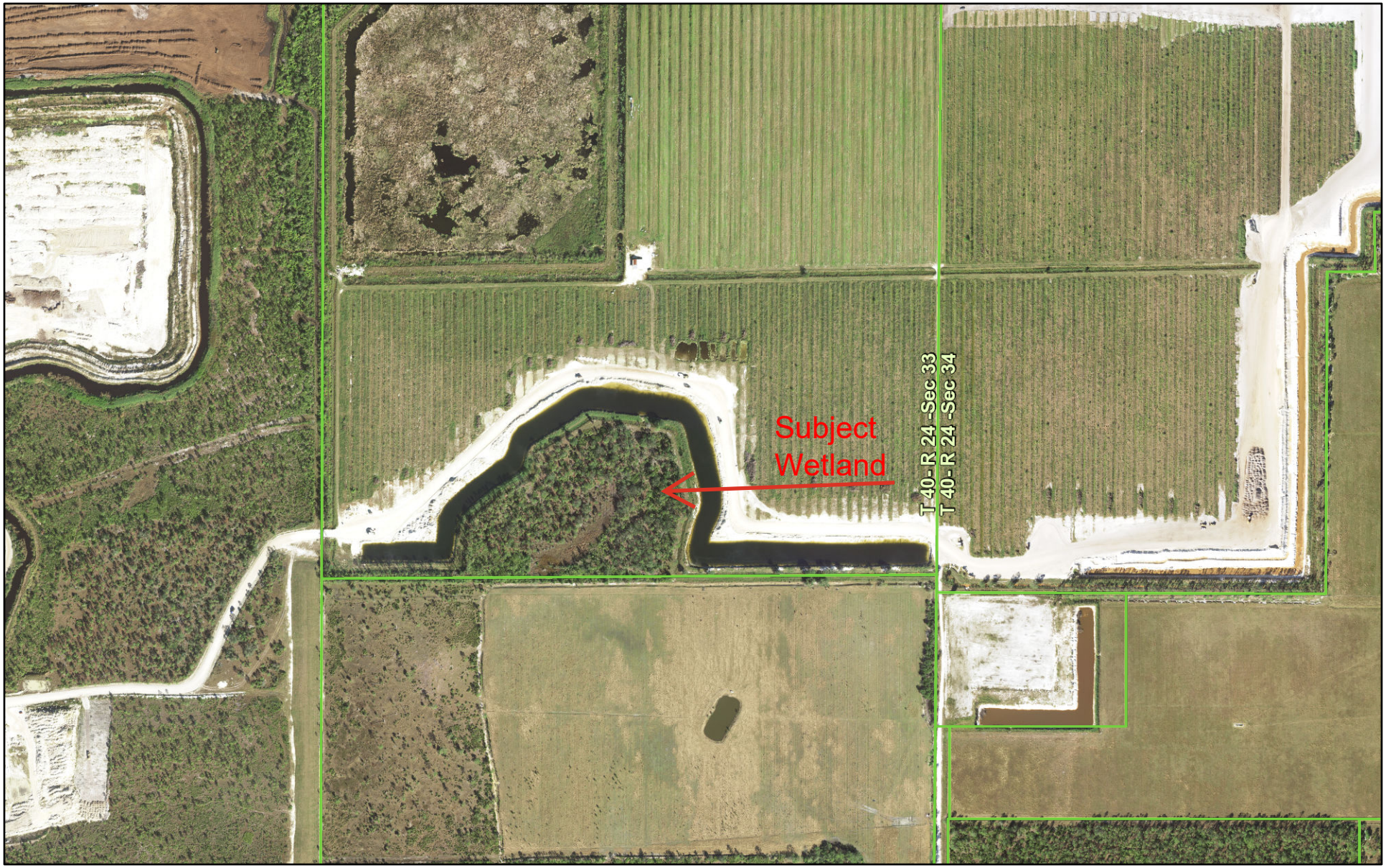
4. Any wetland of any size whose functioning hydroperiods are connected via a direct natural surface water connection to parks or conservation lands.
   The on-site wetland does not meet this criterion. The wetland is isolated to the site; there is no direct natural surface water connection to any parks or conservation lands.

5. Any wetland of any size where downstream or other hydrologically connected habitats are significantly dependent on discharges from the wetland.
   The on-site wetland does not meet this criterion. The wetland is isolated on-site; therefore, there is no downstream or other hydrologically connected habitat dependent on the discharges from the wetland.





Project Location Map, Waterside



April 9, 2025

Block Number

Lots

Property Ownership

City of Punta Gorda Boundary

1:8,000

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Charlotte County, Charlotte County GIS

Charlotte County GIS



Map Scale: 1:1,790 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 25 50 100 150

Feet
0 50 100 200 300

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

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

- Streams and Canals

Transportation

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

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

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

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

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

Soil Survey Area: Charlotte County, Florida
Survey Area Data: Version 23, Aug 20, 2024

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

Date(s) aerial images were photographed: Nov 14, 2021—Nov 23, 2021

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

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
26	Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	30	0.8	7.1%
33	Oldsmar sand, 0 to 2 percent slopes	30	10.9	92.9%
Totals for Area of Interest			**11.7**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Kari Laroche
Southwest Engineering & Design
25450 Airport Road; Suite B
Punta Gorda, FL 33950
TEL: 941-637-9655
FAX:

RE: Waterside - 10 Sites (Soil) Order No.: 2310221

Dear Kari Laroche:

Sanders Laboratories, Inc received 10 sample(s) on 10/5/2023 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.



Katie Strothman
Laboratory Director

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2310221**

Date:

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2310 221

Report To EMail: Duayne
Client ID:
Client
Bill to EMail:
Project Name: Sw Eng Waterside
Address
P.O. #:
Project Location:
Permit #/PWS ID:
Phone
Requested Due Date:

Sampled By (PRINT): Christian Bourdeau
Sampler Signature:

Matrix	Sample Description	Sample Collection Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TOC	Metals	VOC 8270C BTEX 8260	Hydrocarbons			Field	(Lab Use Only) Sample ID #
	Watershed 1	10/5/23	0840	G		X	X					X	X	X	X	X		X	1A-E
	WS Soil 2 High		0905			X	X					X	X	X	X	X		X	2A-E
	WS Soil 2 Mid		0915			X	X											X	3A-E
	WS Soil 2 Low		0925			X	X											X	4A-E
	WS Soil 3 High		1025			X	X											X	5AE
	WS Soil 3 Mid		1035			X	X											X	6A-E
	WS Soil 3 low		1045			X	X											X	7A-E

A B C D E

Kit Number
Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3= N, Na2S2O3 = ST or Thio H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA							
UN	Unpreserved								
GA	Glass Amber		Samples On Ice						
V	Vial		(Yes) No						
Volume=	250,500,in mL 1L 2L		7.3						
Micro	F= Flip SC= Screw Cap		Temp. °C						

10/5/23 1545 — 10/5/23 1545

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1050 Endeavor Ct, Nokomis, FL 34275 (941)488-8103 fax:(941)484-6774 E84380 10090 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax:(239)590-0536 E85457

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2310221

Client: _____ Report To EMail: Dwayne
Address: _____ Bill to EMail: _____
Phone: _____ P.O. #: _____
Client ID: _____
Project Name: SW Eng Waterside
Project Location: _____
Permit #/PWS ID: _____
Requested Due Date: _____

Sampled By (PRINT): Christian Bonilla
Sampler Signature: [signature]

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TCL	VOC 8272	BTEX 8260	Hydrocarbons	metals			CRA	(Lab Use Only) Sample ID #
	WS Soil 4 High	10/5/23	1130	G		X	X					X	X	X	X	X			X	8A-E
	WS Soil 4 MID	"	1140	"		X	X					"	"	"	"	"			X	9A-E
	WS Soil 4 LOW	"	1150	"		X	X					"	"	"	"	"			X	10A-E

Kit Number: _____
Comments: _____

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3= N, Na2S2O3 = ST or Thio H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA		[signature]	10/5/23	1545	[signature]	10/5/23	1545
UN	Unpreserved		Samples On Ice						
GA	Glass Amber		(Yes) No						
V	Vial		7.3						
Volume=	250,500,in mL 1L 2L		Temp. °C						
Micro	F= Flip SC= Screw Cap								

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1050 Endeavor Ct, Nokomis, FL 34275 (941)488-8103 fax:(941)484-6774 E84380 10090 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax:(239)590-0536 E85457

Sanders Laboratories
Environmental Testing Services

Date: 10/5/23
Field Tech: ~~AEV~~
Location: SW Eng

Site	Time	Sample Depth **CIRCLE:** Surface 6-12in Sub Surface 12in **CIRCLE:** Grab Aereal Composite 10/5/23	Weather Cloud Cover	Weather Wind W/S	Air Temp (C)
Waterside Shed 1	0840	~~8in~~ 12in	5%	7mph	23.8
WS Soil 2 High	0905				
WS Soil 2 MID	0915				
WS Soil 2 Low	0925			W/S	
WS Soil 3 High	1025		10%	8mph	27.2
WS Soil 3 MID	1035				
WS Soil 3 Low	1045				
WS Soil 4 High	1130				
WS Soil 4 MID	1140				

Comments:

Decon
Y N

Tests/Bottles/Preservatives:

soil jars 8oz Lot #	Preservative
062623-1TX	

Equipment Used: (circle)
Auger
Core Sampler
Shovel
Scoop
Sample Container

Form ID: FF-18 7/9/2020 KS

Sanders Laboratories
Environmental Testing Services

Date: 10/5/23
Field Tech: ~~Dad~~ SW Eng
Location: -Water Side

Site	Time	Sample Depth **CIRCLE:** Surface 6-12in Sub Surface 12in **CIRCLE:** Grab Aereal Composite	Weather		Air Temp (C)
			Cloud Cover	Wind W/S	
WS Soil 4 low 1150		12in	65%	8mph	30.5

Comments:

Decon
Y N

Tests/Bottles/Preservatives:

soil jars 8oz Lot #	Preservative
062623-1-TX	

Equipment Used: (circle)
Auger
Core Sampler
Shovel
Scoop
Sample Container

Form ID: FF-18 7/9/2020 KS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 25, 2023

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2310221
Pace Project No.: 35832847

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman*, Sanders Laboratories, Inc.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: 2310221
Pace Project No.: 35832847

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #:ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35832847001	**2310221-001**	Solid	10/05/23 08:40	10/06/23 11:15
35832847002	**2310221-002**	Solid	10/05/23 09:05	10/06/23 11:15
35832847003	**2310221-003**	Solid	10/05/23 09:15	10/06/23 11:15
35832847004	**2310221-004**	Solid	10/05/23 09:25	10/06/23 11:15
35832847005	**2310221-005**	Solid	10/05/23 10:25	10/06/23 11:15
35832847006	**2310221-006**	Solid	10/05/23 10:35	10/06/23 11:15
35832847007	**2310221-007**	Solid	10/05/23 10:45	10/06/23 11:15
35832847008	**2310221-008**	Solid	10/05/23 11:30	10/06/23 11:15
35832847009	**2310221-009**	Solid	10/05/23 11:40	10/06/23 11:15
35832847010	**2310221-010**	Solid	10/05/23 11:50	10/06/23 11:15

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35832847001	**2310221-001**	EPA 8081	BLM	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847002	**2310221-002**	EPA 8081	BLM	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	BSL	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847003	**2310221-003**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847004	**2310221-004**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847005	**2310221-005**	EPA 8081	CB1	22	PASI-O

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847006	**2310221-006**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847007	**2310221-007**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847008	**2310221-008**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847009	**2310221-009**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G
35832847010	**2310221-010**	EPA 8081	CB1	22	PASI-O
		FL-PRO	PKC	3	PASI-O
		EPA 6020	LEC	8	PASI-O
		EPA 7471	JNK	1	PASI-O
		EPA 8270	WWW	74	PASI-O
		EPA 8260	AST	55	PASI-O
		ASTM D2974-87	SB	1	PASI-O
		SM 2540G	WW1	1	PASI-O
		EPA 9060 Modified	TJJ	4	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-001 **Lab ID: 35832847001** Collected: 10/05/23 08:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00022 U**	mg/kg	0.0022	0.00022	1	10/10/23 10:36	10/11/23 14:09	309-00-2	
alpha-BHC	**0.00012 U**	mg/kg	0.0022	0.00012	1	10/10/23 10:36	10/11/23 14:09	319-84-6	
beta-BHC	**0.00027 U**	mg/kg	0.0022	0.00027	1	10/10/23 10:36	10/11/23 14:09	319-85-7	
delta-BHC	**0.00011 U**	mg/kg	0.0022	0.00011	1	10/10/23 10:36	10/11/23 14:09	319-86-8	
gamma-BHC (Lindane)	**0.000065 U**	mg/kg	0.0022	0.000065	1	10/10/23 10:36	10/11/23 14:09	58-89-9	
Chlordane (Technical)	**0.0067 U**	mg/kg	0.022	0.0067	1	10/10/23 10:36	10/11/23 14:09	57-74-9	
4,4'-DDD	**0.00010 U**	mg/kg	0.0022	0.00010	1	10/10/23 10:36	10/11/23 14:09	72-54-8	
4,4'-DDE	**0.000088 U**	mg/kg	0.0022	0.000088	1	10/10/23 10:36	10/11/23 14:09	72-55-9	
4,4'-DDT	**0.00013 U**	mg/kg	0.0022	0.00013	1	10/10/23 10:36	10/11/23 14:09	50-29-3	
Dieldrin	**0.000086 U**	mg/kg	0.0022	0.000086	1	10/10/23 10:36	10/11/23 14:09	60-57-1	
Endosulfan I	**0.00025 U**	mg/kg	0.0022	0.00025	1	10/10/23 10:36	10/11/23 14:09	959-98-8	
Endosulfan II	**0.00010 U**	mg/kg	0.0022	0.00010	1	10/10/23 10:36	10/11/23 14:09	33213-65-9	
Endosulfan sulfate	**0.000088 U**	mg/kg	0.0022	0.000088	1	10/10/23 10:36	10/11/23 14:09	1031-07-8	
Endrin	**0.00014 U**	mg/kg	0.0022	0.00014	1	10/10/23 10:36	10/11/23 14:09	72-20-8	
Endrin aldehyde	**0.00015 U**	mg/kg	0.0045	0.00015	1	10/10/23 10:36	10/11/23 14:09	7421-93-4	
Endrin ketone	**0.00010 U**	mg/kg	0.0022	0.00010	1	10/10/23 10:36	10/11/23 14:09	53494-70-5	
Heptachlor	**0.00024 U**	mg/kg	0.0022	0.00024	1	10/10/23 10:36	10/11/23 14:09	76-44-8	
Heptachlor epoxide	**0.000096 U**	mg/kg	0.0022	0.000096	1	10/10/23 10:36	10/11/23 14:09	1024-57-3	
Methoxychlor	**0.00033 U**	mg/kg	0.0022	0.00033	1	10/10/23 10:36	10/11/23 14:09	72-43-5	
Toxaphene	**0.0097 U**	mg/kg	0.022	0.0097	1	10/10/23 10:36	10/11/23 14:09	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	53-140		1	10/10/23 10:36	10/11/23 14:09	877-09-8	
Decachlorobiphenyl (S)	91	%	43-157		1	10/10/23 10:36	10/11/23 14:09	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**35.0 U**	mg/kg	40.7	35.0	1	10/07/23 15:59	10/09/23 18:28		P1
Surrogates									
o-Terphenyl (S)	85	%	66-136		1	10/07/23 15:59	10/09/23 18:28	84-15-1	
N-Pentatriacontane (S)	107	%	42-159		1	10/07/23 15:59	10/09/23 18:28	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.36 I**	mg/kg	1.1	0.18	20	10/10/23 04:38	10/11/23 12:42	7440-38-2	
Barium	**5.6**	mg/kg	1.1	0.21	20	10/10/23 04:38	10/11/23 12:42	7440-39-3	
Cadmium	**0.074 I**	mg/kg	0.14	0.030	20	10/10/23 04:38	10/11/23 12:42	7440-43-9	
Chromium	**6.9**	mg/kg	1.1	0.65	20	10/10/23 04:38	10/11/23 12:42	7440-47-3	
Copper	**1.1 I**	mg/kg	2.3	0.58	20	10/10/23 04:38	10/11/23 12:42	7440-50-8	
Lead	**1.9**	mg/kg	1.1	0.42	20	10/10/23 04:38	10/11/23 12:42	7439-92-1	
Selenium	**0.91 I**	mg/kg	1.1	0.59	20	10/10/23 04:38	10/11/23 12:42	7782-49-2	
Silver	**0.043 U**	mg/kg	0.14	0.043	20	10/10/23 04:38	10/11/23 12:42	7440-22-4	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-001 **Lab ID: 35832847001** Collected: 10/05/23 08:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.013**	mg/kg	0.011	0.0055	1	10/17/23 08:25	10/17/23 12:57	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.12 U**	mg/kg	0.28	0.12	1	10/10/23 01:16	10/18/23 22:40	83-32-9	P1
Acenaphthylene	**0.041 U**	mg/kg	0.26	0.041	1	10/10/23 01:16	10/18/23 22:40	208-96-8	P1
Aniline	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/18/23 22:40	62-53-3	P1
Anthracene	**0.035 U**	mg/kg	0.28	0.035	1	10/10/23 01:16	10/18/23 22:40	120-12-7	P1
Benzo(a)anthracene	**0.035 U**	mg/kg	0.26	0.035	1	10/10/23 01:16	10/18/23 22:40	56-55-3	P1
Benzo(a)pyrene	**0.065 U**	mg/kg	0.26	0.065	1	10/10/23 01:16	10/18/23 22:40	50-32-8	P1
Benzo(b)fluoranthene	**0.069 U**	mg/kg	0.26	0.069	1	10/10/23 01:16	10/18/23 22:40	205-99-2	P1
Benzo(g,h,i)perylene	**0.065 U**	mg/kg	0.26	0.065	1	10/10/23 01:16	10/18/23 22:40	191-24-2	P1
Benzo(k)fluoranthene	**0.069 U**	mg/kg	0.26	0.069	1	10/10/23 01:16	10/18/23 22:40	207-08-9	P1
Benzyl alcohol	**0.27 U**	mg/kg	1.3	0.27	1	10/10/23 01:16	10/18/23 22:40	100-51-6	P1
4-Bromophenylphenyl ether	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/18/23 22:40	101-55-3	P1
Butylbenzylphthalate	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/18/23 22:40	85-68-7	P1
4-Chloro-3-methylphenol	**0.77 U**	mg/kg	5.2	0.77	1	10/10/23 01:16	10/18/23 22:40	59-50-7	P1
4-Chloroaniline	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/18/23 22:40	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	111-91-1	P1
bis(2-Chloroethyl) ether	**0.085 U**	mg/kg	1.3	0.085	1	10/10/23 01:16	10/18/23 22:40	111-44-4	P1
bis(2-Chloroisopropyl) ether	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/18/23 22:40	108-60-1	P1
2-Chloronaphthalene	**0.062 U**	mg/kg	1.3	0.062	1	10/10/23 01:16	10/18/23 22:40	91-58-7	P1
2-Chlorophenol	**0.21 U**	mg/kg	1.3	0.21	1	10/10/23 01:16	10/18/23 22:40	95-57-8	P1
4-Chlorophenylphenyl ether	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	7005-72-3	P1
Chrysene	**0.035 U**	mg/kg	0.26	0.035	1	10/10/23 01:16	10/18/23 22:40	218-01-9	P1
Dibenz(a,h)anthracene	**0.060 U**	mg/kg	0.26	0.060	1	10/10/23 01:16	10/18/23 22:40	53-70-3	P1
Dibenzofuran	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	132-64-9	P1
1,2-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	95-50-1	P1
1,3-Dichlorobenzene	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/18/23 22:40	541-73-1	P1
1,4-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	106-46-7	P1
3,3'-Dichlorobenzidine	**0.25 U**	mg/kg	5.2	0.25	1	10/10/23 01:16	10/18/23 22:40	91-94-1	P1
2,4-Dichlorophenol	**0.058 U**	mg/kg	1.3	0.058	1	10/10/23 01:16	10/18/23 22:40	120-83-2	P1
Diethylphthalate	**0.44 U**	mg/kg	1.3	0.44	1	10/10/23 01:16	10/18/23 22:40	84-66-2	P1
2,4-Dimethylphenol	**0.23 U**	mg/kg	1.3	0.23	1	10/10/23 01:16	10/18/23 22:40	105-67-9	P1
Dimethylphthalate	**0.21 U**	mg/kg	1.3	0.21	1	10/10/23 01:16	10/18/23 22:40	131-11-3	P1
Di-n-butylphthalate	**1.0 U**	mg/kg	1.3	1.0	1	10/10/23 01:16	10/18/23 22:40	84-74-2	P1
4,6-Dinitro-2-methylphenol	**1.7 U**	mg/kg	5.2	1.7	1	10/10/23 01:16	10/18/23 22:40	534-52-1	P1
2,4-Dinitrophenol	**0.77 U**	mg/kg	5.2	0.77	1	10/10/23 01:16	10/18/23 22:40	51-28-5	J(v2),P1
2,4-Dinitrotoluene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	121-14-2	P1
2,6-Dinitrotoluene	**0.063 U**	mg/kg	1.3	0.063	1	10/10/23 01:16	10/18/23 22:40	606-20-2	P1
Di-n-octylphthalate	**0.32 U**	mg/kg	1.3	0.32	1	10/10/23 01:16	10/18/23 22:40	117-84-0	P1
1,2-Diphenylhydrazine	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/18/23 22:40	122-66-7	P1
bis(2-Ethylhexyl)phthalate	**0.27 U**	mg/kg	1.3	0.27	1	10/10/23 01:16	10/18/23 22:40	117-81-7	P1
Fluoranthene	**0.085 U**	mg/kg	0.26	0.085	1	10/10/23 01:16	10/18/23 22:40	206-44-0	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-001 **Lab ID: 35832847001** Collected: 10/05/23 08:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Fluorene	**0.092 U**	mg/kg	0.28	0.092	1	10/10/23 01:16	10/18/23 22:40	86-73-7	P1
Hexachloro-1,3-butadiene	**0.092 U**	mg/kg	1.3	0.092	1	10/10/23 01:16	10/18/23 22:40	87-68-3	P1
Hexachlorobenzene	**0.051 U**	mg/kg	1.3	0.051	1	10/10/23 01:16	10/18/23 22:40	118-74-1	P1
Hexachlorocyclopentadiene	**0.95 U**	mg/kg	5.2	0.95	1	10/10/23 01:16	10/18/23 22:40	77-47-4	P1
Hexachloroethane	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/18/23 22:40	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.059 U**	mg/kg	0.26	0.059	1	10/10/23 01:16	10/18/23 22:40	193-39-5	P1
Isophorone	**0.22 U**	mg/kg	1.3	0.22	1	10/10/23 01:16	10/18/23 22:40	78-59-1	P1
1-Methylnaphthalene	**0.043 U**	mg/kg	0.31	0.043	1	10/10/23 01:16	10/18/23 22:40	90-12-0	P1
2-Methylnaphthalene	**0.041 U**	mg/kg	0.30	0.041	1	10/10/23 01:16	10/18/23 22:40	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.062 U**	mg/kg	1.3	0.062	1	10/10/23 01:16	10/18/23 22:40	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.059 U**	mg/kg	1.3	0.059	1	10/10/23 01:16	10/18/23 22:40		P1
Naphthalene	**0.092 U**	mg/kg	0.27	0.092	1	10/10/23 01:16	10/18/23 22:40	91-20-3	P1
2-Nitroaniline	**0.32 U**	mg/kg	1.3	0.32	1	10/10/23 01:16	10/18/23 22:40	88-74-4	P1
3-Nitroaniline	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/18/23 22:40	99-09-2	P1
4-Nitroaniline	**0.065 U**	mg/kg	1.3	0.065	1	10/10/23 01:16	10/18/23 22:40	100-01-6	P1
Nitrobenzene	**0.086 U**	mg/kg	1.3	0.086	1	10/10/23 01:16	10/18/23 22:40	98-95-3	P1
2-Nitrophenol	**0.42 U**	mg/kg	1.3	0.42	1	10/10/23 01:16	10/18/23 22:40	88-75-5	P1
4-Nitrophenol	**0.56 U**	mg/kg	1.7	0.56	1	10/10/23 01:16	10/18/23 22:40	100-02-7	P1
N-Nitrosodimethylamine	**0.085 U**	mg/kg	1.3	0.085	1	10/10/23 01:16	10/18/23 22:40	62-75-9	P1
N-Nitroso-di-n-propylamine	**0.051 U**	mg/kg	1.3	0.051	1	10/10/23 01:16	10/18/23 22:40	621-64-7	P1
N-Nitrosodiphenylamine	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/18/23 22:40	86-30-6	P1
Pentachlorophenol	**0.67 U**	mg/kg	5.2	0.67	1	10/10/23 01:16	10/18/23 22:40	87-86-5	P1
Phenanthrene	**0.037 U**	mg/kg	0.26	0.037	1	10/10/23 01:16	10/18/23 22:40	85-01-8	P1
Phenol	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/18/23 22:40	108-95-2	P1
Pyrene	**0.076 U**	mg/kg	0.26	0.076	1	10/10/23 01:16	10/18/23 22:40	129-00-0	P1
1,2,4-Trichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/18/23 22:40	120-82-1	P1
2,4,5-Trichlorophenol	**0.052 U**	mg/kg	1.3	0.052	1	10/10/23 01:16	10/18/23 22:40	95-95-4	P1
2,4,6-Trichlorophenol	**0.071 U**	mg/kg	1.3	0.071	1	10/10/23 01:16	10/18/23 22:40	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	58	%	24-98		1	10/10/23 01:16	10/18/23 22:40	4165-60-0	
2-Fluorobiphenyl (S)	56	%	29-101		1	10/10/23 01:16	10/18/23 22:40	321-60-8	
p-Terphenyl-d14 (S)	62	%	29-112		1	10/10/23 01:16	10/18/23 22:40	1718-51-0	
Phenol-d6 (S)	54	%	10-104		1	10/10/23 01:16	10/18/23 22:40	13127-88-3	
2-Fluorophenol (S)	54	%	19-95		1	10/10/23 01:16	10/18/23 22:40	367-12-4	
2,4,6-Tribromophenol (S)	58	%	23-110		1	10/10/23 01:16	10/18/23 22:40	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.17**	mg/kg	0.066	0.029	1	10/09/23 19:31	10/10/23 04:42	67-64-1	
Acetonitrile	**0.020 U**	mg/kg	0.066	0.020	1	10/09/23 19:31	10/10/23 04:42	75-05-8	
Benzene	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	71-43-2	
Bromochloromethane	**0.00098 U**	mg/kg	0.0066	0.00098	1	10/09/23 19:31	10/10/23 04:42	74-97-5	J(v1)
Bromodichloromethane	**0.0015 U**	mg/kg	0.0066	0.0015	1	10/09/23 19:31	10/10/23 04:42	75-27-4	
Bromoform	**0.0015 U**	mg/kg	0.0066	0.0015	1	10/09/23 19:31	10/10/23 04:42	75-25-2	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-001 **Lab ID: 35832847001** Collected: 10/05/23 08:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Bromomethane	**0.0024 U**	mg/kg	0.0066	0.0024	1	10/09/23 19:31	10/10/23 04:42	74-83-9	
2-Butanone (MEK)	**0.0066 U**	mg/kg	0.066	0.0066	1	10/09/23 19:31	10/10/23 04:42	78-93-3	
Carbon disulfide	**0.0033 U**	mg/kg	0.0066	0.0033	1	10/09/23 19:31	10/10/23 04:42	75-15-0	J(v1)
Carbon tetrachloride	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	56-23-5	
Chlorobenzene	**0.0012 U**	mg/kg	0.0066	0.0012	1	10/09/23 19:31	10/10/23 04:42	108-90-7	
Chloroethane	**0.0028 U**	mg/kg	0.0066	0.0028	1	10/09/23 19:31	10/10/23 04:42	75-00-3	
Chloroform	**0.0024 U**	mg/kg	0.0066	0.0024	1	10/09/23 19:31	10/10/23 04:42	67-66-3	
Chloromethane	**0.0026 U**	mg/kg	0.0066	0.0026	1	10/09/23 19:31	10/10/23 04:42	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	96-12-8	
Dibromochloromethane	**0.0012 U**	mg/kg	0.0066	0.0012	1	10/09/23 19:31	10/10/23 04:42	124-48-1	
1,2-Dibromoethane (EDB)	**0.00098 U**	mg/kg	0.0066	0.00098	1	10/09/23 19:31	10/10/23 04:42	106-93-4	
Dibromomethane	**0.00094 U**	mg/kg	0.0066	0.00094	1	10/09/23 19:31	10/10/23 04:42	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.0010 U**	mg/kg	0.0066	0.0010	1	10/09/23 19:31	10/10/23 04:42	95-50-1	
1,4-Dichlorobenzene	**0.00089 U**	mg/kg	0.0066	0.00089	1	10/09/23 19:31	10/10/23 04:42	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	110-57-6	
1,1-Dichloroethane	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	75-34-3	
1,2-Dichloroethane	**0.0010 U**	mg/kg	0.0066	0.0010	1	10/09/23 19:31	10/10/23 04:42	107-06-2	
1,2-Dichloroethene (Total)	**0.0040 U**	mg/kg	0.0066	0.0040	1	10/09/23 19:31	10/10/23 04:42	540-59-0	
1,1-Dichloroethene	**0.0033 U**	mg/kg	0.0066	0.0033	1	10/09/23 19:31	10/10/23 04:42	75-35-4	
cis-1,2-Dichloroethene	**0.0015 U**	mg/kg	0.0066	0.0015	1	10/09/23 19:31	10/10/23 04:42	156-59-2	
trans-1,2-Dichloroethene	**0.0017 U**	mg/kg	0.0066	0.0017	1	10/09/23 19:31	10/10/23 04:42	156-60-5	
1,2-Dichloropropane	**0.0012 U**	mg/kg	0.0066	0.0012	1	10/09/23 19:31	10/10/23 04:42	78-87-5	
cis-1,3-Dichloropropene	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	10061-01-5	
trans-1,3-Dichloropropene	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	10061-02-6	
Ethylbenzene	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	100-41-4	
2-Hexanone	**0.0066 U**	mg/kg	0.033	0.0066	1	10/09/23 19:31	10/10/23 04:42	591-78-6	
Iodomethane	**0.0015 U**	mg/kg	0.013	0.0015	1	10/09/23 19:31	10/10/23 04:42	74-88-4	
Isopropylbenzene (Cumene)	**0.0017 U**	mg/kg	0.0066	0.0017	1	10/09/23 19:31	10/10/23 04:42	98-82-8	
Methylene Chloride	**0.0058 U**	mg/kg	0.0066	0.0058	1	10/09/23 19:31	10/10/23 04:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0066 U**	mg/kg	0.033	0.0066	1	10/09/23 19:31	10/10/23 04:42	108-10-1	
Methyl-tert-butyl ether	**0.0020 U**	mg/kg	0.0066	0.0020	1	10/09/23 19:31	10/10/23 04:42	1634-04-4	
Styrene	**0.0033 U**	mg/kg	0.0066	0.0033	1	10/09/23 19:31	10/10/23 04:42	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00081 U**	mg/kg	0.0066	0.00081	1	10/09/23 19:31	10/10/23 04:42	79-34-5	
Tetrachloroethene	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	127-18-4	
Toluene	**0.0026 U**	mg/kg	0.0066	0.0026	1	10/09/23 19:31	10/10/23 04:42	108-88-3	
1,1,1-Trichloroethane	**0.0017 U**	mg/kg	0.0066	0.0017	1	10/09/23 19:31	10/10/23 04:42	71-55-6	
1,1,2-Trichloroethane	**0.00078 U**	mg/kg	0.0066	0.00078	1	10/09/23 19:31	10/10/23 04:42	79-00-5	
Trichloroethene	**0.0016 U**	mg/kg	0.0066	0.0016	1	10/09/23 19:31	10/10/23 04:42	79-01-6	
Trichlorofluoromethane	**0.0033 U**	mg/kg	0.0066	0.0033	1	10/09/23 19:31	10/10/23 04:42	75-69-4	
1,2,3-Trichloropropane	**0.0020 U**	mg/kg	0.0066	0.0020	1	10/09/23 19:31	10/10/23 04:42	96-18-4	
Vinyl acetate	**0.0021 U**	mg/kg	0.0066	0.0021	1	10/09/23 19:31	10/10/23 04:42	108-05-4	
Vinyl chloride	**0.0028 U**	mg/kg	0.0066	0.0028	1	10/09/23 19:31	10/10/23 04:42	75-01-4	
Xylene (Total)	**0.0068 U**	mg/kg	0.020	0.0068	1	10/09/23 19:31	10/10/23 04:42	1330-20-7	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-001 **Lab ID: 35832847001** Collected: 10/05/23 08:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
m&p-Xylene	**0.0068 U**	mg/kg	0.013	0.0068	1	10/09/23 19:31	10/10/23 04:42	179601-23-1	
o-Xylene	**0.0013 U**	mg/kg	0.0066	0.0013	1	10/09/23 19:31	10/10/23 04:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	68-125		1	10/09/23 19:31	10/10/23 04:42	460-00-4	
Toluene-d8 (S)	101	%	70-130		1	10/09/23 19:31	10/10/23 04:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1	10/09/23 19:31	10/10/23 04:42	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**24.2**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**759000**	mg/kg	10.0	10.0	1		10/08/23 16:57		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**6.5**	%	0.10	0.10	1		10/20/23 08:43		
Total Organic Carbon	**1860**	mg/kg	789	235	1		10/20/23 08:43	7440-44-0	
Total Organic Carbon	**1980**	mg/kg	790	236	1		10/20/23 08:49	7440-44-0	
Mean Total Organic Carbon	**1920**	mg/kg	790	236	1		10/20/23 08:43	7440-44-0	

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00020 U**	mg/kg	0.0020	0.00020	1	10/10/23 10:36	10/11/23 14:22	309-00-2	
alpha-BHC	**0.00011 U**	mg/kg	0.0020	0.00011	1	10/10/23 10:36	10/11/23 14:22	319-84-6	
beta-BHC	**0.00024 U**	mg/kg	0.0020	0.00024	1	10/10/23 10:36	10/11/23 14:22	319-85-7	
delta-BHC	**0.00010 U**	mg/kg	0.0020	0.00010	1	10/10/23 10:36	10/11/23 14:22	319-86-8	
gamma-BHC (Lindane)	**0.000058 U**	mg/kg	0.0020	0.000058	1	10/10/23 10:36	10/11/23 14:22	58-89-9	
Chlordane (Technical)	**0.0060 U**	mg/kg	0.020	0.0060	1	10/10/23 10:36	10/11/23 14:22	57-74-9	
4,4'-DDD	**0.000090 U**	mg/kg	0.0020	0.000090	1	10/10/23 10:36	10/11/23 14:22	72-54-8	
4,4'-DDE	**0.000079 U**	mg/kg	0.0020	0.000079	1	10/10/23 10:36	10/11/23 14:22	72-55-9	
4,4'-DDT	**0.00012 U**	mg/kg	0.0020	0.00012	1	10/10/23 10:36	10/11/23 14:22	50-29-3	
Dieldrin	**0.000077 U**	mg/kg	0.0020	0.000077	1	10/10/23 10:36	10/11/23 14:22	60-57-1	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Endosulfan I	**0.00022 U**	mg/kg	0.0020	0.00022	1	10/10/23 10:36	10/11/23 14:22	959-98-8	
Endosulfan II	**0.000090 U**	mg/kg	0.0020	0.000090	1	10/10/23 10:36	10/11/23 14:22	33213-65-9	
Endosulfan sulfate	**0.000079 U**	mg/kg	0.0020	0.000079	1	10/10/23 10:36	10/11/23 14:22	1031-07-8	
Endrin	**0.00013 U**	mg/kg	0.0020	0.00013	1	10/10/23 10:36	10/11/23 14:22	72-20-8	
Endrin aldehyde	**0.00013 U**	mg/kg	0.0040	0.00013	1	10/10/23 10:36	10/11/23 14:22	7421-93-4	
Endrin ketone	**0.000093 U**	mg/kg	0.0020	0.000093	1	10/10/23 10:36	10/11/23 14:22	53494-70-5	
Heptachlor	**0.00021 U**	mg/kg	0.0020	0.00021	1	10/10/23 10:36	10/11/23 14:22	76-44-8	
Heptachlor epoxide	**0.000086 U**	mg/kg	0.0020	0.000086	1	10/10/23 10:36	10/11/23 14:22	1024-57-3	
Methoxychlor	**0.00029 U**	mg/kg	0.0020	0.00029	1	10/10/23 10:36	10/11/23 14:22	72-43-5	
Toxaphene	**0.0087 U**	mg/kg	0.020	0.0087	1	10/10/23 10:36	10/11/23 14:22	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	53-140		1	10/10/23 10:36	10/11/23 14:22	877-09-8	
Decachlorobiphenyl (S)	100	%	43-157		1	10/10/23 10:36	10/11/23 14:22	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**5.1 U**	mg/kg	5.9	5.1	1	10/07/23 15:59	10/09/23 18:41		
Surrogates									
o-Terphenyl (S)	80	%	66-136		1	10/07/23 15:59	10/09/23 18:41	84-15-1	
N-Pentatriacontane (S)	98	%	42-159		1	10/07/23 15:59	10/09/23 18:41	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.20 U**	mg/kg	1.3	0.20	20	10/10/23 04:38	10/10/23 18:42	7440-38-2	
Barium	**1.5**	mg/kg	1.3	0.24	20	10/10/23 04:38	10/10/23 18:42	7440-39-3	
Cadmium	**0.034 U**	mg/kg	0.15	0.034	20	10/10/23 04:38	10/10/23 18:42	7440-43-9	
Chromium	**0.74 U**	mg/kg	1.3	0.74	20	10/10/23 04:38	10/10/23 18:42	7440-47-3	
Copper	**0.66 U**	mg/kg	2.6	0.66	20	10/10/23 04:38	10/10/23 18:42	7440-50-8	
Lead	**0.65 I**	mg/kg	1.3	0.47	20	10/10/23 04:38	10/10/23 18:42	7439-92-1	
Selenium	**0.66 U**	mg/kg	1.3	0.66	20	10/10/23 04:38	10/10/23 18:42	7782-49-2	
Silver	**0.049 U**	mg/kg	0.15	0.049	20	10/10/23 04:38	10/10/23 18:42	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0044 U**	mg/kg	0.0088	0.0044	1	10/18/23 11:06	10/18/23 13:42	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.019 U**	mg/kg	0.042	0.019	1	10/10/23 01:16	10/14/23 22:46	83-32-9	
Acenaphthylene	**0.0062 U**	mg/kg	0.040	0.0062	1	10/10/23 01:16	10/14/23 22:46	208-96-8	
Aniline	**0.039 U**	mg/kg	0.20	0.039	1	10/10/23 01:16	10/14/23 22:46	62-53-3	J(M1)

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Anthracene	**0.0054 U**	mg/kg	0.042	0.0054	1	10/10/23 01:16	10/14/23 22:46	120-12-7	J(M1)
Benzo(a)anthracene	**0.0053 U**	mg/kg	0.040	0.0053	1	10/10/23 01:16	10/14/23 22:46	56-55-3	
Benzo(a)pyrene	**0.0099 U**	mg/kg	0.040	0.0099	1	10/10/23 01:16	10/14/23 22:46	50-32-8	J(M1)
Benzo(b)fluoranthene	**0.011 U**	mg/kg	0.040	0.011	1	10/10/23 01:16	10/14/23 22:46	205-99-2	
Benzo(g,h,i)perylene	**0.010 U**	mg/kg	0.040	0.010	1	10/10/23 01:16	10/14/23 22:46	191-24-2	
Benzo(k)fluoranthene	**0.011 U**	mg/kg	0.040	0.011	1	10/10/23 01:16	10/14/23 22:46	207-08-9	
Benzyl alcohol	**0.041 U**	mg/kg	0.20	0.041	1	10/10/23 01:16	10/14/23 22:46	100-51-6	J(M1)
4-Bromophenylphenyl ether	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 01:16	10/14/23 22:46	101-55-3	J(M1)
Butylbenzylphthalate	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 01:16	10/14/23 22:46	85-68-7	J(M1)
4-Chloro-3-methylphenol	**0.12 U**	mg/kg	0.79	0.12	1	10/10/23 01:16	10/14/23 22:46	59-50-7	J(M1)
4-Chloroaniline	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 01:16	10/14/23 22:46	106-47-8	J(M1)
bis(2-Chloroethoxy)methane	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 01:16	10/14/23 22:46	111-91-1	J(M1)
bis(2-Chloroethyl) ether	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 01:16	10/14/23 22:46	111-44-4	J(M1)
bis(2-Chloroisopropyl) ether	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 01:16	10/14/23 22:46	108-60-1	
2-Chloronaphthalene	**0.0094 U**	mg/kg	0.20	0.0094	1	10/10/23 01:16	10/14/23 22:46	91-58-7	J(M1)
2-Chlorophenol	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 01:16	10/14/23 22:46	95-57-8	J(M1)
4-Chlorophenylphenyl ether	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 01:16	10/14/23 22:46	7005-72-3	J(M1)
Chrysene	**0.0053 U**	mg/kg	0.040	0.0053	1	10/10/23 01:16	10/14/23 22:46	218-01-9	J(M1)
Dibenz(a,h)anthracene	**0.0092 U**	mg/kg	0.040	0.0092	1	10/10/23 01:16	10/14/23 22:46	53-70-3	
Dibenzofuran	**0.027 U**	mg/kg	0.20	0.027	1	10/10/23 01:16	10/14/23 22:46	132-64-9	J(M1)
1,2-Dichlorobenzene	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 01:16	10/14/23 22:46	95-50-1	J(M1)
1,3-Dichlorobenzene	**0.039 U**	mg/kg	0.20	0.039	1	10/10/23 01:16	10/14/23 22:46	541-73-1	J(M1)
1,4-Dichlorobenzene	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 01:16	10/14/23 22:46	106-46-7	J(M1)
3,3'-Dichlorobenzidine	**0.039 U**	mg/kg	0.79	0.039	1	10/10/23 01:16	10/14/23 22:46	91-94-1	J(M1)
2,4-Dichlorophenol	**0.0088 U**	mg/kg	0.20	0.0088	1	10/10/23 01:16	10/14/23 22:46	120-83-2	J(M1)
Diethylphthalate	**0.067 U**	mg/kg	0.20	0.067	1	10/10/23 01:16	10/14/23 22:46	84-66-2	J(M1)
2,4-Dimethylphenol	**0.035 U**	mg/kg	0.20	0.035	1	10/10/23 01:16	10/14/23 22:46	105-67-9	J(M1)
Dimethylphthalate	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 01:16	10/14/23 22:46	131-11-3	J(M1)
Di-n-butylphthalate	**0.16 U**	mg/kg	0.20	0.16	1	10/10/23 01:16	10/14/23 22:46	84-74-2	J(M1)
4,6-Dinitro-2-methylphenol	**0.26 U**	mg/kg	0.79	0.26	1	10/10/23 01:16	10/14/23 22:46	534-52-1	
2,4-Dinitrophenol	**0.12 U**	mg/kg	0.79	0.12	1	10/10/23 01:16	10/14/23 22:46	51-28-5	
2,4-Dinitrotoluene	**0.027 U**	mg/kg	0.20	0.027	1	10/10/23 01:16	10/14/23 22:46	121-14-2	J(M1)
2,6-Dinitrotoluene	**0.0096 U**	mg/kg	0.20	0.0096	1	10/10/23 01:16	10/14/23 22:46	606-20-2	J(M1)
Di-n-octylphthalate	**0.048 U**	mg/kg	0.20	0.048	1	10/10/23 01:16	10/14/23 22:46	117-84-0	J(M1)
1,2-Diphenylhydrazine	**0.043 U**	mg/kg	0.20	0.043	1	10/10/23 01:16	10/14/23 22:46	122-66-7	J(M1)
bis(2-Ethylhexyl)phthalate	**0.041 U**	mg/kg	0.20	0.041	1	10/10/23 01:16	10/14/23 22:46	117-81-7	J(M1)
Fluoranthene	**0.013 U**	mg/kg	0.040	0.013	1	10/10/23 01:16	10/14/23 22:46	206-44-0	J(M1)
Fluorene	**0.014 U**	mg/kg	0.043	0.014	1	10/10/23 01:16	10/14/23 22:46	86-73-7	
Hexachloro-1,3-butadiene	**0.014 U**	mg/kg	0.20	0.014	1	10/10/23 01:16	10/14/23 22:46	87-68-3	J(M1)
Hexachlorobenzene	**0.0078 U**	mg/kg	0.20	0.0078	1	10/10/23 01:16	10/14/23 22:46	118-74-1	J(M1)
Hexachlorocyclopentadiene	**0.14 U**	mg/kg	0.79	0.14	1	10/10/23 01:16	10/14/23 22:46	77-47-4	
Hexachloroethane	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 01:16	10/14/23 22:46	67-72-1	J(M1)
Indeno(1,2,3-cd)pyrene	**0.0090 U**	mg/kg	0.040	0.0090	1	10/10/23 01:16	10/14/23 22:46	193-39-5	
Isophorone	**0.034 U**	mg/kg	0.20	0.034	1	10/10/23 01:16	10/14/23 22:46	78-59-1	J(M1)

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
1-Methylnaphthalene	**0.0066 U**	mg/kg	0.047	0.0066	1	10/10/23 01:16	10/14/23 22:46	90-12-0	J(M1)
2-Methylnaphthalene	**0.0062 U**	mg/kg	0.046	0.0062	1	10/10/23 01:16	10/14/23 22:46	91-57-6	J(M1)
2-Methylphenol(o-Cresol)	**0.0095 U**	mg/kg	0.20	0.0095	1	10/10/23 01:16	10/14/23 22:46	95-48-7	J(M1)
3&4-Methylphenol(m&p Cresol)	**0.0090 U**	mg/kg	0.20	0.0090	1	10/10/23 01:16	10/14/23 22:46		J(M1)
Naphthalene	**0.014 U**	mg/kg	0.041	0.014	1	10/10/23 01:16	10/14/23 22:46	91-20-3	J(M1)
2-Nitroaniline	**0.049 U**	mg/kg	0.20	0.049	1	10/10/23 01:16	10/14/23 22:46	88-74-4	J(M1)
3-Nitroaniline	**0.043 U**	mg/kg	0.20	0.043	1	10/10/23 01:16	10/14/23 22:46	99-09-2	J(M1)
4-Nitroaniline	**0.010 U**	mg/kg	0.20	0.010	1	10/10/23 01:16	10/14/23 22:46	100-01-6	J(M1)
Nitrobenzene	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 01:16	10/14/23 22:46	98-95-3	J(M1)
2-Nitrophenol	**0.063 U**	mg/kg	0.20	0.063	1	10/10/23 01:16	10/14/23 22:46	88-75-5	J(M1)
4-Nitrophenol	**0.086 U**	mg/kg	0.26	0.086	1	10/10/23 01:16	10/14/23 22:46	100-02-7	J(M1)
N-Nitrosodimethylamine	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 01:16	10/14/23 22:46	62-75-9	J(M1)
N-Nitroso-di-n-propylamine	**0.0077 U**	mg/kg	0.20	0.0077	1	10/10/23 01:16	10/14/23 22:46	621-64-7	J(M1)
N-Nitrosodiphenylamine	**0.026 U**	mg/kg	0.20	0.026	1	10/10/23 01:16	10/14/23 22:46	86-30-6	J(M1)
Pentachlorophenol	**0.10 U**	mg/kg	0.79	0.10	1	10/10/23 01:16	10/14/23 22:46	87-86-5	J(M1)
Phenanthrene	**0.0056 U**	mg/kg	0.040	0.0056	1	10/10/23 01:16	10/14/23 22:46	85-01-8	
Phenol	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 01:16	10/14/23 22:46	108-95-2	J(M1)
Pyrene	**0.012 U**	mg/kg	0.040	0.012	1	10/10/23 01:16	10/14/23 22:46	129-00-0	
1,2,4-Trichlorobenzene	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 01:16	10/14/23 22:46	120-82-1	J(M1)
2,4,5-Trichlorophenol	**0.0079 U**	mg/kg	0.20	0.0079	1	10/10/23 01:16	10/14/23 22:46	95-95-4	J(M1)
2,4,6-Trichlorophenol	**0.011 U**	mg/kg	0.20	0.011	1	10/10/23 01:16	10/14/23 22:46	88-06-2	J(M1)
Surrogates									
Nitrobenzene-d5 (S)	42	%	24-98		1	10/10/23 01:16	10/14/23 22:46	4165-60-0	
2-Fluorobiphenyl (S)	41	%	29-101		1	10/10/23 01:16	10/14/23 22:46	321-60-8	
p-Terphenyl-d14 (S)	38	%	29-112		1	10/10/23 01:16	10/14/23 22:46	1718-51-0	
Phenol-d6 (S)	38	%	10-104		1	10/10/23 01:16	10/14/23 22:46	13127-88-3	
2-Fluorophenol (S)	39	%	19-95		1	10/10/23 01:16	10/14/23 22:46	367-12-4	
2,4,6-Tribromophenol (S)	47	%	23-110		1	10/10/23 01:16	10/14/23 22:46	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.23**	mg/kg	0.061	0.027	1	10/09/23 19:31	10/10/23 05:05	67-64-1	
Acetonitrile	**0.018 U**	mg/kg	0.061	0.018	1	10/09/23 19:31	10/10/23 05:05	75-05-8	
Benzene	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	71-43-2	
Bromochloromethane	**0.00090 U**	mg/kg	0.0061	0.00090	1	10/09/23 19:31	10/10/23 05:05	74-97-5	J(v1)
Bromodichloromethane	**0.0013 U**	mg/kg	0.0061	0.0013	1	10/09/23 19:31	10/10/23 05:05	75-27-4	
Bromoform	**0.0013 U**	mg/kg	0.0061	0.0013	1	10/09/23 19:31	10/10/23 05:05	75-25-2	
Bromomethane	**0.0022 U**	mg/kg	0.0061	0.0022	1	10/09/23 19:31	10/10/23 05:05	74-83-9	
2-Butanone (MEK)	**0.0061 U**	mg/kg	0.061	0.0061	1	10/09/23 19:31	10/10/23 05:05	78-93-3	
Carbon disulfide	**0.0031 U**	mg/kg	0.0061	0.0031	1	10/09/23 19:31	10/10/23 05:05	75-15-0	J(v1)
Carbon tetrachloride	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	56-23-5	
Chlorobenzene	**0.0011 U**	mg/kg	0.0061	0.0011	1	10/09/23 19:31	10/10/23 05:05	108-90-7	
Chloroethane	**0.0026 U**	mg/kg	0.0061	0.0026	1	10/09/23 19:31	10/10/23 05:05	75-00-3	
Chloroform	**0.0022 U**	mg/kg	0.0061	0.0022	1	10/09/23 19:31	10/10/23 05:05	67-66-3	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Chloromethane	**0.0024 U**	mg/kg	0.0061	0.0024	1	10/09/23 19:31	10/10/23 05:05	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	96-12-8	
Dibromochloromethane	**0.0011 U**	mg/kg	0.0061	0.0011	1	10/09/23 19:31	10/10/23 05:05	124-48-1	
1,2-Dibromoethane (EDB)	**0.00090 U**	mg/kg	0.0061	0.00090	1	10/09/23 19:31	10/10/23 05:05	106-93-4	
Dibromomethane	**0.00087 U**	mg/kg	0.0061	0.00087	1	10/09/23 19:31	10/10/23 05:05	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00093 U**	mg/kg	0.0061	0.00093	1	10/09/23 19:31	10/10/23 05:05	95-50-1	
1,4-Dichlorobenzene	**0.00082 U**	mg/kg	0.0061	0.00082	1	10/09/23 19:31	10/10/23 05:05	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	110-57-6	
1,1-Dichloroethane	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	75-34-3	
1,2-Dichloroethane	**0.00094 U**	mg/kg	0.0061	0.00094	1	10/09/23 19:31	10/10/23 05:05	107-06-2	
1,2-Dichloroethene (Total)	**0.0037 U**	mg/kg	0.0061	0.0037	1	10/09/23 19:31	10/10/23 05:05	540-59-0	
1,1-Dichloroethene	**0.0031 U**	mg/kg	0.0061	0.0031	1	10/09/23 19:31	10/10/23 05:05	75-35-4	
cis-1,2-Dichloroethene	**0.0013 U**	mg/kg	0.0061	0.0013	1	10/09/23 19:31	10/10/23 05:05	156-59-2	
trans-1,2-Dichloroethene	**0.0016 U**	mg/kg	0.0061	0.0016	1	10/09/23 19:31	10/10/23 05:05	156-60-5	
1,2-Dichloropropane	**0.0011 U**	mg/kg	0.0061	0.0011	1	10/09/23 19:31	10/10/23 05:05	78-87-5	
cis-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	10061-01-5	
trans-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	10061-02-6	
Ethylbenzene	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	100-41-4	
2-Hexanone	**0.0061 U**	mg/kg	0.031	0.0061	1	10/09/23 19:31	10/10/23 05:05	591-78-6	
Iodomethane	**0.0013 U**	mg/kg	0.012	0.0013	1	10/09/23 19:31	10/10/23 05:05	74-88-4	
Isopropylbenzene (Cumene)	**0.0016 U**	mg/kg	0.0061	0.0016	1	10/09/23 19:31	10/10/23 05:05	98-82-8	
Methylene Chloride	**0.0054 U**	mg/kg	0.0061	0.0054	1	10/09/23 19:31	10/10/23 05:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0061 U**	mg/kg	0.031	0.0061	1	10/09/23 19:31	10/10/23 05:05	108-10-1	
Methyl-tert-butyl ether	**0.0018 U**	mg/kg	0.0061	0.0018	1	10/09/23 19:31	10/10/23 05:05	1634-04-4	
Styrene	**0.0031 U**	mg/kg	0.0061	0.0031	1	10/09/23 19:31	10/10/23 05:05	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00075 U**	mg/kg	0.0061	0.00075	1	10/09/23 19:31	10/10/23 05:05	79-34-5	
Tetrachloroethene	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	127-18-4	
Toluene	**0.0024 U**	mg/kg	0.0061	0.0024	1	10/09/23 19:31	10/10/23 05:05	108-88-3	
1,1,1-Trichloroethane	**0.0016 U**	mg/kg	0.0061	0.0016	1	10/09/23 19:31	10/10/23 05:05	71-55-6	
1,1,2-Trichloroethane	**0.00072 U**	mg/kg	0.0061	0.00072	1	10/09/23 19:31	10/10/23 05:05	79-00-5	
Trichloroethene	**0.0015 U**	mg/kg	0.0061	0.0015	1	10/09/23 19:31	10/10/23 05:05	79-01-6	
Trichlorofluoromethane	**0.0031 U**	mg/kg	0.0061	0.0031	1	10/09/23 19:31	10/10/23 05:05	75-69-4	
1,2,3-Trichloropropane	**0.0018 U**	mg/kg	0.0061	0.0018	1	10/09/23 19:31	10/10/23 05:05	96-18-4	
Vinyl acetate	**0.0020 U**	mg/kg	0.0061	0.0020	1	10/09/23 19:31	10/10/23 05:05	108-05-4	
Vinyl chloride	**0.0026 U**	mg/kg	0.0061	0.0026	1	10/09/23 19:31	10/10/23 05:05	75-01-4	
Xylene (Total)	**0.0063 U**	mg/kg	0.018	0.0063	1	10/09/23 19:31	10/10/23 05:05	1330-20-7	
m&p-Xylene	**0.0063 U**	mg/kg	0.012	0.0063	1	10/09/23 19:31	10/10/23 05:05	179601-23-1	
o-Xylene	**0.0012 U**	mg/kg	0.0061	0.0012	1	10/09/23 19:31	10/10/23 05:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	68-125		1	10/09/23 19:31	10/10/23 05:05	460-00-4	
Toluene-d8 (S)	109	%	70-130		1	10/09/23 19:31	10/10/23 05:05	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1	10/09/23 19:31	10/10/23 05:05	2199-69-1	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-002 **Lab ID: 35832847002** Collected: 10/05/23 09:05 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**15.3**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**846000**	mg/kg	10.0	10.0	1		10/08/23 16:58		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**5.0**	%	0.10	0.10	1		10/20/23 09:19		
Total Organic Carbon	**5210**	mg/kg	701	209	1		10/20/23 09:19	7440-44-0	
Total Organic Carbon	**4950**	mg/kg	708	211	1		10/20/23 09:26	7440-44-0	
Mean Total Organic Carbon	**5080**	mg/kg	705	210	1		10/20/23 09:19	7440-44-0	

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0013 U**	mg/kg	0.013	0.0013	1	10/10/23 17:11	10/11/23 14:09	309-00-2	P1
alpha-BHC	**0.00073 U**	mg/kg	0.013	0.00073	1	10/10/23 17:11	10/11/23 14:09	319-84-6	P1
beta-BHC	**0.0016 U**	mg/kg	0.013	0.0016	1	10/10/23 17:11	10/11/23 14:09	319-85-7	P1
delta-BHC	**0.00068 U**	mg/kg	0.013	0.00068	1	10/10/23 17:11	10/11/23 14:09	319-86-8	P1
gamma-BHC (Lindane)	**0.00038 U**	mg/kg	0.013	0.00038	1	10/10/23 17:11	10/11/23 14:09	58-89-9	P1
Chlordane (Technical)	**0.040 U**	mg/kg	0.13	0.040	1	10/10/23 17:11	10/11/23 14:09	57-74-9	P1
4,4'-DDD	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 14:09	72-54-8	P1
4,4'-DDE	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 14:09	72-55-9	P1
4,4'-DDT	**0.00080 U**	mg/kg	0.013	0.00080	1	10/10/23 17:11	10/11/23 14:09	50-29-3	P1
Dieldrin	**0.00051 U**	mg/kg	0.013	0.00051	1	10/10/23 17:11	10/11/23 14:09	60-57-1	P1
Endosulfan I	**0.0015 U**	mg/kg	0.013	0.0015	1	10/10/23 17:11	10/11/23 14:09	959-98-8	P1
Endosulfan II	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 14:09	33213-65-9	P1
Endosulfan sulfate	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 14:09	1031-07-8	P1
Endrin	**0.00084 U**	mg/kg	0.013	0.00084	1	10/10/23 17:11	10/11/23 14:09	72-20-8	P1
Endrin aldehyde	**0.00086 U**	mg/kg	0.027	0.00086	1	10/10/23 17:11	10/11/23 14:09	7421-93-4	P1
Endrin ketone	**0.00062 U**	mg/kg	0.013	0.00062	1	10/10/23 17:11	10/11/23 14:09	53494-70-5	P1
Heptachlor	**0.0014 U**	mg/kg	0.013	0.0014	1	10/10/23 17:11	10/11/23 14:09	76-44-8	P1
Heptachlor epoxide	**0.00057 U**	mg/kg	0.013	0.00057	1	10/10/23 17:11	10/11/23 14:09	1024-57-3	P1
Methoxychlor	**0.0020 U**	mg/kg	0.013	0.0020	1	10/10/23 17:11	10/11/23 14:09	72-43-5	P1
Toxaphene	**0.057 U**	mg/kg	0.13	0.057	1	10/10/23 17:11	10/11/23 14:09	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	70	%	53-140		1	10/10/23 17:11	10/11/23 14:09	877-09-8	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Surrogates									
Decachlorobiphenyl (S)	71	%	43-157		1	10/10/23 17:11	10/11/23 14:09	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**31.1 U**	mg/kg	36.2	31.1	1	10/07/23 15:59	10/09/23 18:55		P1
Surrogates									
o-Terphenyl (S)	95	%	66-136		1	10/07/23 15:59	10/09/23 18:55	84-15-1	
N-Pentatriacontane (S)	107	%	42-159		1	10/07/23 15:59	10/09/23 18:55	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.18 U**	mg/kg	1.2	0.18	20	10/11/23 07:43	10/15/23 23:23	7440-38-2	
Barium	**0.21 U**	mg/kg	1.2	0.21	20	10/11/23 07:43	10/15/23 23:23	7440-39-3	
Cadmium	**0.030 U**	mg/kg	0.14	0.030	20	10/11/23 07:43	10/15/23 23:23	7440-43-9	
Chromium	**0.66 U**	mg/kg	1.2	0.66	20	10/11/23 07:43	10/15/23 23:23	7440-47-3	
Copper	**1.4 I**	mg/kg	2.3	0.59	20	10/11/23 07:43	10/15/23 23:23	7440-50-8	
Lead	**0.42 U**	mg/kg	1.2	0.42	20	10/11/23 07:43	10/15/23 23:23	7439-92-1	
Selenium	**0.59 U**	mg/kg	1.2	0.59	20	10/11/23 07:43	10/15/23 23:23	7782-49-2	
Silver	**0.044 U**	mg/kg	0.14	0.044	20	10/11/23 07:43	10/15/23 23:23	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0055 U**	mg/kg	0.011	0.0055	1	10/18/23 11:06	10/18/23 13:44	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.12 U**	mg/kg	0.27	0.12	1	10/10/23 01:16	10/20/23 19:54	83-32-9	P1
Acenaphthylene	**0.040 U**	mg/kg	0.25	0.040	1	10/10/23 01:16	10/20/23 19:54	208-96-8	P1
Aniline	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 19:54	62-53-3	P1
Anthracene	**0.034 U**	mg/kg	0.27	0.034	1	10/10/23 01:16	10/20/23 19:54	120-12-7	P1
Benzo(a)anthracene	**0.034 U**	mg/kg	0.25	0.034	1	10/10/23 01:16	10/20/23 19:54	56-55-3	P1
Benzo(a)pyrene	**0.063 U**	mg/kg	0.25	0.063	1	10/10/23 01:16	10/20/23 19:54	50-32-8	P1
Benzo(b)fluoranthene	**0.067 U**	mg/kg	0.25	0.067	1	10/10/23 01:16	10/20/23 19:54	205-99-2	P1
Benzo(g,h,i)perylene	**0.063 U**	mg/kg	0.25	0.063	1	10/10/23 01:16	10/20/23 19:54	191-24-2	P1
Benzo(k)fluoranthene	**0.067 U**	mg/kg	0.25	0.067	1	10/10/23 01:16	10/20/23 19:54	207-08-9	P1
Benzyl alcohol	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 19:54	100-51-6	P1
4-Bromophenylphenyl ether	**0.24 U**	mg/kg	1.3	0.24	1	10/10/23 01:16	10/20/23 19:54	101-55-3	P1
Butylbenzylphthalate	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 19:54	85-68-7	P1
4-Chloro-3-methylphenol	**0.75 U**	mg/kg	5.0	0.75	1	10/10/23 01:16	10/20/23 19:54	59-50-7	P1
4-Chloroaniline	**0.19 U**	mg/kg	1.3	0.19	1	10/10/23 01:16	10/20/23 19:54	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 19:54	111-91-1	P1
bis(2-Chloroethyl) ether	**0.082 U**	mg/kg	1.3	0.082	1	10/10/23 01:16	10/20/23 19:54	111-44-4	P1
bis(2-Chloroisopropyl) ether	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 19:54	108-60-1	P1

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
2-Chloronaphthalene	**0.060 U**	mg/kg	1.3	0.060	1	10/10/23 01:16	10/20/23 19:54	91-58-7	P1
2-Chlorophenol	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 19:54	95-57-8	P1
4-Chlorophenylphenyl ether	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 19:54	7005-72-3	P1
Chrysene	**0.034 U**	mg/kg	0.25	0.034	1	10/10/23 01:16	10/20/23 19:54	218-01-9	P1
Dibenz(a,h)anthracene	**0.058 U**	mg/kg	0.25	0.058	1	10/10/23 01:16	10/20/23 19:54	53-70-3	P1
Dibenzofuran	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/20/23 19:54	132-64-9	P1
1,2-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 19:54	95-50-1	P1
1,3-Dichlorobenzene	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 19:54	541-73-1	P1
1,4-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 19:54	106-46-7	P1
3,3'-Dichlorobenzidine	**0.25 U**	mg/kg	5.0	0.25	1	10/10/23 01:16	10/20/23 19:54	91-94-1	P1
2,4-Dichlorophenol	**0.056 U**	mg/kg	1.3	0.056	1	10/10/23 01:16	10/20/23 19:54	120-83-2	P1
Diethylphthalate	**0.42 U**	mg/kg	1.3	0.42	1	10/10/23 01:16	10/20/23 19:54	84-66-2	P1
2,4-Dimethylphenol	**0.22 U**	mg/kg	1.3	0.22	1	10/10/23 01:16	10/20/23 19:54	105-67-9	P1
Dimethylphthalate	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 19:54	131-11-3	P1
Di-n-butylphthalate	**0.99 U**	mg/kg	1.3	0.99	1	10/10/23 01:16	10/20/23 19:54	84-74-2	P1
4,6-Dinitro-2-methylphenol	**1.7 U**	mg/kg	5.0	1.7	1	10/10/23 01:16	10/20/23 19:54	534-52-1	P1
2,4-Dinitrophenol	**0.75 U**	mg/kg	5.0	0.75	1	10/10/23 01:16	10/20/23 19:54	51-28-5	P1
2,4-Dinitrotoluene	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/20/23 19:54	121-14-2	P1
2,6-Dinitrotoluene	**0.061 U**	mg/kg	1.3	0.061	1	10/10/23 01:16	10/20/23 19:54	606-20-2	P1
Di-n-octylphthalate	**0.31 U**	mg/kg	1.3	0.31	1	10/10/23 01:16	10/20/23 19:54	117-84-0	P1
1,2-Diphenylhydrazine	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/20/23 19:54	122-66-7	P1
bis(2-Ethylhexyl)phthalate	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 19:54	117-81-7	P1
Fluoranthene	**0.082 U**	mg/kg	0.25	0.082	1	10/10/23 01:16	10/20/23 19:54	206-44-0	P1
Fluorene	**0.089 U**	mg/kg	0.28	0.089	1	10/10/23 01:16	10/20/23 19:54	86-73-7	P1
Hexachloro-1,3-butadiene	**0.089 U**	mg/kg	1.3	0.089	1	10/10/23 01:16	10/20/23 19:54	87-68-3	P1
Hexachlorobenzene	**0.050 U**	mg/kg	1.3	0.050	1	10/10/23 01:16	10/20/23 19:54	118-74-1	P1
Hexachlorocyclopentadiene	**0.92 U**	mg/kg	5.0	0.92	1	10/10/23 01:16	10/20/23 19:54	77-47-4	J(v2),P1
Hexachloroethane	**0.19 U**	mg/kg	1.3	0.19	1	10/10/23 01:16	10/20/23 19:54	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.057 U**	mg/kg	0.25	0.057	1	10/10/23 01:16	10/20/23 19:54	193-39-5	P1
Isophorone	**0.22 U**	mg/kg	1.3	0.22	1	10/10/23 01:16	10/20/23 19:54	78-59-1	P1
1-Methylnaphthalene	**0.042 U**	mg/kg	0.30	0.042	1	10/10/23 01:16	10/20/23 19:54	90-12-0	P1
2-Methylnaphthalene	**0.040 U**	mg/kg	0.29	0.040	1	10/10/23 01:16	10/20/23 19:54	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.060 U**	mg/kg	1.3	0.060	1	10/10/23 01:16	10/20/23 19:54	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.057 U**	mg/kg	1.3	0.057	1	10/10/23 01:16	10/20/23 19:54		P1
Naphthalene	**0.089 U**	mg/kg	0.26	0.089	1	10/10/23 01:16	10/20/23 19:54	91-20-3	P1
2-Nitroaniline	**0.31 U**	mg/kg	1.3	0.31	1	10/10/23 01:16	10/20/23 19:54	88-74-4	P1
3-Nitroaniline	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/20/23 19:54	99-09-2	P1
4-Nitroaniline	**0.063 U**	mg/kg	1.3	0.063	1	10/10/23 01:16	10/20/23 19:54	100-01-6	P1
Nitrobenzene	**0.084 U**	mg/kg	1.3	0.084	1	10/10/23 01:16	10/20/23 19:54	98-95-3	P1
2-Nitrophenol	**0.40 U**	mg/kg	1.3	0.40	1	10/10/23 01:16	10/20/23 19:54	88-75-5	P1
4-Nitrophenol	**0.54 U**	mg/kg	1.6	0.54	1	10/10/23 01:16	10/20/23 19:54	100-02-7	P1
N-Nitrosodimethylamine	**0.082 U**	mg/kg	1.3	0.082	1	10/10/23 01:16	10/20/23 19:54	62-75-9	P1
N-Nitroso-di-n-propylamine	**0.049 U**	mg/kg	1.3	0.049	1	10/10/23 01:16	10/20/23 19:54	621-64-7	P1
N-Nitrosodiphenylamine	**0.16 U**	mg/kg	1.3	0.16	1	10/10/23 01:16	10/20/23 19:54	86-30-6	P1

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Pentachlorophenol	**0.65 U**	mg/kg	5.0	0.65	1	10/10/23 01:16	10/20/23 19:54	87-86-5	P1
Phenanthrene	**0.036 U**	mg/kg	0.25	0.036	1	10/10/23 01:16	10/20/23 19:54	85-01-8	P1
Phenol	**0.24 U**	mg/kg	1.3	0.24	1	10/10/23 01:16	10/20/23 19:54	108-95-2	P1
Pyrene	**0.074 U**	mg/kg	0.25	0.074	1	10/10/23 01:16	10/20/23 19:54	129-00-0	P1
1,2,4-Trichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 19:54	120-82-1	P1
2,4,5-Trichlorophenol	**0.050 U**	mg/kg	1.3	0.050	1	10/10/23 01:16	10/20/23 19:54	95-95-4	P1
2,4,6-Trichlorophenol	**0.069 U**	mg/kg	1.3	0.069	1	10/10/23 01:16	10/20/23 19:54	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	71	%	24-98		1	10/10/23 01:16	10/20/23 19:54	4165-60-0	
2-Fluorobiphenyl (S)	70	%	29-101		1	10/10/23 01:16	10/20/23 19:54	321-60-8	
p-Terphenyl-d14 (S)	72	%	29-112		1	10/10/23 01:16	10/20/23 19:54	1718-51-0	
Phenol-d6 (S)	68	%	10-104		1	10/10/23 01:16	10/20/23 19:54	13127-88-3	
2-Fluorophenol (S)	67	%	19-95		1	10/10/23 01:16	10/20/23 19:54	367-12-4	
2,4,6-Tribromophenol (S)	70	%	23-110		1	10/10/23 01:16	10/20/23 19:54	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.19**	mg/kg	0.058	0.025	1	10/09/23 19:31	10/10/23 05:29	67-64-1	
Acetonitrile	**0.017 U**	mg/kg	0.058	0.017	1	10/09/23 19:31	10/10/23 05:29	75-05-8	
Benzene	**0.0012 U**	mg/kg	0.0058	0.0012	1	10/09/23 19:31	10/10/23 05:29	71-43-2	
Bromochloromethane	**0.00086 U**	mg/kg	0.0058	0.00086	1	10/09/23 19:31	10/10/23 05:29	74-97-5	J(v1)
Bromodichloromethane	**0.0013 U**	mg/kg	0.0058	0.0013	1	10/09/23 19:31	10/10/23 05:29	75-27-4	
Bromoform	**0.0013 U**	mg/kg	0.0058	0.0013	1	10/09/23 19:31	10/10/23 05:29	75-25-2	
Bromomethane	**0.0021 U**	mg/kg	0.0058	0.0021	1	10/09/23 19:31	10/10/23 05:29	74-83-9	
2-Butanone (MEK)	**0.0058 U**	mg/kg	0.058	0.0058	1	10/09/23 19:31	10/10/23 05:29	78-93-3	
Carbon disulfide	**0.0029 U**	mg/kg	0.0058	0.0029	1	10/09/23 19:31	10/10/23 05:29	75-15-0	J(v1)
Carbon tetrachloride	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	56-23-5	
Chlorobenzene	**0.0011 U**	mg/kg	0.0058	0.0011	1	10/09/23 19:31	10/10/23 05:29	108-90-7	
Chloroethane	**0.0024 U**	mg/kg	0.0058	0.0024	1	10/09/23 19:31	10/10/23 05:29	75-00-3	
Chloroform	**0.0021 U**	mg/kg	0.0058	0.0021	1	10/09/23 19:31	10/10/23 05:29	67-66-3	
Chloromethane	**0.0023 U**	mg/kg	0.0058	0.0023	1	10/09/23 19:31	10/10/23 05:29	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	96-12-8	
Dibromochloromethane	**0.0010 U**	mg/kg	0.0058	0.0010	1	10/09/23 19:31	10/10/23 05:29	124-48-1	
1,2-Dibromoethane (EDB)	**0.00086 U**	mg/kg	0.0058	0.00086	1	10/09/23 19:31	10/10/23 05:29	106-93-4	
Dibromomethane	**0.00082 U**	mg/kg	0.0058	0.00082	1	10/09/23 19:31	10/10/23 05:29	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00088 U**	mg/kg	0.0058	0.00088	1	10/09/23 19:31	10/10/23 05:29	95-50-1	
1,4-Dichlorobenzene	**0.00077 U**	mg/kg	0.0058	0.00077	1	10/09/23 19:31	10/10/23 05:29	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	110-57-6	
1,1-Dichloroethane	**0.0011 U**	mg/kg	0.0058	0.0011	1	10/09/23 19:31	10/10/23 05:29	75-34-3	
1,2-Dichloroethane	**0.00089 U**	mg/kg	0.0058	0.00089	1	10/09/23 19:31	10/10/23 05:29	107-06-2	
1,2-Dichloroethene (Total)	**0.0035 U**	mg/kg	0.0058	0.0035	1	10/09/23 19:31	10/10/23 05:29	540-59-0	
1,1-Dichloroethene	**0.0029 U**	mg/kg	0.0058	0.0029	1	10/09/23 19:31	10/10/23 05:29	75-35-4	
cis-1,2-Dichloroethene	**0.0013 U**	mg/kg	0.0058	0.0013	1	10/09/23 19:31	10/10/23 05:29	156-59-2	
trans-1,2-Dichloroethene	**0.0015 U**	mg/kg	0.0058	0.0015	1	10/09/23 19:31	10/10/23 05:29	156-60-5	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035								
	Pace Analytical Services - Ormond Beach								
1,2-Dichloropropane	**0.0011 U**	mg/kg	0.0058	0.0011	1	10/09/23 19:31	10/10/23 05:29	78-87-5	
cis-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0058	0.0012	1	10/09/23 19:31	10/10/23 05:29	10061-01-5	
trans-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0058	0.0011	1	10/09/23 19:31	10/10/23 05:29	10061-02-6	
Ethylbenzene	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	100-41-4	
2-Hexanone	**0.0058 U**	mg/kg	0.029	0.0058	1	10/09/23 19:31	10/10/23 05:29	591-78-6	
Iodomethane	**0.0013 U**	mg/kg	0.012	0.0013	1	10/09/23 19:31	10/10/23 05:29	74-88-4	
Isopropylbenzene (Cumene)	**0.0015 U**	mg/kg	0.0058	0.0015	1	10/09/23 19:31	10/10/23 05:29	98-82-8	
Methylene Chloride	**0.0051 U**	mg/kg	0.0058	0.0051	1	10/09/23 19:31	10/10/23 05:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0058 U**	mg/kg	0.029	0.0058	1	10/09/23 19:31	10/10/23 05:29	108-10-1	
Methyl-tert-butyl ether	**0.0017 U**	mg/kg	0.0058	0.0017	1	10/09/23 19:31	10/10/23 05:29	1634-04-4	
Styrene	**0.0029 U**	mg/kg	0.0058	0.0029	1	10/09/23 19:31	10/10/23 05:29	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0012 U**	mg/kg	0.0058	0.0012	1	10/09/23 19:31	10/10/23 05:29	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00071 U**	mg/kg	0.0058	0.00071	1	10/09/23 19:31	10/10/23 05:29	79-34-5	
Tetrachloroethene	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	127-18-4	
Toluene	**0.0023 U**	mg/kg	0.0058	0.0023	1	10/09/23 19:31	10/10/23 05:29	108-88-3	
1,1,1-Trichloroethane	**0.0015 U**	mg/kg	0.0058	0.0015	1	10/09/23 19:31	10/10/23 05:29	71-55-6	
1,1,2-Trichloroethane	**0.00068 U**	mg/kg	0.0058	0.00068	1	10/09/23 19:31	10/10/23 05:29	79-00-5	
Trichloroethene	**0.0014 U**	mg/kg	0.0058	0.0014	1	10/09/23 19:31	10/10/23 05:29	79-01-6	
Trichlorofluoromethane	**0.0029 U**	mg/kg	0.0058	0.0029	1	10/09/23 19:31	10/10/23 05:29	75-69-4	
1,2,3-Trichloropropane	**0.0017 U**	mg/kg	0.0058	0.0017	1	10/09/23 19:31	10/10/23 05:29	96-18-4	
Vinyl acetate	**0.0019 U**	mg/kg	0.0058	0.0019	1	10/09/23 19:31	10/10/23 05:29	108-05-4	
Vinyl chloride	**0.0024 U**	mg/kg	0.0058	0.0024	1	10/09/23 19:31	10/10/23 05:29	75-01-4	
Xylene (Total)	**0.0059 U**	mg/kg	0.017	0.0059	1	10/09/23 19:31	10/10/23 05:29	1330-20-7	
m&p-Xylene	**0.0059 U**	mg/kg	0.012	0.0059	1	10/09/23 19:31	10/10/23 05:29	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0058	0.0011	1	10/09/23 19:31	10/10/23 05:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	68-125		1	10/09/23 19:31	10/10/23 05:29	460-00-4	
Toluene-d8 (S)	110	%	70-130		1	10/09/23 19:31	10/10/23 05:29	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1	10/09/23 19:31	10/10/23 05:29	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Ormond Beach								
Percent Moisture	**21.4**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G								
	Pace Analytical Services - Ormond Beach								
Total Solids	**735000**	mg/kg	10.0	10.0	1		10/08/23 16:58		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
	Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**4.1**	%	0.10	0.10	1		10/20/23 09:31		
Total Organic Carbon	**699 I**	mg/kg	764	228	1		10/20/23 09:31	7440-44-0	
Total Organic Carbon	**670 I**	mg/kg	769	229	1		10/20/23 09:36	7440-44-0	

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-003 **Lab ID: 35832847003** Collected: 10/05/23 09:15 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Mean Total Organic Carbon	**684 I**	mg/kg	766	229	1		10/20/23 09:31	7440-44-0	

Sample: 2310221-004 **Lab ID: 35832847004** Collected: 10/05/23 09:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0013 U**	mg/kg	0.013	0.0013	1	10/10/23 17:11	10/11/23 14:22	309-00-2	P1
alpha-BHC	**0.00071 U**	mg/kg	0.013	0.00071	1	10/10/23 17:11	10/11/23 14:22	319-84-6	P1
beta-BHC	**0.0016 U**	mg/kg	0.013	0.0016	1	10/10/23 17:11	10/11/23 14:22	319-85-7	P1
delta-BHC	**0.00067 U**	mg/kg	0.013	0.00067	1	10/10/23 17:11	10/11/23 14:22	319-86-8	P1
gamma-BHC (Lindane)	**0.00038 U**	mg/kg	0.013	0.00038	1	10/10/23 17:11	10/11/23 14:22	58-89-9	P1
Chlordane (Technical)	**0.039 U**	mg/kg	0.13	0.039	1	10/10/23 17:11	10/11/23 14:22	57-74-9	P1
4,4'-DDD	**0.00058 U**	mg/kg	0.013	0.00058	1	10/10/23 17:11	10/11/23 14:22	72-54-8	P1
4,4'-DDE	**0.00051 U**	mg/kg	0.013	0.00051	1	10/10/23 17:11	10/11/23 14:22	72-55-9	P1
4,4'-DDT	**0.00078 U**	mg/kg	0.013	0.00078	1	10/10/23 17:11	10/11/23 14:22	50-29-3	P1
Dieldrin	**0.00050 U**	mg/kg	0.013	0.00050	1	10/10/23 17:11	10/11/23 14:22	60-57-1	P1
Endosulfan I	**0.0015 U**	mg/kg	0.013	0.0015	1	10/10/23 17:11	10/11/23 14:22	959-98-8	P1
Endosulfan II	**0.00058 U**	mg/kg	0.013	0.00058	1	10/10/23 17:11	10/11/23 14:22	33213-65-9	P1
Endosulfan sulfate	**0.00051 U**	mg/kg	0.013	0.00051	1	10/10/23 17:11	10/11/23 14:22	1031-07-8	P1
Endrin	**0.00082 U**	mg/kg	0.013	0.00082	1	10/10/23 17:11	10/11/23 14:22	72-20-8	P1
Endrin aldehyde	**0.00084 U**	mg/kg	0.026	0.00084	1	10/10/23 17:11	10/11/23 14:22	7421-93-4	P1
Endrin ketone	**0.00061 U**	mg/kg	0.013	0.00061	1	10/10/23 17:11	10/11/23 14:22	53494-70-5	P1
Heptachlor	**0.0014 U**	mg/kg	0.013	0.0014	1	10/10/23 17:11	10/11/23 14:22	76-44-8	P1
Heptachlor epoxide	**0.00056 U**	mg/kg	0.013	0.00056	1	10/10/23 17:11	10/11/23 14:22	1024-57-3	P1
Methoxychlor	**0.0019 U**	mg/kg	0.013	0.0019	1	10/10/23 17:11	10/11/23 14:22	72-43-5	P1
Toxaphene	**0.056 U**	mg/kg	0.13	0.056	1	10/10/23 17:11	10/11/23 14:22	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	97	%	53-140		1	10/10/23 17:11	10/11/23 14:22	877-09-8	
Decachlorobiphenyl (S)	95	%	43-157		1	10/10/23 17:11	10/11/23 14:22	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**30.8 U**	mg/kg	35.8	30.8	1	10/07/23 15:59	10/09/23 19:09		P1
Surrogates									
o-Terphenyl (S)	91	%	66-136		1	10/07/23 15:59	10/09/23 19:09	84-15-1	
N-Pentatriacontane (S)	99	%	42-159		1	10/07/23 15:59	10/09/23 19:09	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.22 U**	mg/kg	1.4	0.22	20	10/11/23 07:43	10/15/23 23:36	7440-38-2	

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-004 **Lab ID: 35832847004** Collected: 10/05/23 09:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Barium	**0.41 I**	mg/kg	1.4	0.26	20	10/11/23 07:43	10/15/23 23:36	7440-39-3	
Cadmium	**0.037 U**	mg/kg	0.17	0.037	20	10/11/23 07:43	10/15/23 23:36	7440-43-9	
Chromium	**0.81 U**	mg/kg	1.4	0.81	20	10/11/23 07:43	10/15/23 23:36	7440-47-3	
Copper	**0.72 U**	mg/kg	2.8	0.72	20	10/11/23 07:43	10/15/23 23:36	7440-50-8	
Lead	**0.51 U**	mg/kg	1.4	0.51	20	10/11/23 07:43	10/15/23 23:36	7439-92-1	
Selenium	**0.73 U**	mg/kg	1.4	0.73	20	10/11/23 07:43	10/15/23 23:36	7782-49-2	
Silver	**0.054 U**	mg/kg	0.17	0.054	20	10/11/23 07:43	10/15/23 23:36	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0051 U**	mg/kg	0.010	0.0051	1	10/18/23 11:06	10/18/23 13:46	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.12 U**	mg/kg	0.27	0.12	1	10/10/23 01:16	10/20/23 20:19	83-32-9	P1
Acenaphthylene	**0.040 U**	mg/kg	0.26	0.040	1	10/10/23 01:16	10/20/23 20:19	208-96-8	P1
Aniline	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 20:19	62-53-3	P1
Anthracene	**0.035 U**	mg/kg	0.27	0.035	1	10/10/23 01:16	10/20/23 20:19	120-12-7	P1
Benzo(a)anthracene	**0.034 U**	mg/kg	0.26	0.034	1	10/10/23 01:16	10/20/23 20:19	56-55-3	P1
Benzo(a)pyrene	**0.063 U**	mg/kg	0.26	0.063	1	10/10/23 01:16	10/20/23 20:19	50-32-8	P1
Benzo(b)fluoranthene	**0.068 U**	mg/kg	0.26	0.068	1	10/10/23 01:16	10/20/23 20:19	205-99-2	P1
Benzo(g,h,i)perylene	**0.064 U**	mg/kg	0.26	0.064	1	10/10/23 01:16	10/20/23 20:19	191-24-2	P1
Benzo(k)fluoranthene	**0.068 U**	mg/kg	0.26	0.068	1	10/10/23 01:16	10/20/23 20:19	207-08-9	P1
Benzyl alcohol	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 20:19	100-51-6	P1
4-Bromophenylphenyl ether	**0.24 U**	mg/kg	1.3	0.24	1	10/10/23 01:16	10/20/23 20:19	101-55-3	P1
Butylbenzylphthalate	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 20:19	85-68-7	P1
4-Chloro-3-methylphenol	**0.76 U**	mg/kg	5.1	0.76	1	10/10/23 01:16	10/20/23 20:19	59-50-7	P1
4-Chloroaniline	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 20:19	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 20:19	111-91-1	P1
bis(2-Chloroethyl) ether	**0.083 U**	mg/kg	1.3	0.083	1	10/10/23 01:16	10/20/23 20:19	111-44-4	P1
bis(2-Chloroisopropyl) ether	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 20:19	108-60-1	P1
2-Chloronaphthalene	**0.060 U**	mg/kg	1.3	0.060	1	10/10/23 01:16	10/20/23 20:19	91-58-7	P1
2-Chlorophenol	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 20:19	95-57-8	P1
4-Chlorophenylphenyl ether	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 20:19	7005-72-3	P1
Chrysene	**0.034 U**	mg/kg	0.26	0.034	1	10/10/23 01:16	10/20/23 20:19	218-01-9	P1
Dibenz(a,h)anthracene	**0.059 U**	mg/kg	0.26	0.059	1	10/10/23 01:16	10/20/23 20:19	53-70-3	P1
Dibenzofuran	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/20/23 20:19	132-64-9	P1
1,2-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 20:19	95-50-1	P1
1,3-Dichlorobenzene	**0.25 U**	mg/kg	1.3	0.25	1	10/10/23 01:16	10/20/23 20:19	541-73-1	P1
1,4-Dichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 20:19	106-46-7	P1
3,3'-Dichlorobenzidine	**0.25 U**	mg/kg	5.1	0.25	1	10/10/23 01:16	10/20/23 20:19	91-94-1	P1
2,4-Dichlorophenol	**0.057 U**	mg/kg	1.3	0.057	1	10/10/23 01:16	10/20/23 20:19	120-83-2	P1
Diethylphthalate	**0.43 U**	mg/kg	1.3	0.43	1	10/10/23 01:16	10/20/23 20:19	84-66-2	P1
2,4-Dimethylphenol	**0.23 U**	mg/kg	1.3	0.23	1	10/10/23 01:16	10/20/23 20:19	105-67-9	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-004 **Lab ID: 35832847004** Collected: 10/05/23 09:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Dimethylphthalate	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 20:19	131-11-3	P1
Di-n-butylphthalate	**1.0 U**	mg/kg	1.3	1.0	1	10/10/23 01:16	10/20/23 20:19	84-74-2	P1
4,6-Dinitro-2-methylphenol	**1.7 U**	mg/kg	5.1	1.7	1	10/10/23 01:16	10/20/23 20:19	534-52-1	P1
2,4-Dinitrophenol	**0.76 U**	mg/kg	5.1	0.76	1	10/10/23 01:16	10/20/23 20:19	51-28-5	P1
2,4-Dinitrotoluene	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/20/23 20:19	121-14-2	P1
2,6-Dinitrotoluene	**0.062 U**	mg/kg	1.3	0.062	1	10/10/23 01:16	10/20/23 20:19	606-20-2	P1
Di-n-octylphthalate	**0.31 U**	mg/kg	1.3	0.31	1	10/10/23 01:16	10/20/23 20:19	117-84-0	P1
1,2-Diphenylhydrazine	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/20/23 20:19	122-66-7	P1
bis(2-Ethylhexyl)phthalate	**0.26 U**	mg/kg	1.3	0.26	1	10/10/23 01:16	10/20/23 20:19	117-81-7	P1
Fluoranthene	**0.083 U**	mg/kg	0.26	0.083	1	10/10/23 01:16	10/20/23 20:19	206-44-0	P1
Fluorene	**0.091 U**	mg/kg	0.28	0.091	1	10/10/23 01:16	10/20/23 20:19	86-73-7	P1
Hexachloro-1,3-butadiene	**0.091 U**	mg/kg	1.3	0.091	1	10/10/23 01:16	10/20/23 20:19	87-68-3	P1
Hexachlorobenzene	**0.050 U**	mg/kg	1.3	0.050	1	10/10/23 01:16	10/20/23 20:19	118-74-1	P1
Hexachlorocyclopentadiene	**0.93 U**	mg/kg	5.1	0.93	1	10/10/23 01:16	10/20/23 20:19	77-47-4	J(v2),P1
Hexachloroethane	**0.20 U**	mg/kg	1.3	0.20	1	10/10/23 01:16	10/20/23 20:19	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.058 U**	mg/kg	0.26	0.058	1	10/10/23 01:16	10/20/23 20:19	193-39-5	P1
Isophorone	**0.22 U**	mg/kg	1.3	0.22	1	10/10/23 01:16	10/20/23 20:19	78-59-1	P1
1-Methylnaphthalene	**0.042 U**	mg/kg	0.30	0.042	1	10/10/23 01:16	10/20/23 20:19	90-12-0	P1
2-Methylnaphthalene	**0.040 U**	mg/kg	0.29	0.040	1	10/10/23 01:16	10/20/23 20:19	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.061 U**	mg/kg	1.3	0.061	1	10/10/23 01:16	10/20/23 20:19	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.058 U**	mg/kg	1.3	0.058	1	10/10/23 01:16	10/20/23 20:19		P1
Naphthalene	**0.091 U**	mg/kg	0.26	0.091	1	10/10/23 01:16	10/20/23 20:19	91-20-3	P1
2-Nitroaniline	**0.32 U**	mg/kg	1.3	0.32	1	10/10/23 01:16	10/20/23 20:19	88-74-4	P1
3-Nitroaniline	**0.28 U**	mg/kg	1.3	0.28	1	10/10/23 01:16	10/20/23 20:19	99-09-2	P1
4-Nitroaniline	**0.064 U**	mg/kg	1.3	0.064	1	10/10/23 01:16	10/20/23 20:19	100-01-6	P1
Nitrobenzene	**0.085 U**	mg/kg	1.3	0.085	1	10/10/23 01:16	10/20/23 20:19	98-95-3	P1
2-Nitrophenol	**0.41 U**	mg/kg	1.3	0.41	1	10/10/23 01:16	10/20/23 20:19	88-75-5	P1
4-Nitrophenol	**0.55 U**	mg/kg	1.6	0.55	1	10/10/23 01:16	10/20/23 20:19	100-02-7	P1
N-Nitrosodimethylamine	**0.083 U**	mg/kg	1.3	0.083	1	10/10/23 01:16	10/20/23 20:19	62-75-9	P1
N-Nitroso-di-n-propylamine	**0.050 U**	mg/kg	1.3	0.050	1	10/10/23 01:16	10/20/23 20:19	621-64-7	P1
N-Nitrosodiphenylamine	**0.17 U**	mg/kg	1.3	0.17	1	10/10/23 01:16	10/20/23 20:19	86-30-6	P1
Pentachlorophenol	**0.66 U**	mg/kg	5.1	0.66	1	10/10/23 01:16	10/20/23 20:19	87-86-5	P1
Phenanthrene	**0.036 U**	mg/kg	0.26	0.036	1	10/10/23 01:16	10/20/23 20:19	85-01-8	P1
Phenol	**0.24 U**	mg/kg	1.3	0.24	1	10/10/23 01:16	10/20/23 20:19	108-95-2	P1
Pyrene	**0.075 U**	mg/kg	0.26	0.075	1	10/10/23 01:16	10/20/23 20:19	129-00-0	P1
1,2,4-Trichlorobenzene	**0.18 U**	mg/kg	1.3	0.18	1	10/10/23 01:16	10/20/23 20:19	120-82-1	P1
2,4,5-Trichlorophenol	**0.051 U**	mg/kg	1.3	0.051	1	10/10/23 01:16	10/20/23 20:19	95-95-4	P1
2,4,6-Trichlorophenol	**0.070 U**	mg/kg	1.3	0.070	1	10/10/23 01:16	10/20/23 20:19	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	77	%	24-98		1	10/10/23 01:16	10/20/23 20:19	4165-60-0	
2-Fluorobiphenyl (S)	77	%	29-101		1	10/10/23 01:16	10/20/23 20:19	321-60-8	
p-Terphenyl-d14 (S)	89	%	29-112		1	10/10/23 01:16	10/20/23 20:19	1718-51-0	
Phenol-d6 (S)	72	%	10-104		1	10/10/23 01:16	10/20/23 20:19	13127-88-3	
2-Fluorophenol (S)	73	%	19-95		1	10/10/23 01:16	10/20/23 20:19	367-12-4	

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-004 **Lab ID: 35832847004** Collected: 10/05/23 09:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Surrogates									
2,4,6-Tribromophenol (S)	74	%	23-110		1	10/10/23 01:16	10/20/23 20:19	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.18**	mg/kg	0.053	0.023	1	10/09/23 19:31	10/10/23 05:52	67-64-1	
Acetonitrile	**0.016 U**	mg/kg	0.053	0.016	1	10/09/23 19:31	10/10/23 05:52	75-05-8	
Benzene	**0.0011 U**	mg/kg	0.0053	0.0011	1	10/09/23 19:31	10/10/23 05:52	71-43-2	
Bromochloromethane	**0.00079 U**	mg/kg	0.0053	0.00079	1	10/09/23 19:31	10/10/23 05:52	74-97-5	J(v1)
Bromodichloromethane	**0.0012 U**	mg/kg	0.0053	0.0012	1	10/09/23 19:31	10/10/23 05:52	75-27-4	
Bromoform	**0.0012 U**	mg/kg	0.0053	0.0012	1	10/09/23 19:31	10/10/23 05:52	75-25-2	
Bromomethane	**0.0019 U**	mg/kg	0.0053	0.0019	1	10/09/23 19:31	10/10/23 05:52	74-83-9	
2-Butanone (MEK)	**0.0053 U**	mg/kg	0.053	0.0053	1	10/09/23 19:31	10/10/23 05:52	78-93-3	
Carbon disulfide	**0.0027 U**	mg/kg	0.0053	0.0027	1	10/09/23 19:31	10/10/23 05:52	75-15-0	J(v1)
Carbon tetrachloride	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	56-23-5	
Chlorobenzene	**0.00099 U**	mg/kg	0.0053	0.00099	1	10/09/23 19:31	10/10/23 05:52	108-90-7	
Chloroethane	**0.0022 U**	mg/kg	0.0053	0.0022	1	10/09/23 19:31	10/10/23 05:52	75-00-3	
Chloroform	**0.0019 U**	mg/kg	0.0053	0.0019	1	10/09/23 19:31	10/10/23 05:52	67-66-3	
Chloromethane	**0.0021 U**	mg/kg	0.0053	0.0021	1	10/09/23 19:31	10/10/23 05:52	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	96-12-8	
Dibromochloromethane	**0.00092 U**	mg/kg	0.0053	0.00092	1	10/09/23 19:31	10/10/23 05:52	124-48-1	
1,2-Dibromoethane (EDB)	**0.00079 U**	mg/kg	0.0053	0.00079	1	10/09/23 19:31	10/10/23 05:52	106-93-4	
Dibromomethane	**0.00075 U**	mg/kg	0.0053	0.00075	1	10/09/23 19:31	10/10/23 05:52	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00081 U**	mg/kg	0.0053	0.00081	1	10/09/23 19:31	10/10/23 05:52	95-50-1	
1,4-Dichlorobenzene	**0.00071 U**	mg/kg	0.0053	0.00071	1	10/09/23 19:31	10/10/23 05:52	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	110-57-6	
1,1-Dichloroethane	**0.0010 U**	mg/kg	0.0053	0.0010	1	10/09/23 19:31	10/10/23 05:52	75-34-3	
1,2-Dichloroethane	**0.00082 U**	mg/kg	0.0053	0.00082	1	10/09/23 19:31	10/10/23 05:52	107-06-2	
1,2-Dichloroethene (Total)	**0.0032 U**	mg/kg	0.0053	0.0032	1	10/09/23 19:31	10/10/23 05:52	540-59-0	
1,1-Dichloroethene	**0.0027 U**	mg/kg	0.0053	0.0027	1	10/09/23 19:31	10/10/23 05:52	75-35-4	
cis-1,2-Dichloroethene	**0.0012 U**	mg/kg	0.0053	0.0012	1	10/09/23 19:31	10/10/23 05:52	156-59-2	
trans-1,2-Dichloroethene	**0.0014 U**	mg/kg	0.0053	0.0014	1	10/09/23 19:31	10/10/23 05:52	156-60-5	
1,2-Dichloropropane	**0.00098 U**	mg/kg	0.0053	0.00098	1	10/09/23 19:31	10/10/23 05:52	78-87-5	
cis-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0053	0.0011	1	10/09/23 19:31	10/10/23 05:52	10061-01-5	
trans-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0053	0.0011	1	10/09/23 19:31	10/10/23 05:52	10061-02-6	
Ethylbenzene	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	100-41-4	
2-Hexanone	**0.0053 U**	mg/kg	0.027	0.0053	1	10/09/23 19:31	10/10/23 05:52	591-78-6	
Iodomethane	**0.0012 U**	mg/kg	0.011	0.0012	1	10/09/23 19:31	10/10/23 05:52	74-88-4	
Isopropylbenzene (Cumene)	**0.0014 U**	mg/kg	0.0053	0.0014	1	10/09/23 19:31	10/10/23 05:52	98-82-8	
Methylene Chloride	**0.0047 U**	mg/kg	0.0053	0.0047	1	10/09/23 19:31	10/10/23 05:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0053 U**	mg/kg	0.027	0.0053	1	10/09/23 19:31	10/10/23 05:52	108-10-1	
Methyl-tert-butyl ether	**0.0016 U**	mg/kg	0.0053	0.0016	1	10/09/23 19:31	10/10/23 05:52	1634-04-4	
Styrene	**0.0027 U**	mg/kg	0.0053	0.0027	1	10/09/23 19:31	10/10/23 05:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0011 U**	mg/kg	0.0053	0.0011	1	10/09/23 19:31	10/10/23 05:52	630-20-6	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-004 **Lab ID: 35832847004** Collected: 10/05/23 09:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
1,1,2,2-Tetrachloroethane	**0.00065 U**	mg/kg	0.0053	0.00065	1	10/09/23 19:31	10/10/23 05:52	79-34-5	
Tetrachloroethene	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	127-18-4	
Toluene	**0.0021 U**	mg/kg	0.0053	0.0021	1	10/09/23 19:31	10/10/23 05:52	108-88-3	
1,1,1-Trichloroethane	**0.0014 U**	mg/kg	0.0053	0.0014	1	10/09/23 19:31	10/10/23 05:52	71-55-6	
1,1,2-Trichloroethane	**0.00063 U**	mg/kg	0.0053	0.00063	1	10/09/23 19:31	10/10/23 05:52	79-00-5	
Trichloroethene	**0.0013 U**	mg/kg	0.0053	0.0013	1	10/09/23 19:31	10/10/23 05:52	79-01-6	
Trichlorofluoromethane	**0.0027 U**	mg/kg	0.0053	0.0027	1	10/09/23 19:31	10/10/23 05:52	75-69-4	
1,2,3-Trichloropropane	**0.0016 U**	mg/kg	0.0053	0.0016	1	10/09/23 19:31	10/10/23 05:52	96-18-4	
Vinyl acetate	**0.0017 U**	mg/kg	0.0053	0.0017	1	10/09/23 19:31	10/10/23 05:52	108-05-4	
Vinyl chloride	**0.0022 U**	mg/kg	0.0053	0.0022	1	10/09/23 19:31	10/10/23 05:52	75-01-4	
Xylene (Total)	**0.0055 U**	mg/kg	0.016	0.0055	1	10/09/23 19:31	10/10/23 05:52	1330-20-7	
m&p-Xylene	**0.0055 U**	mg/kg	0.011	0.0055	1	10/09/23 19:31	10/10/23 05:52	179601-23-1	
o-Xylene	**0.0010 U**	mg/kg	0.0053	0.0010	1	10/09/23 19:31	10/10/23 05:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	68-125		1	10/09/23 19:31	10/10/23 05:52	460-00-4	
Toluene-d8 (S)	105	%	70-130		1	10/09/23 19:31	10/10/23 05:52	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1	10/09/23 19:31	10/10/23 05:52	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**21.9**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**751000**	mg/kg	10.0	10.0	1		10/08/23 16:58		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**2.4**	%	0.10	0.10	1		10/20/23 09:42		
Total Organic Carbon	**666 I**	mg/kg	771	230	1		10/20/23 09:42	7440-44-0	
Total Organic Carbon	**682 I**	mg/kg	772	230	1		10/20/23 09:48	7440-44-0	
Mean Total Organic Carbon	**674 I**	mg/kg	772	230	1		10/20/23 09:42	7440-44-0	

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0013 U**	mg/kg	0.013	0.0013	1	10/10/23 17:11	10/11/23 14:35	309-00-2	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
alpha-BHC	**0.00072 U**	mg/kg	0.013	0.00072	1	10/10/23 17:11	10/11/23 14:35	319-84-6	P1
beta-BHC	**0.0016 U**	mg/kg	0.013	0.0016	1	10/10/23 17:11	10/11/23 14:35	319-85-7	P1
delta-BHC	**0.00067 U**	mg/kg	0.013	0.00067	1	10/10/23 17:11	10/11/23 14:35	319-86-8	P1
gamma-BHC (Lindane)	**0.00038 U**	mg/kg	0.013	0.00038	1	10/10/23 17:11	10/11/23 14:35	58-89-9	P1
Chlordane (Technical)	**0.039 U**	mg/kg	0.13	0.039	1	10/10/23 17:11	10/11/23 14:35	57-74-9	P1
4,4'-DDD	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 14:35	72-54-8	P1
4,4'-DDE	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 14:35	72-55-9	P1
4,4'-DDT	**0.00079 U**	mg/kg	0.013	0.00079	1	10/10/23 17:11	10/11/23 14:35	50-29-3	P1
Dieldrin	**0.00050 U**	mg/kg	0.013	0.00050	1	10/10/23 17:11	10/11/23 14:35	60-57-1	P1
Endosulfan I	**0.0015 U**	mg/kg	0.013	0.0015	1	10/10/23 17:11	10/11/23 14:35	959-98-8	P1
Endosulfan II	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 14:35	33213-65-9	P1
Endosulfan sulfate	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 14:35	1031-07-8	P1
Endrin	**0.00082 U**	mg/kg	0.013	0.00082	1	10/10/23 17:11	10/11/23 14:35	72-20-8	P1
Endrin aldehyde	**0.00085 U**	mg/kg	0.026	0.00085	1	10/10/23 17:11	10/11/23 14:35	7421-93-4	P1
Endrin ketone	**0.00061 U**	mg/kg	0.013	0.00061	1	10/10/23 17:11	10/11/23 14:35	53494-70-5	P1
Heptachlor	**0.0014 U**	mg/kg	0.013	0.0014	1	10/10/23 17:11	10/11/23 14:35	76-44-8	P1
Heptachlor epoxide	**0.00056 U**	mg/kg	0.013	0.00056	1	10/10/23 17:11	10/11/23 14:35	1024-57-3	P1
Methoxychlor	**0.0019 U**	mg/kg	0.013	0.0019	1	10/10/23 17:11	10/11/23 14:35	72-43-5	P1
Toxaphene	**0.057 U**	mg/kg	0.13	0.057	1	10/10/23 17:11	10/11/23 14:35	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	92	%	53-140		1	10/10/23 17:11	10/11/23 14:35	877-09-8	
Decachlorobiphenyl (S)	94	%	43-157		1	10/10/23 17:11	10/11/23 14:35	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**30.8 U**	mg/kg	35.8	30.8	1	10/07/23 15:59	10/09/23 19:23		P1
Surrogates									
o-Terphenyl (S)	78	%	66-136		1	10/07/23 15:59	10/09/23 19:23	84-15-1	
N-Pentatriacontane (S)	88	%	42-159		1	10/07/23 15:59	10/09/23 19:23	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.24 U**	mg/kg	1.5	0.24	20	10/11/23 07:43	10/15/23 23:39	7440-38-2	
Barium	**1.2 I**	mg/kg	1.5	0.28	20	10/11/23 07:43	10/15/23 23:39	7440-39-3	
Cadmium	**0.048 I**	mg/kg	0.18	0.039	20	10/11/23 07:43	10/15/23 23:39	7440-43-9	
Chromium	**0.87 U**	mg/kg	1.5	0.87	20	10/11/23 07:43	10/15/23 23:39	7440-47-3	
Copper	**0.77 U**	mg/kg	3.0	0.77	20	10/11/23 07:43	10/15/23 23:39	7440-50-8	
Lead	**0.73 I**	mg/kg	1.5	0.55	20	10/11/23 07:43	10/15/23 23:39	7439-92-1	
Selenium	**0.78 U**	mg/kg	1.5	0.78	20	10/11/23 07:43	10/15/23 23:39	7782-49-2	
Silver	**0.058 U**	mg/kg	0.18	0.058	20	10/11/23 07:43	10/15/23 23:39	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.013**	mg/kg	0.0097	0.0049	1	10/18/23 11:06	10/18/23 13:48	7439-97-6	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.11 U**	mg/kg	0.26	0.11	1	10/10/23 18:17	10/20/23 16:30	83-32-9	P1
Acenaphthylene	**0.038 U**	mg/kg	0.24	0.038	1	10/10/23 18:17	10/20/23 16:30	208-96-8	P1
Aniline	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 16:30	62-53-3	P1
Anthracene	**0.033 U**	mg/kg	0.26	0.033	1	10/10/23 18:17	10/20/23 16:30	120-12-7	P1
Benzo(a)anthracene	**0.032 U**	mg/kg	0.24	0.032	1	10/10/23 18:17	10/20/23 16:30	56-55-3	P1
Benzo(a)pyrene	**0.060 U**	mg/kg	0.24	0.060	1	10/10/23 18:17	10/20/23 16:30	50-32-8	P1
Benzo(b)fluoranthene	**0.065 U**	mg/kg	0.24	0.065	1	10/10/23 18:17	10/20/23 16:30	205-99-2	P1
Benzo(g,h,i)perylene	**0.061 U**	mg/kg	0.24	0.061	1	10/10/23 18:17	10/20/23 16:30	191-24-2	P1
Benzo(k)fluoranthene	**0.065 U**	mg/kg	0.24	0.065	1	10/10/23 18:17	10/20/23 16:30	207-08-9	P1
Benzyl alcohol	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 16:30	100-51-6	J(L1), P1
4-Bromophenylphenyl ether	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 16:30	101-55-3	P1
Butylbenzylphthalate	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 16:30	85-68-7	J(L1), P1
4-Chloro-3-methylphenol	**0.72 U**	mg/kg	4.8	0.72	1	10/10/23 18:17	10/20/23 16:30	59-50-7	P1
4-Chloroaniline	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 16:30	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	111-91-1	J(L1), P1
bis(2-Chloroethyl) ether	**0.079 U**	mg/kg	1.2	0.079	1	10/10/23 18:17	10/20/23 16:30	111-44-4	J(L1), P1
bis(2-Chloroisopropyl) ether	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 16:30	108-60-1	P1
2-Chloronaphthalene	**0.057 U**	mg/kg	1.2	0.057	1	10/10/23 18:17	10/20/23 16:30	91-58-7	P1
2-Chlorophenol	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 16:30	95-57-8	P1
4-Chlorophenylphenyl ether	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	7005-72-3	P1
Chrysene	**0.032 U**	mg/kg	0.24	0.032	1	10/10/23 18:17	10/20/23 16:30	218-01-9	P1
Dibenz(a,h)anthracene	**0.056 U**	mg/kg	0.24	0.056	1	10/10/23 18:17	10/20/23 16:30	53-70-3	P1
Dibenzofuran	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	132-64-9	P1
1,2-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	95-50-1	J(L1), P1
1,3-Dichlorobenzene	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 16:30	541-73-1	P1
1,4-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	106-46-7	P1
3,3'-Dichlorobenzidine	**0.24 U**	mg/kg	4.8	0.24	1	10/10/23 18:17	10/20/23 16:30	91-94-1	P1
2,4-Dichlorophenol	**0.054 U**	mg/kg	1.2	0.054	1	10/10/23 18:17	10/20/23 16:30	120-83-2	P1
Diethylphthalate	**0.41 U**	mg/kg	1.2	0.41	1	10/10/23 18:17	10/20/23 16:30	84-66-2	P1
2,4-Dimethylphenol	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 16:30	105-67-9	P1
Dimethylphthalate	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 16:30	131-11-3	P1
Di-n-butylphthalate	**0.95 U**	mg/kg	1.2	0.95	1	10/10/23 18:17	10/20/23 16:30	84-74-2	J(L1), P1
4,6-Dinitro-2-methylphenol	**1.6 U**	mg/kg	4.8	1.6	1	10/10/23 18:17	10/20/23 16:30	534-52-1	P1
2,4-Dinitrophenol	**0.72 U**	mg/kg	4.8	0.72	1	10/10/23 18:17	10/20/23 16:30	51-28-5	P1
2,4-Dinitrotoluene	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 16:30	121-14-2	P1
2,6-Dinitrotoluene	**0.059 U**	mg/kg	1.2	0.059	1	10/10/23 18:17	10/20/23 16:30	606-20-2	P1
Di-n-octylphthalate	**0.29 U**	mg/kg	1.2	0.29	1	10/10/23 18:17	10/20/23 16:30	117-84-0	J(L1), P1
1,2-Diphenylhydrazine	**0.27 U**	mg/kg	1.2	0.27	1	10/10/23 18:17	10/20/23 16:30	122-66-7	J(L1), P1

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
bis(2-Ethylhexyl)phthalate	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 16:30	117-81-7	J(L1), P1
Fluoranthene	**0.079 U**	mg/kg	0.24	0.079	1	10/10/23 18:17	10/20/23 16:30	206-44-0	P1
Fluorene	**0.086 U**	mg/kg	0.27	0.086	1	10/10/23 18:17	10/20/23 16:30	86-73-7	P1
Hexachloro-1,3-butadiene	**0.086 U**	mg/kg	1.2	0.086	1	10/10/23 18:17	10/20/23 16:30	87-68-3	P1
Hexachlorobenzene	**0.048 U**	mg/kg	1.2	0.048	1	10/10/23 18:17	10/20/23 16:30	118-74-1	P1
Hexachlorocyclopentadiene	**0.88 U**	mg/kg	4.8	0.88	1	10/10/23 18:17	10/20/23 16:30	77-47-4	J(v2),P1
Hexachloroethane	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 16:30	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.055 U**	mg/kg	0.24	0.055	1	10/10/23 18:17	10/20/23 16:30	193-39-5	P1
Isophorone	**0.21 U**	mg/kg	1.2	0.21	1	10/10/23 18:17	10/20/23 16:30	78-59-1	J(L1), P1
1-Methylnaphthalene	**0.040 U**	mg/kg	0.29	0.040	1	10/10/23 18:17	10/20/23 16:30	90-12-0	P1
2-Methylnaphthalene	**0.038 U**	mg/kg	0.28	0.038	1	10/10/23 18:17	10/20/23 16:30	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.058 U**	mg/kg	1.2	0.058	1	10/10/23 18:17	10/20/23 16:30	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.055 U**	mg/kg	1.2	0.055	1	10/10/23 18:17	10/20/23 16:30		P1
Naphthalene	**0.086 U**	mg/kg	0.25	0.086	1	10/10/23 18:17	10/20/23 16:30	91-20-3	P1
2-Nitroaniline	**0.30 U**	mg/kg	1.2	0.30	1	10/10/23 18:17	10/20/23 16:30	88-74-4	P1
3-Nitroaniline	**0.27 U**	mg/kg	1.2	0.27	1	10/10/23 18:17	10/20/23 16:30	99-09-2	J(L1), P1
4-Nitroaniline	**0.061 U**	mg/kg	1.2	0.061	1	10/10/23 18:17	10/20/23 16:30	100-01-6	P1
Nitrobenzene	**0.081 U**	mg/kg	1.2	0.081	1	10/10/23 18:17	10/20/23 16:30	98-95-3	J(L1), P1
2-Nitrophenol	**0.39 U**	mg/kg	1.2	0.39	1	10/10/23 18:17	10/20/23 16:30	88-75-5	P1
4-Nitrophenol	**0.52 U**	mg/kg	1.6	0.52	1	10/10/23 18:17	10/20/23 16:30	100-02-7	P1
N-Nitrosodimethylamine	**0.079 U**	mg/kg	1.2	0.079	1	10/10/23 18:17	10/20/23 16:30	62-75-9	J(L1), P1
N-Nitroso-di-n-propylamine	**0.047 U**	mg/kg	1.2	0.047	1	10/10/23 18:17	10/20/23 16:30	621-64-7	J(L1), P1
N-Nitrosodiphenylamine	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 16:30	86-30-6	J(L1), P1
Pentachlorophenol	**0.62 U**	mg/kg	4.8	0.62	1	10/10/23 18:17	10/20/23 16:30	87-86-5	P1
Phenanthrene	**0.034 U**	mg/kg	0.24	0.034	1	10/10/23 18:17	10/20/23 16:30	85-01-8	P1
Phenol	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 16:30	108-95-2	P1
Pyrene	**0.071 U**	mg/kg	0.24	0.071	1	10/10/23 18:17	10/20/23 16:30	129-00-0	P1
1,2,4-Trichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 16:30	120-82-1	P1
2,4,5-Trichlorophenol	**0.048 U**	mg/kg	1.2	0.048	1	10/10/23 18:17	10/20/23 16:30	95-95-4	P1
2,4,6-Trichlorophenol	**0.066 U**	mg/kg	1.2	0.066	1	10/10/23 18:17	10/20/23 16:30	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	82	%	24-98		1	10/10/23 18:17	10/20/23 16:30	4165-60-0	
2-Fluorobiphenyl (S)	70	%	29-101		1	10/10/23 18:17	10/20/23 16:30	321-60-8	
p-Terphenyl-d14 (S)	59	%	29-112		1	10/10/23 18:17	10/20/23 16:30	1718-51-0	
Phenol-d6 (S)	78	%	10-104		1	10/10/23 18:17	10/20/23 16:30	13127-88-3	
2-Fluorophenol (S)	79	%	19-95		1	10/10/23 18:17	10/20/23 16:30	367-12-4	
2,4,6-Tribromophenol (S)	73	%	23-110		1	10/10/23 18:17	10/20/23 16:30	118-79-6	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.19**	mg/kg	0.059	0.026	1	10/09/23 19:31	10/10/23 06:15	67-64-1	
Acetonitrile	**0.017 U**	mg/kg	0.059	0.017	1	10/09/23 19:31	10/10/23 06:15	75-05-8	
Benzene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 06:15	71-43-2	
Bromochloromethane	**0.00087 U**	mg/kg	0.0059	0.00087	1	10/09/23 19:31	10/10/23 06:15	74-97-5	J(v1)
Bromodichloromethane	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 06:15	75-27-4	
Bromoform	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 06:15	75-25-2	
Bromomethane	**0.0021 U**	mg/kg	0.0059	0.0021	1	10/09/23 19:31	10/10/23 06:15	74-83-9	
2-Butanone (MEK)	**0.0059 U**	mg/kg	0.059	0.0059	1	10/09/23 19:31	10/10/23 06:15	78-93-3	
Carbon disulfide	**0.0029 U**	mg/kg	0.0059	0.0029	1	10/09/23 19:31	10/10/23 06:15	75-15-0	J(v1)
Carbon tetrachloride	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	56-23-5	
Chlorobenzene	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 06:15	108-90-7	
Chloroethane	**0.0025 U**	mg/kg	0.0059	0.0025	1	10/09/23 19:31	10/10/23 06:15	75-00-3	
Chloroform	**0.0021 U**	mg/kg	0.0059	0.0021	1	10/09/23 19:31	10/10/23 06:15	67-66-3	
Chloromethane	**0.0023 U**	mg/kg	0.0059	0.0023	1	10/09/23 19:31	10/10/23 06:15	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	96-12-8	
Dibromochloromethane	**0.0010 U**	mg/kg	0.0059	0.0010	1	10/09/23 19:31	10/10/23 06:15	124-48-1	
1,2-Dibromoethane (EDB)	**0.00087 U**	mg/kg	0.0059	0.00087	1	10/09/23 19:31	10/10/23 06:15	106-93-4	
Dibromomethane	**0.00083 U**	mg/kg	0.0059	0.00083	1	10/09/23 19:31	10/10/23 06:15	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00089 U**	mg/kg	0.0059	0.00089	1	10/09/23 19:31	10/10/23 06:15	95-50-1	
1,4-Dichlorobenzene	**0.00079 U**	mg/kg	0.0059	0.00079	1	10/09/23 19:31	10/10/23 06:15	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	110-57-6	
1,1-Dichloroethane	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 06:15	75-34-3	
1,2-Dichloroethane	**0.00090 U**	mg/kg	0.0059	0.00090	1	10/09/23 19:31	10/10/23 06:15	107-06-2	
1,2-Dichloroethene (Total)	**0.0036 U**	mg/kg	0.0059	0.0036	1	10/09/23 19:31	10/10/23 06:15	540-59-0	
1,1-Dichloroethene	**0.0029 U**	mg/kg	0.0059	0.0029	1	10/09/23 19:31	10/10/23 06:15	75-35-4	
cis-1,2-Dichloroethene	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 06:15	156-59-2	
trans-1,2-Dichloroethene	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 06:15	156-60-5	
1,2-Dichloropropane	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 06:15	78-87-5	
cis-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 06:15	10061-01-5	
trans-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 06:15	10061-02-6	
Ethylbenzene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	100-41-4	
2-Hexanone	**0.0059 U**	mg/kg	0.029	0.0059	1	10/09/23 19:31	10/10/23 06:15	591-78-6	
Iodomethane	**0.0013 U**	mg/kg	0.012	0.0013	1	10/09/23 19:31	10/10/23 06:15	74-88-4	
Isopropylbenzene (Cumene)	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 06:15	98-82-8	
Methylene Chloride	**0.0052 U**	mg/kg	0.0059	0.0052	1	10/09/23 19:31	10/10/23 06:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0059 U**	mg/kg	0.029	0.0059	1	10/09/23 19:31	10/10/23 06:15	108-10-1	
Methyl-tert-butyl ether	**0.0018 U**	mg/kg	0.0059	0.0018	1	10/09/23 19:31	10/10/23 06:15	1634-04-4	
Styrene	**0.0029 U**	mg/kg	0.0059	0.0029	1	10/09/23 19:31	10/10/23 06:15	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 06:15	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00072 U**	mg/kg	0.0059	0.00072	1	10/09/23 19:31	10/10/23 06:15	79-34-5	
Tetrachloroethene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	127-18-4	
Toluene	**0.0023 U**	mg/kg	0.0059	0.0023	1	10/09/23 19:31	10/10/23 06:15	108-88-3	
1,1,1-Trichloroethane	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 06:15	71-55-6	
1,1,2-Trichloroethane	**0.00069 U**	mg/kg	0.0059	0.00069	1	10/09/23 19:31	10/10/23 06:15	79-00-5	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-005 **Lab ID: 35832847005** Collected: 10/05/23 10:25 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Trichloroethene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 06:15	79-01-6	
Trichlorofluoromethane	**0.0029 U**	mg/kg	0.0059	0.0029	1	10/09/23 19:31	10/10/23 06:15	75-69-4	
1,2,3-Trichloropropane	**0.0018 U**	mg/kg	0.0059	0.0018	1	10/09/23 19:31	10/10/23 06:15	96-18-4	
Vinyl acetate	**0.0019 U**	mg/kg	0.0059	0.0019	1	10/09/23 19:31	10/10/23 06:15	108-05-4	
Vinyl chloride	**0.0025 U**	mg/kg	0.0059	0.0025	1	10/09/23 19:31	10/10/23 06:15	75-01-4	
Xylene (Total)	**0.0060 U**	mg/kg	0.018	0.0060	1	10/09/23 19:31	10/10/23 06:15	1330-20-7	
m&p-Xylene	**0.0060 U**	mg/kg	0.012	0.0060	1	10/09/23 19:31	10/10/23 06:15	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 06:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	68-125		1	10/09/23 19:31	10/10/23 06:15	460-00-4	
Toluene-d8 (S)	110	%	70-130		1	10/09/23 19:31	10/10/23 06:15	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1	10/09/23 19:31	10/10/23 06:15	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**20.9**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**761000**	mg/kg	10.0	10.0	1		10/08/23 16:58		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**10.3**	%	0.10	0.10	1		10/20/23 09:53		
Total Organic Carbon	**7710**	mg/kg	757	226	1		10/20/23 09:53	7440-44-0	
Total Organic Carbon	**6950**	mg/kg	758	226	1		10/20/23 10:00	7440-44-0	
Mean Total Organic Carbon	**7330**	mg/kg	757	226	1		10/20/23 09:53	7440-44-0	

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00020 U**	mg/kg	0.0020	0.00020	1	10/10/23 17:11	10/11/23 14:48	309-00-2	
alpha-BHC	**0.00011 U**	mg/kg	0.0020	0.00011	1	10/10/23 17:11	10/11/23 14:48	319-84-6	
beta-BHC	**0.00025 U**	mg/kg	0.0020	0.00025	1	10/10/23 17:11	10/11/23 14:48	319-85-7	
delta-BHC	**0.00010 U**	mg/kg	0.0020	0.00010	1	10/10/23 17:11	10/11/23 14:48	319-86-8	
gamma-BHC (Lindane)	**0.000059 U**	mg/kg	0.0020	0.000059	1	10/10/23 17:11	10/11/23 14:48	58-89-9	
Chlordane (Technical)	**0.0061 U**	mg/kg	0.020	0.0061	1	10/10/23 17:11	10/11/23 14:48	57-74-9	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
4,4'-DDD	**0.000091 U**	mg/kg	0.0020	0.000091	1	10/10/23 17:11	10/11/23 14:48	72-54-8	
4,4'-DDE	**0.000081 U**	mg/kg	0.0020	0.000081	1	10/10/23 17:11	10/11/23 14:48	72-55-9	
4,4'-DDT	**0.00012 U**	mg/kg	0.0020	0.00012	1	10/10/23 17:11	10/11/23 14:48	50-29-3	
Dieldrin	**0.000078 U**	mg/kg	0.0020	0.000078	1	10/10/23 17:11	10/11/23 14:48	60-57-1	
Endosulfan I	**0.00023 U**	mg/kg	0.0020	0.00023	1	10/10/23 17:11	10/11/23 14:48	959-98-8	
Endosulfan II	**0.000091 U**	mg/kg	0.0020	0.000091	1	10/10/23 17:11	10/11/23 14:48	33213-65-9	
Endosulfan sulfate	**0.000081 U**	mg/kg	0.0020	0.000081	1	10/10/23 17:11	10/11/23 14:48	1031-07-8	
Endrin	**0.00013 U**	mg/kg	0.0020	0.00013	1	10/10/23 17:11	10/11/23 14:48	72-20-8	
Endrin aldehyde	**0.00013 U**	mg/kg	0.0041	0.00013	1	10/10/23 17:11	10/11/23 14:48	7421-93-4	
Endrin ketone	**0.000095 U**	mg/kg	0.0020	0.000095	1	10/10/23 17:11	10/11/23 14:48	53494-70-5	
Heptachlor	**0.00022 U**	mg/kg	0.0020	0.00022	1	10/10/23 17:11	10/11/23 14:48	76-44-8	
Heptachlor epoxide	**0.000088 U**	mg/kg	0.0020	0.000088	1	10/10/23 17:11	10/11/23 14:48	1024-57-3	
Methoxychlor	**0.00030 U**	mg/kg	0.0020	0.00030	1	10/10/23 17:11	10/11/23 14:48	72-43-5	
Toxaphene	**0.0088 U**	mg/kg	0.020	0.0088	1	10/10/23 17:11	10/11/23 14:48	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	53-140		1	10/10/23 17:11	10/11/23 14:48	877-09-8	
Decachlorobiphenyl (S)	73	%	43-157		1	10/10/23 17:11	10/11/23 14:48	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**15.1 U**	mg/kg	17.6	15.1	1	10/07/23 15:59	10/09/23 19:36		P1
Surrogates									
o-Terphenyl (S)	99	%	66-136		1	10/07/23 15:59	10/09/23 19:36	84-15-1	
N-Pentatriacontane (S)	110	%	42-159		1	10/07/23 15:59	10/09/23 19:36	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.20 U**	mg/kg	1.2	0.20	20	10/11/23 07:43	10/15/23 23:42	7440-38-2	
Barium	**0.52 I**	mg/kg	1.2	0.23	20	10/11/23 07:43	10/15/23 23:42	7440-39-3	
Cadmium	**0.032 U**	mg/kg	0.15	0.032	20	10/11/23 07:43	10/15/23 23:42	7440-43-9	
Chromium	**0.71 U**	mg/kg	1.2	0.71	20	10/11/23 07:43	10/15/23 23:42	7440-47-3	
Copper	**2.1 I**	mg/kg	2.5	0.63	20	10/11/23 07:43	10/15/23 23:42	7440-50-8	
Lead	**0.59 I**	mg/kg	1.2	0.45	20	10/11/23 07:43	10/15/23 23:42	7439-92-1	
Selenium	**0.64 U**	mg/kg	1.2	0.64	20	10/11/23 07:43	10/15/23 23:42	7782-49-2	
Silver	**0.047 U**	mg/kg	0.15	0.047	20	10/11/23 07:43	10/15/23 23:42	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0058 U**	mg/kg	0.012	0.0058	1	10/18/23 11:06	10/18/23 13:51	7439-97-6	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.019 U**	mg/kg	0.043	0.019	1	10/10/23 18:17	10/20/23 16:56	83-32-9	J(M1), J(R1)
Acenaphthylene	**0.0063 U**	mg/kg	0.040	0.0063	1	10/10/23 18:17	10/20/23 16:56	208-96-8	J(M1), J(R1)
Aniline	**0.039 U**	mg/kg	0.20	0.039	1	10/10/23 18:17	10/20/23 16:56	62-53-3	J(M1)
Anthracene	**0.0055 U**	mg/kg	0.043	0.0055	1	10/10/23 18:17	10/20/23 16:56	120-12-7	J(M1), J(R1)
Benzo(a)anthracene	**0.0054 U**	mg/kg	0.040	0.0054	1	10/10/23 18:17	10/20/23 16:56	56-55-3	J(M1), J(R1)
Benzo(a)pyrene	**0.010 U**	mg/kg	0.040	0.010	1	10/10/23 18:17	10/20/23 16:56	50-32-8	J(M1), J(R1)
Benzo(b)fluoranthene	**0.011 U**	mg/kg	0.040	0.011	1	10/10/23 18:17	10/20/23 16:56	205-99-2	J(M1), J(R1)
Benzo(g,h,i)perylene	**0.010 U**	mg/kg	0.040	0.010	1	10/10/23 18:17	10/20/23 16:56	191-24-2	J(M1), J(R1)
Benzo(k)fluoranthene	**0.011 U**	mg/kg	0.040	0.011	1	10/10/23 18:17	10/20/23 16:56	207-08-9	J(M1), J(R1)
Benzyl alcohol	**0.042 U**	mg/kg	0.20	0.042	1	10/10/23 18:17	10/20/23 16:56	100-51-6	J(L1), J(M0)
4-Bromophenylphenyl ether	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 18:17	10/20/23 16:56	101-55-3	J(M1), J(R1)
Butylbenzylphthalate	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 18:17	10/20/23 16:56	85-68-7	J(L1), J(M0), J(R1)
4-Chloro-3-methylphenol	**0.12 U**	mg/kg	0.80	0.12	1	10/10/23 18:17	10/20/23 16:56	59-50-7	J(M1)
4-Chloroaniline	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 18:17	10/20/23 16:56	106-47-8	J(M1)
bis(2-Chloroethoxy)methane	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 16:56	111-91-1	J(L1), J(M0), J(R1)
bis(2-Chloroethyl) ether	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 18:17	10/20/23 16:56	111-44-4	J(L1), J(M0), J(R1)
bis(2-Chloroisopropyl) ether	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 18:17	10/20/23 16:56	108-60-1	J(M1), J(R1)
2-Chloronaphthalene	**0.0095 U**	mg/kg	0.20	0.0095	1	10/10/23 18:17	10/20/23 16:56	91-58-7	J(M1), J(R1)
2-Chlorophenol	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 18:17	10/20/23 16:56	95-57-8	J(M1)
4-Chlorophenylphenyl ether	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 16:56	7005-72-3	J(M1), J(R1)
Chrysene	**0.0054 U**	mg/kg	0.040	0.0054	1	10/10/23 18:17	10/20/23 16:56	218-01-9	J(M1), J(R1)
Dibenz(a,h)anthracene	**0.0093 U**	mg/kg	0.040	0.0093	1	10/10/23 18:17	10/20/23 16:56	53-70-3	J(M1), J(R1)
Dibenzofuran	**0.027 U**	mg/kg	0.20	0.027	1	10/10/23 18:17	10/20/23 16:56	132-64-9	J(M1), J(R1)
1,2-Dichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 16:56	95-50-1	J(L1), J(M0), J(R1)
1,3-Dichlorobenzene	**0.039 U**	mg/kg	0.20	0.039	1	10/10/23 18:17	10/20/23 16:56	541-73-1	J(M1), J(R1)

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
1,4-Dichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 16:56	106-46-7	J(M1), J(R1)
3,3'-Dichlorobenzidine	**0.039 U**	mg/kg	0.80	0.039	1	10/10/23 18:17	10/20/23 16:56	91-94-1	J(M1)
2,4-Dichlorophenol	**0.0089 U**	mg/kg	0.20	0.0089	1	10/10/23 18:17	10/20/23 16:56	120-83-2	J(M1)
Diethylphthalate	**0.068 U**	mg/kg	0.20	0.068	1	10/10/23 18:17	10/20/23 16:56	84-66-2	J(M1), J(R1)
2,4-Dimethylphenol	**0.036 U**	mg/kg	0.20	0.036	1	10/10/23 18:17	10/20/23 16:56	105-67-9	J(M1)
Dimethylphthalate	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 18:17	10/20/23 16:56	131-11-3	J(M1), J(R1)
Di-n-butylphthalate	**0.16 U**	mg/kg	0.20	0.16	1	10/10/23 18:17	10/20/23 16:56	84-74-2	J(L1), J(M0), J(R1)
4,6-Dinitro-2-methylphenol	**0.26 U**	mg/kg	0.80	0.26	1	10/10/23 18:17	10/20/23 16:56	534-52-1	J(M1)
2,4-Dinitrophenol	**0.12 U**	mg/kg	0.80	0.12	1	10/10/23 18:17	10/20/23 16:56	51-28-5	J(M1)
2,4-Dinitrotoluene	**0.027 U**	mg/kg	0.20	0.027	1	10/10/23 18:17	10/20/23 16:56	121-14-2	J(M1), J(R1)
2,6-Dinitrotoluene	**0.0098 U**	mg/kg	0.20	0.0098	1	10/10/23 18:17	10/20/23 16:56	606-20-2	J(M1), J(R1)
Di-n-octylphthalate	**0.049 U**	mg/kg	0.20	0.049	1	10/10/23 18:17	10/20/23 16:56	117-84-0	J(L1), J(M0), J(R1)
1,2-Diphenylhydrazine	**0.044 U**	mg/kg	0.20	0.044	1	10/10/23 18:17	10/20/23 16:56	122-66-7	J(L1), J(M0), J(R1)
bis(2-Ethylhexyl)phthalate	**0.042 U**	mg/kg	0.20	0.042	1	10/10/23 18:17	10/20/23 16:56	117-81-7	J(L1), J(M0), J(R1)
Fluoranthene	**0.013 U**	mg/kg	0.040	0.013	1	10/10/23 18:17	10/20/23 16:56	206-44-0	J(M1), J(R1)
Fluorene	**0.014 U**	mg/kg	0.044	0.014	1	10/10/23 18:17	10/20/23 16:56	86-73-7	J(M1), J(R1)
Hexachloro-1,3-butadiene	**0.014 U**	mg/kg	0.20	0.014	1	10/10/23 18:17	10/20/23 16:56	87-68-3	J(M1), J(R1)
Hexachlorobenzene	**0.0079 U**	mg/kg	0.20	0.0079	1	10/10/23 18:17	10/20/23 16:56	118-74-1	J(M1), J(R1)
Hexachlorocyclopentadiene	**0.15 U**	mg/kg	0.80	0.15	1	10/10/23 18:17	10/20/23 16:56	77-47-4	J(M1), J(v2)
Hexachloroethane	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 18:17	10/20/23 16:56	67-72-1	J(M1), J(R1)
Indeno(1,2,3-cd)pyrene	**0.0092 U**	mg/kg	0.040	0.0092	1	10/10/23 18:17	10/20/23 16:56	193-39-5	J(M1), J(R1)
Isophorone	**0.035 U**	mg/kg	0.20	0.035	1	10/10/23 18:17	10/20/23 16:56	78-59-1	J(L1), J(M0), J(R1)
1-Methylnaphthalene	**0.0067 U**	mg/kg	0.048	0.0067	1	10/10/23 18:17	10/20/23 16:56	90-12-0	J(M1), J(R1)
2-Methylnaphthalene	**0.0063 U**	mg/kg	0.046	0.0063	1	10/10/23 18:17	10/20/23 16:56	91-57-6	J(M1), J(R1)
2-Methylphenol(o-Cresol)	**0.0096 U**	mg/kg	0.20	0.0096	1	10/10/23 18:17	10/20/23 16:56	95-48-7	J(M1), J(R1)

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
3&4-Methylphenol(m&p Cresol)	**0.0092 U**	mg/kg	0.20	0.0092	1	10/10/23 18:17	10/20/23 16:56		J(M1), J(R1)
Naphthalene	**0.014 U**	mg/kg	0.042	0.014	1	10/10/23 18:17	10/20/23 16:56	91-20-3	J(M1), J(R1)
2-Nitroaniline	**0.050 U**	mg/kg	0.20	0.050	1	10/10/23 18:17	10/20/23 16:56	88-74-4	J(M1), J(R1)
3-Nitroaniline	**0.044 U**	mg/kg	0.20	0.044	1	10/10/23 18:17	10/20/23 16:56	99-09-2	J(L1), J(M0), J(R1)
4-Nitroaniline	**0.010 U**	mg/kg	0.20	0.010	1	10/10/23 18:17	10/20/23 16:56	100-01-6	J(M1), J(R1)
Nitrobenzene	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 18:17	10/20/23 16:56	98-95-3	J(L1), J(M0), J(R1)
2-Nitrophenol	**0.064 U**	mg/kg	0.20	0.064	1	10/10/23 18:17	10/20/23 16:56	88-75-5	J(M1)
4-Nitrophenol	**0.087 U**	mg/kg	0.26	0.087	1	10/10/23 18:17	10/20/23 16:56	100-02-7	J(M1)
N-Nitrosodimethylamine	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 18:17	10/20/23 16:56	62-75-9	J(L1), J(M0), J(R1)
N-Nitroso-di-n-propylamine	**0.0079 U**	mg/kg	0.20	0.0079	1	10/10/23 18:17	10/20/23 16:56	621-64-7	J(L1), J(M0), J(R1)
N-Nitrosodiphenylamine	**0.026 U**	mg/kg	0.20	0.026	1	10/10/23 18:17	10/20/23 16:56	86-30-6	J(L1), J(M0), J(R1)
Pentachlorophenol	**0.10 U**	mg/kg	0.80	0.10	1	10/10/23 18:17	10/20/23 16:56	87-86-5	J(M1)
Phenanthrene	**0.0057 U**	mg/kg	0.040	0.0057	1	10/10/23 18:17	10/20/23 16:56	85-01-8	J(M1), J(R1)
Phenol	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 18:17	10/20/23 16:56	108-95-2	J(M1)
Pyrene	**0.012 U**	mg/kg	0.040	0.012	1	10/10/23 18:17	10/20/23 16:56	129-00-0	J(M1), J(R1)
1,2,4-Trichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 16:56	120-82-1	J(M1), J(R1)
2,4,5-Trichlorophenol	**0.0080 U**	mg/kg	0.20	0.0080	1	10/10/23 18:17	10/20/23 16:56	95-95-4	J(M1), J(R1)
2,4,6-Trichlorophenol	**0.011 U**	mg/kg	0.20	0.011	1	10/10/23 18:17	10/20/23 16:56	88-06-2	J(M1)
Surrogates									
Nitrobenzene-d5 (S)	60	%	24-98		1	10/10/23 18:17	10/20/23 16:56	4165-60-0	
2-Fluorobiphenyl (S)	49	%	29-101		1	10/10/23 18:17	10/20/23 16:56	321-60-8	
p-Terphenyl-d14 (S)	27	%	29-112		1	10/10/23 18:17	10/20/23 16:56	1718-51-0	J(S0)
Phenol-d6 (S)	49	%	10-104		1	10/10/23 18:17	10/20/23 16:56	13127-88-3	
2-Fluorophenol (S)	51	%	19-95		1	10/10/23 18:17	10/20/23 16:56	367-12-4	
2,4,6-Tribromophenol (S)	51	%	23-110		1	10/10/23 18:17	10/20/23 16:56	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.14**	mg/kg	0.055	0.024	1	10/09/23 19:31	10/10/23 06:38	67-64-1	
Acetonitrile	**0.016 U**	mg/kg	0.055	0.016	1	10/09/23 19:31	10/10/23 06:38	75-05-8	
Benzene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	71-43-2	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Bromochloromethane	**0.00082 U**	mg/kg	0.0055	0.00082	1	10/09/23 19:31	10/10/23 06:38	74-97-5	J(v1)
Bromodichloromethane	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 06:38	75-27-4	
Bromoform	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 06:38	75-25-2	
Bromomethane	**0.0020 U**	mg/kg	0.0055	0.0020	1	10/09/23 19:31	10/10/23 06:38	74-83-9	
2-Butanone (MEK)	**0.0055 U**	mg/kg	0.055	0.0055	1	10/09/23 19:31	10/10/23 06:38	78-93-3	
Carbon disulfide	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 06:38	75-15-0	J(v1)
Carbon tetrachloride	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	56-23-5	
Chlorobenzene	**0.0010 U**	mg/kg	0.0055	0.0010	1	10/09/23 19:31	10/10/23 06:38	108-90-7	
Chloroethane	**0.0023 U**	mg/kg	0.0055	0.0023	1	10/09/23 19:31	10/10/23 06:38	75-00-3	
Chloroform	**0.0020 U**	mg/kg	0.0055	0.0020	1	10/09/23 19:31	10/10/23 06:38	67-66-3	
Chloromethane	**0.0022 U**	mg/kg	0.0055	0.0022	1	10/09/23 19:31	10/10/23 06:38	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	96-12-8	
Dibromochloromethane	**0.00096 U**	mg/kg	0.0055	0.00096	1	10/09/23 19:31	10/10/23 06:38	124-48-1	
1,2-Dibromoethane (EDB)	**0.00082 U**	mg/kg	0.0055	0.00082	1	10/09/23 19:31	10/10/23 06:38	106-93-4	
Dibromomethane	**0.00079 U**	mg/kg	0.0055	0.00079	1	10/09/23 19:31	10/10/23 06:38	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00084 U**	mg/kg	0.0055	0.00084	1	10/09/23 19:31	10/10/23 06:38	95-50-1	
1,4-Dichlorobenzene	**0.00074 U**	mg/kg	0.0055	0.00074	1	10/09/23 19:31	10/10/23 06:38	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	110-57-6	
1,1-Dichloroethane	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	75-34-3	
1,2-Dichloroethane	**0.00085 U**	mg/kg	0.0055	0.00085	1	10/09/23 19:31	10/10/23 06:38	107-06-2	
1,2-Dichloroethene (Total)	**0.0034 U**	mg/kg	0.0055	0.0034	1	10/09/23 19:31	10/10/23 06:38	540-59-0	
1,1-Dichloroethene	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 06:38	75-35-4	
cis-1,2-Dichloroethene	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 06:38	156-59-2	
trans-1,2-Dichloroethene	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 06:38	156-60-5	
1,2-Dichloropropane	**0.0010 U**	mg/kg	0.0055	0.0010	1	10/09/23 19:31	10/10/23 06:38	78-87-5	
cis-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	10061-01-5	
trans-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	10061-02-6	
Ethylbenzene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	100-41-4	
2-Hexanone	**0.0055 U**	mg/kg	0.028	0.0055	1	10/09/23 19:31	10/10/23 06:38	591-78-6	
Iodomethane	**0.0012 U**	mg/kg	0.011	0.0012	1	10/09/23 19:31	10/10/23 06:38	74-88-4	
Isopropylbenzene (Cumene)	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 06:38	98-82-8	
Methylene Chloride	**0.0049 U**	mg/kg	0.0055	0.0049	1	10/09/23 19:31	10/10/23 06:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0055 U**	mg/kg	0.028	0.0055	1	10/09/23 19:31	10/10/23 06:38	108-10-1	
Methyl-tert-butyl ether	**0.0017 U**	mg/kg	0.0055	0.0017	1	10/09/23 19:31	10/10/23 06:38	1634-04-4	
Styrene	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 06:38	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00067 U**	mg/kg	0.0055	0.00067	1	10/09/23 19:31	10/10/23 06:38	79-34-5	
Tetrachloroethene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	127-18-4	
Toluene	**0.0022 U**	mg/kg	0.0055	0.0022	1	10/09/23 19:31	10/10/23 06:38	108-88-3	
1,1,1-Trichloroethane	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 06:38	71-55-6	
1,1,2-Trichloroethane	**0.00065 U**	mg/kg	0.0055	0.00065	1	10/09/23 19:31	10/10/23 06:38	79-00-5	
Trichloroethene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 06:38	79-01-6	
Trichlorofluoromethane	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 06:38	75-69-4	
1,2,3-Trichloropropane	**0.0017 U**	mg/kg	0.0055	0.0017	1	10/09/23 19:31	10/10/23 06:38	96-18-4	

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(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-006 **Lab ID: 35832847006** Collected: 10/05/23 10:35 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Vinyl acetate	**0.0018 U**	mg/kg	0.0055	0.0018	1	10/09/23 19:31	10/10/23 06:38	108-05-4	
Vinyl chloride	**0.0023 U**	mg/kg	0.0055	0.0023	1	10/09/23 19:31	10/10/23 06:38	75-01-4	
Xylene (Total)	**0.0057 U**	mg/kg	0.017	0.0057	1	10/09/23 19:31	10/10/23 06:38	1330-20-7	
m&p-Xylene	**0.0057 U**	mg/kg	0.011	0.0057	1	10/09/23 19:31	10/10/23 06:38	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 06:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	68-125		1	10/09/23 19:31	10/10/23 06:38	460-00-4	
Toluene-d8 (S)	111	%	70-130		1	10/09/23 19:31	10/10/23 06:38	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1	10/09/23 19:31	10/10/23 06:38	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**16.5**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**775000**	mg/kg	10.0	10.0	1		10/08/23 16:58		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**24.9**	%	0.10	0.10	1		10/20/23 10:06		
Total Organic Carbon	**738**	mg/kg	713	213	1		10/20/23 10:06	7440-44-0	
Total Organic Carbon	**948**	mg/kg	718	214	1		10/20/23 10:11	7440-44-0	
Mean Total Organic Carbon	**843**	mg/kg	715	213	1		10/20/23 10:06	7440-44-0	

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0012 U**	mg/kg	0.012	0.0012	1	10/10/23 17:11	10/11/23 15:01	309-00-2	P1
alpha-BHC	**0.00067 U**	mg/kg	0.012	0.00067	1	10/10/23 17:11	10/11/23 15:01	319-84-6	P1
beta-BHC	**0.0015 U**	mg/kg	0.012	0.0015	1	10/10/23 17:11	10/11/23 15:01	319-85-7	P1
delta-BHC	**0.00063 U**	mg/kg	0.012	0.00063	1	10/10/23 17:11	10/11/23 15:01	319-86-8	P1
gamma-BHC (Lindane)	**0.00035 U**	mg/kg	0.012	0.00035	1	10/10/23 17:11	10/11/23 15:01	58-89-9	P1
Chlordane (Technical)	**0.037 U**	mg/kg	0.12	0.037	1	10/10/23 17:11	10/11/23 15:01	57-74-9	P1
4,4'-DDD	**0.00055 U**	mg/kg	0.012	0.00055	1	10/10/23 17:11	10/11/23 15:01	72-54-8	P1
4,4'-DDE	**0.00048 U**	mg/kg	0.012	0.00048	1	10/10/23 17:11	10/11/23 15:01	72-55-9	P1
4,4'-DDT	**0.00073 U**	mg/kg	0.012	0.00073	1	10/10/23 17:11	10/11/23 15:01	50-29-3	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Dieldrin	**0.00047 U**	mg/kg	0.012	0.00047	1	10/10/23 17:11	10/11/23 15:01	60-57-1	P1
Endosulfan I	**0.0014 U**	mg/kg	0.012	0.0014	1	10/10/23 17:11	10/11/23 15:01	959-98-8	P1
Endosulfan II	**0.00055 U**	mg/kg	0.012	0.00055	1	10/10/23 17:11	10/11/23 15:01	33213-65-9	P1
Endosulfan sulfate	**0.00048 U**	mg/kg	0.012	0.00048	1	10/10/23 17:11	10/11/23 15:01	1031-07-8	P1
Endrin	**0.00077 U**	mg/kg	0.012	0.00077	1	10/10/23 17:11	10/11/23 15:01	72-20-8	P1
Endrin aldehyde	**0.00079 U**	mg/kg	0.024	0.00079	1	10/10/23 17:11	10/11/23 15:01	7421-93-4	P1
Endrin ketone	**0.00057 U**	mg/kg	0.012	0.00057	1	10/10/23 17:11	10/11/23 15:01	53494-70-5	P1
Heptachlor	**0.0013 U**	mg/kg	0.012	0.0013	1	10/10/23 17:11	10/11/23 15:01	76-44-8	P1
Heptachlor epoxide	**0.00052 U**	mg/kg	0.012	0.00052	1	10/10/23 17:11	10/11/23 15:01	1024-57-3	P1
Methoxychlor	**0.0018 U**	mg/kg	0.012	0.0018	1	10/10/23 17:11	10/11/23 15:01	72-43-5	P1
Toxaphene	**0.053 U**	mg/kg	0.12	0.053	1	10/10/23 17:11	10/11/23 15:01	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	66	%	53-140		1	10/10/23 17:11	10/11/23 15:01	877-09-8	
Decachlorobiphenyl (S)	64	%	43-157		1	10/10/23 17:11	10/11/23 15:01	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**16.4 U**	mg/kg	19.0	16.4	1	10/07/23 15:59	10/09/23 19:50		P1
Surrogates									
o-Terphenyl (S)	100	%	66-136		1	10/07/23 15:59	10/09/23 19:50	84-15-1	
N-Pentatriacontane (S)	112	%	42-159		1	10/07/23 15:59	10/09/23 19:50	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.24 U**	mg/kg	1.5	0.24	20	10/13/23 11:43	10/15/23 22:57	7440-38-2	
Barium	**0.47 I**	mg/kg	1.5	0.27	20	10/13/23 11:43	10/15/23 22:57	7440-39-3	
Cadmium	**0.039 U**	mg/kg	0.18	0.039	20	10/13/23 11:43	10/15/23 22:57	7440-43-9	
Chromium	**0.85 U**	mg/kg	1.5	0.85	20	10/13/23 11:43	10/15/23 22:57	7440-47-3	
Copper	**0.82 I**	mg/kg	3.0	0.76	20	10/13/23 11:43	10/15/23 22:57	7440-50-8	
Lead	**0.54 U**	mg/kg	1.5	0.54	20	10/13/23 11:43	10/15/23 22:57	7439-92-1	
Selenium	**0.77 U**	mg/kg	1.5	0.77	20	10/13/23 11:43	10/15/23 22:57	7782-49-2	
Silver	**0.057 U**	mg/kg	0.18	0.057	20	10/13/23 11:43	10/15/23 22:57	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0061 U**	mg/kg	0.012	0.0061	1	10/18/23 11:06	10/18/23 13:58	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.11 U**	mg/kg	0.25	0.11	1	10/10/23 18:17	10/20/23 18:12	83-32-9	P1
Acenaphthylene	**0.037 U**	mg/kg	0.24	0.037	1	10/10/23 18:17	10/20/23 18:12	208-96-8	P1
Aniline	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 18:12	62-53-3	P1
Anthracene	**0.032 U**	mg/kg	0.25	0.032	1	10/10/23 18:17	10/20/23 18:12	120-12-7	P1
Benzo(a)anthracene	**0.031 U**	mg/kg	0.24	0.031	1	10/10/23 18:17	10/20/23 18:12	56-55-3	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Benzo(a)pyrene	**0.058 U**	mg/kg	0.24	0.058	1	10/10/23 18:17	10/20/23 18:12	50-32-8	P1
Benzo(b)fluoranthene	**0.062 U**	mg/kg	0.24	0.062	1	10/10/23 18:17	10/20/23 18:12	205-99-2	P1
Benzo(g,h,i)perylene	**0.059 U**	mg/kg	0.24	0.059	1	10/10/23 18:17	10/20/23 18:12	191-24-2	P1
Benzo(k)fluoranthene	**0.062 U**	mg/kg	0.24	0.062	1	10/10/23 18:17	10/20/23 18:12	207-08-9	P1
Benzyl alcohol	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 18:12	100-51-6	J(L1), P1
4-Bromophenylphenyl ether	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 18:12	101-55-3	P1
Butylbenzylphthalate	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 18:12	85-68-7	J(L1), P1
4-Chloro-3-methylphenol	**0.69 U**	mg/kg	4.6	0.69	1	10/10/23 18:17	10/20/23 18:12	59-50-7	P1
4-Chloroaniline	**0.18 U**	mg/kg	1.2	0.18	1	10/10/23 18:17	10/20/23 18:12	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 18:12	111-91-1	J(L1), P1
bis(2-Chloroethyl) ether	**0.076 U**	mg/kg	1.2	0.076	1	10/10/23 18:17	10/20/23 18:12	111-44-4	J(L1), P1
bis(2-Chloroisopropyl) ether	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 18:12	108-60-1	P1
2-Chloronaphthalene	**0.055 U**	mg/kg	1.2	0.055	1	10/10/23 18:17	10/20/23 18:12	91-58-7	P1
2-Chlorophenol	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 18:12	95-57-8	P1
4-Chlorophenylphenyl ether	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 18:12	7005-72-3	P1
Chrysene	**0.031 U**	mg/kg	0.24	0.031	1	10/10/23 18:17	10/20/23 18:12	218-01-9	P1
Dibenz(a,h)anthracene	**0.054 U**	mg/kg	0.24	0.054	1	10/10/23 18:17	10/20/23 18:12	53-70-3	P1
Dibenzofuran	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 18:12	132-64-9	P1
1,2-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 18:12	95-50-1	J(L1), P1
1,3-Dichlorobenzene	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 18:12	541-73-1	P1
1,4-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 18:12	106-46-7	P1
3,3'-Dichlorobenzidine	**0.23 U**	mg/kg	4.6	0.23	1	10/10/23 18:17	10/20/23 18:12	91-94-1	P1
2,4-Dichlorophenol	**0.052 U**	mg/kg	1.2	0.052	1	10/10/23 18:17	10/20/23 18:12	120-83-2	P1
Diethylphthalate	**0.39 U**	mg/kg	1.2	0.39	1	10/10/23 18:17	10/20/23 18:12	84-66-2	P1
2,4-Dimethylphenol	**0.21 U**	mg/kg	1.2	0.21	1	10/10/23 18:17	10/20/23 18:12	105-67-9	P1
Dimethylphthalate	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 18:12	131-11-3	P1
Di-n-butylphthalate	**0.92 U**	mg/kg	1.2	0.92	1	10/10/23 18:17	10/20/23 18:12	84-74-2	J(L1), P1
4,6-Dinitro-2-methylphenol	**1.5 U**	mg/kg	4.6	1.5	1	10/10/23 18:17	10/20/23 18:12	534-52-1	P1
2,4-Dinitrophenol	**0.69 U**	mg/kg	4.6	0.69	1	10/10/23 18:17	10/20/23 18:12	51-28-5	P1
2,4-Dinitrotoluene	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 18:12	121-14-2	P1
2,6-Dinitrotoluene	**0.057 U**	mg/kg	1.2	0.057	1	10/10/23 18:17	10/20/23 18:12	606-20-2	P1
Di-n-octylphthalate	**0.28 U**	mg/kg	1.2	0.28	1	10/10/23 18:17	10/20/23 18:12	117-84-0	J(L1), P1
1,2-Diphenylhydrazine	**0.26 U**	mg/kg	1.2	0.26	1	10/10/23 18:17	10/20/23 18:12	122-66-7	J(L1), P1
bis(2-Ethylhexyl)phthalate	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 18:12	117-81-7	J(L1), P1
Fluoranthene	**0.076 U**	mg/kg	0.24	0.076	1	10/10/23 18:17	10/20/23 18:12	206-44-0	P1
Fluorene	**0.083 U**	mg/kg	0.26	0.083	1	10/10/23 18:17	10/20/23 18:12	86-73-7	P1
Hexachloro-1,3-butadiene	**0.083 U**	mg/kg	1.2	0.083	1	10/10/23 18:17	10/20/23 18:12	87-68-3	P1
Hexachlorobenzene	**0.046 U**	mg/kg	1.2	0.046	1	10/10/23 18:17	10/20/23 18:12	118-74-1	P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Hexachlorocyclopentadiene	**0.85 U**	mg/kg	4.6	0.85	1	10/10/23 18:17	10/20/23 18:12	77-47-4	J(v2),P1
Hexachloroethane	**0.18 U**	mg/kg	1.2	0.18	1	10/10/23 18:17	10/20/23 18:12	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.053 U**	mg/kg	0.24	0.053	1	10/10/23 18:17	10/20/23 18:12	193-39-5	P1
Isophorone	**0.20 U**	mg/kg	1.2	0.20	1	10/10/23 18:17	10/20/23 18:12	78-59-1	J(L1), P1
1-Methylnaphthalene	**0.039 U**	mg/kg	0.28	0.039	1	10/10/23 18:17	10/20/23 18:12	90-12-0	P1
2-Methylnaphthalene	**0.037 U**	mg/kg	0.27	0.037	1	10/10/23 18:17	10/20/23 18:12	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.056 U**	mg/kg	1.2	0.056	1	10/10/23 18:17	10/20/23 18:12	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.053 U**	mg/kg	1.2	0.053	1	10/10/23 18:17	10/20/23 18:12		P1
Naphthalene	**0.083 U**	mg/kg	0.24	0.083	1	10/10/23 18:17	10/20/23 18:12	91-20-3	P1
2-Nitroaniline	**0.29 U**	mg/kg	1.2	0.29	1	10/10/23 18:17	10/20/23 18:12	88-74-4	P1
3-Nitroaniline	**0.26 U**	mg/kg	1.2	0.26	1	10/10/23 18:17	10/20/23 18:12	99-09-2	J(L1), P1
4-Nitroaniline	**0.059 U**	mg/kg	1.2	0.059	1	10/10/23 18:17	10/20/23 18:12	100-01-6	P1
Nitrobenzene	**0.078 U**	mg/kg	1.2	0.078	1	10/10/23 18:17	10/20/23 18:12	98-95-3	J(L1), P1
2-Nitrophenol	**0.37 U**	mg/kg	1.2	0.37	1	10/10/23 18:17	10/20/23 18:12	88-75-5	P1
4-Nitrophenol	**0.50 U**	mg/kg	1.5	0.50	1	10/10/23 18:17	10/20/23 18:12	100-02-7	P1
N-Nitrosodimethylamine	**0.076 U**	mg/kg	1.2	0.076	1	10/10/23 18:17	10/20/23 18:12	62-75-9	J(L1), P1
N-Nitroso-di-n-propylamine	**0.046 U**	mg/kg	1.2	0.046	1	10/10/23 18:17	10/20/23 18:12	621-64-7	J(L1), P1
N-Nitrosodiphenylamine	**0.15 U**	mg/kg	1.2	0.15	1	10/10/23 18:17	10/20/23 18:12	86-30-6	J(L1), P1
Pentachlorophenol	**0.60 U**	mg/kg	4.6	0.60	1	10/10/23 18:17	10/20/23 18:12	87-86-5	P1
Phenanthrene	**0.033 U**	mg/kg	0.24	0.033	1	10/10/23 18:17	10/20/23 18:12	85-01-8	P1
Phenol	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 18:12	108-95-2	P1
Pyrene	**0.068 U**	mg/kg	0.24	0.068	1	10/10/23 18:17	10/20/23 18:12	129-00-0	P1
1,2,4-Trichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 18:12	120-82-1	P1
2,4,5-Trichlorophenol	**0.046 U**	mg/kg	1.2	0.046	1	10/10/23 18:17	10/20/23 18:12	95-95-4	P1
2,4,6-Trichlorophenol	**0.064 U**	mg/kg	1.2	0.064	1	10/10/23 18:17	10/20/23 18:12	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	78	%	24-98		1	10/10/23 18:17	10/20/23 18:12	4165-60-0	
2-Fluorobiphenyl (S)	71	%	29-101		1	10/10/23 18:17	10/20/23 18:12	321-60-8	
p-Terphenyl-d14 (S)	56	%	29-112		1	10/10/23 18:17	10/20/23 18:12	1718-51-0	
Phenol-d6 (S)	74	%	10-104		1	10/10/23 18:17	10/20/23 18:12	13127-88-3	
2-Fluorophenol (S)	74	%	19-95		1	10/10/23 18:17	10/20/23 18:12	367-12-4	
2,4,6-Tribromophenol (S)	72	%	23-110		1	10/10/23 18:17	10/20/23 18:12	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.16**	mg/kg	0.055	0.024	1	10/09/23 19:31	10/10/23 07:02	67-64-1	
Acetonitrile	**0.016 U**	mg/kg	0.055	0.016	1	10/09/23 19:31	10/10/23 07:02	75-05-8	
Benzene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	71-43-2	
Bromochloromethane	**0.00082 U**	mg/kg	0.0055	0.00082	1	10/09/23 19:31	10/10/23 07:02	74-97-5	J(v1)
Bromodichloromethane	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 07:02	75-27-4	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Bromoform	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 07:02	75-25-2	
Bromomethane	**0.0020 U**	mg/kg	0.0055	0.0020	1	10/09/23 19:31	10/10/23 07:02	74-83-9	
2-Butanone (MEK)	**0.0055 U**	mg/kg	0.055	0.0055	1	10/09/23 19:31	10/10/23 07:02	78-93-3	
Carbon disulfide	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 07:02	75-15-0	J(v1)
Carbon tetrachloride	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	56-23-5	
Chlorobenzene	**0.0010 U**	mg/kg	0.0055	0.0010	1	10/09/23 19:31	10/10/23 07:02	108-90-7	
Chloroethane	**0.0023 U**	mg/kg	0.0055	0.0023	1	10/09/23 19:31	10/10/23 07:02	75-00-3	
Chloroform	**0.0020 U**	mg/kg	0.0055	0.0020	1	10/09/23 19:31	10/10/23 07:02	67-66-3	
Chloromethane	**0.0022 U**	mg/kg	0.0055	0.0022	1	10/09/23 19:31	10/10/23 07:02	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	96-12-8	
Dibromochloromethane	**0.00096 U**	mg/kg	0.0055	0.00096	1	10/09/23 19:31	10/10/23 07:02	124-48-1	
1,2-Dibromoethane (EDB)	**0.00082 U**	mg/kg	0.0055	0.00082	1	10/09/23 19:31	10/10/23 07:02	106-93-4	
Dibromomethane	**0.00079 U**	mg/kg	0.0055	0.00079	1	10/09/23 19:31	10/10/23 07:02	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00084 U**	mg/kg	0.0055	0.00084	1	10/09/23 19:31	10/10/23 07:02	95-50-1	
1,4-Dichlorobenzene	**0.00074 U**	mg/kg	0.0055	0.00074	1	10/09/23 19:31	10/10/23 07:02	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	110-57-6	
1,1-Dichloroethane	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	75-34-3	
1,2-Dichloroethane	**0.00085 U**	mg/kg	0.0055	0.00085	1	10/09/23 19:31	10/10/23 07:02	107-06-2	
1,2-Dichloroethene (Total)	**0.0034 U**	mg/kg	0.0055	0.0034	1	10/09/23 19:31	10/10/23 07:02	540-59-0	
1,1-Dichloroethene	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 07:02	75-35-4	
cis-1,2-Dichloroethene	**0.0012 U**	mg/kg	0.0055	0.0012	1	10/09/23 19:31	10/10/23 07:02	156-59-2	
trans-1,2-Dichloroethene	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 07:02	156-60-5	
1,2-Dichloropropane	**0.0010 U**	mg/kg	0.0055	0.0010	1	10/09/23 19:31	10/10/23 07:02	78-87-5	
cis-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	10061-01-5	
trans-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	10061-02-6	
Ethylbenzene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	100-41-4	
2-Hexanone	**0.0055 U**	mg/kg	0.028	0.0055	1	10/09/23 19:31	10/10/23 07:02	591-78-6	
Iodomethane	**0.0012 U**	mg/kg	0.011	0.0012	1	10/09/23 19:31	10/10/23 07:02	74-88-4	
Isopropylbenzene (Cumene)	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 07:02	98-82-8	
Methylene Chloride	**0.0049 U**	mg/kg	0.0055	0.0049	1	10/09/23 19:31	10/10/23 07:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0055 U**	mg/kg	0.028	0.0055	1	10/09/23 19:31	10/10/23 07:02	108-10-1	
Methyl-tert-butyl ether	**0.0017 U**	mg/kg	0.0055	0.0017	1	10/09/23 19:31	10/10/23 07:02	1634-04-4	
Styrene	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 07:02	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00068 U**	mg/kg	0.0055	0.00068	1	10/09/23 19:31	10/10/23 07:02	79-34-5	
Tetrachloroethene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	127-18-4	
Toluene	**0.0022 U**	mg/kg	0.0055	0.0022	1	10/09/23 19:31	10/10/23 07:02	108-88-3	
1,1,1-Trichloroethane	**0.0014 U**	mg/kg	0.0055	0.0014	1	10/09/23 19:31	10/10/23 07:02	71-55-6	
1,1,2-Trichloroethane	**0.00065 U**	mg/kg	0.0055	0.00065	1	10/09/23 19:31	10/10/23 07:02	79-00-5	
Trichloroethene	**0.0013 U**	mg/kg	0.0055	0.0013	1	10/09/23 19:31	10/10/23 07:02	79-01-6	
Trichlorofluoromethane	**0.0028 U**	mg/kg	0.0055	0.0028	1	10/09/23 19:31	10/10/23 07:02	75-69-4	
1,2,3-Trichloropropane	**0.0017 U**	mg/kg	0.0055	0.0017	1	10/09/23 19:31	10/10/23 07:02	96-18-4	
Vinyl acetate	**0.0018 U**	mg/kg	0.0055	0.0018	1	10/09/23 19:31	10/10/23 07:02	108-05-4	
Vinyl chloride	**0.0023 U**	mg/kg	0.0055	0.0023	1	10/09/23 19:31	10/10/23 07:02	75-01-4	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-007 **Lab ID: 35832847007** Collected: 10/05/23 10:45 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Xylene (Total)	**0.0057 U**	mg/kg	0.017	0.0057	1	10/09/23 19:31	10/10/23 07:02	1330-20-7	
m&p-Xylene	**0.0057 U**	mg/kg	0.011	0.0057	1	10/09/23 19:31	10/10/23 07:02	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0055	0.0011	1	10/09/23 19:31	10/10/23 07:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	68-125		1	10/09/23 19:31	10/10/23 07:02	460-00-4	
Toluene-d8 (S)	111	%	70-130		1	10/09/23 19:31	10/10/23 07:02	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1	10/09/23 19:31	10/10/23 07:02	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**20.4**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**731000**	mg/kg	10.0	10.0	1		10/08/23 16:59		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**1.3**	%	0.10	0.10	1		10/20/23 10:28		
Total Organic Carbon	**1050**	mg/kg	750	224	1		10/20/23 10:28	7440-44-0	
Total Organic Carbon	**1040**	mg/kg	749	224	1		10/20/23 10:35	7440-44-0	
Mean Total Organic Carbon	**1040**	mg/kg	750	224	1		10/20/23 10:28	7440-44-0	

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00020 U**	mg/kg	0.0020	0.00020	1	10/10/23 17:11	10/11/23 15:15	309-00-2	
alpha-BHC	**0.00011 U**	mg/kg	0.0020	0.00011	1	10/10/23 17:11	10/11/23 15:15	319-84-6	
beta-BHC	**0.00024 U**	mg/kg	0.0020	0.00024	1	10/10/23 17:11	10/11/23 15:15	319-85-7	
delta-BHC	**0.00010 U**	mg/kg	0.0020	0.00010	1	10/10/23 17:11	10/11/23 15:15	319-86-8	
gamma-BHC (Lindane)	**0.000059 U**	mg/kg	0.0020	0.000059	1	10/10/23 17:11	10/11/23 15:15	58-89-9	
Chlordane (Technical)	**0.0061 U**	mg/kg	0.020	0.0061	1	10/10/23 17:11	10/11/23 15:15	57-74-9	
4,4'-DDD	**0.000091 U**	mg/kg	0.0020	0.000091	1	10/10/23 17:11	10/11/23 15:15	72-54-8	
4,4'-DDE	**0.000080 U**	mg/kg	0.0020	0.000080	1	10/10/23 17:11	10/11/23 15:15	72-55-9	
4,4'-DDT	**0.00012 U**	mg/kg	0.0020	0.00012	1	10/10/23 17:11	10/11/23 15:15	50-29-3	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Dieldrin	**0.000078 U**	mg/kg	0.0020	0.000078	1	10/10/23 17:11	10/11/23 15:15	60-57-1	
Endosulfan I	**0.00023 U**	mg/kg	0.0020	0.00023	1	10/10/23 17:11	10/11/23 15:15	959-98-8	
Endosulfan II	**0.000091 U**	mg/kg	0.0020	0.000091	1	10/10/23 17:11	10/11/23 15:15	33213-65-9	
Endosulfan sulfate	**0.000080 U**	mg/kg	0.0020	0.000080	1	10/10/23 17:11	10/11/23 15:15	1031-07-8	
Endrin	**0.00013 U**	mg/kg	0.0020	0.00013	1	10/10/23 17:11	10/11/23 15:15	72-20-8	
Endrin aldehyde	**0.00013 U**	mg/kg	0.0041	0.00013	1	10/10/23 17:11	10/11/23 15:15	7421-93-4	
Endrin ketone	**0.000095 U**	mg/kg	0.0020	0.000095	1	10/10/23 17:11	10/11/23 15:15	53494-70-5	
Heptachlor	**0.00022 U**	mg/kg	0.0020	0.00022	1	10/10/23 17:11	10/11/23 15:15	76-44-8	
Heptachlor epoxide	**0.000088 U**	mg/kg	0.0020	0.000088	1	10/10/23 17:11	10/11/23 15:15	1024-57-3	
Methoxychlor	**0.00030 U**	mg/kg	0.0020	0.00030	1	10/10/23 17:11	10/11/23 15:15	72-43-5	
Toxaphene	**0.0088 U**	mg/kg	0.020	0.0088	1	10/10/23 17:11	10/11/23 15:15	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	53-140		1	10/10/23 17:11	10/11/23 15:15	877-09-8	
Decachlorobiphenyl (S)	61	%	43-157		1	10/10/23 17:11	10/11/23 15:15	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**14.9 U**	mg/kg	17.3	14.9	1	10/07/23 15:59	10/09/23 20:17		P1
Surrogates									
o-Terphenyl (S)	79	%	66-136		1	10/07/23 15:59	10/09/23 20:17	84-15-1	
N-Pentatriacontane (S)	86	%	42-159		1	10/07/23 15:59	10/09/23 20:17	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.21 U**	mg/kg	1.3	0.21	20	10/13/23 11:43	10/15/23 23:00	7440-38-2	
Barium	**0.27 I**	mg/kg	1.3	0.24	20	10/13/23 11:43	10/15/23 23:00	7440-39-3	
Cadmium	**0.035 U**	mg/kg	0.16	0.035	20	10/13/23 11:43	10/15/23 23:00	7440-43-9	
Chromium	**0.76 U**	mg/kg	1.3	0.76	20	10/13/23 11:43	10/15/23 23:00	7440-47-3	
Copper	**0.68 U**	mg/kg	2.7	0.68	20	10/13/23 11:43	10/15/23 23:00	7440-50-8	
Lead	**0.48 U**	mg/kg	1.3	0.48	20	10/13/23 11:43	10/15/23 23:00	7439-92-1	
Selenium	**0.68 U**	mg/kg	1.3	0.68	20	10/13/23 11:43	10/15/23 23:00	7782-49-2	
Silver	**0.050 U**	mg/kg	0.16	0.050	20	10/13/23 11:43	10/15/23 23:00	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0050 U**	mg/kg	0.010	0.0050	1	10/18/23 11:06	10/18/23 14:00	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.019 U**	mg/kg	0.043	0.019	1	10/10/23 18:17	10/20/23 18:38	83-32-9	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthylene	**0.0064 U**	mg/kg	0.041	0.0064	1	10/10/23 18:17	10/20/23 18:38	208-96-8	
Aniline	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 18:17	10/20/23 18:38	62-53-3	
Anthracene	**0.0055 U**	mg/kg	0.043	0.0055	1	10/10/23 18:17	10/20/23 18:38	120-12-7	
Benzo(a)anthracene	**0.0054 U**	mg/kg	0.041	0.0054	1	10/10/23 18:17	10/20/23 18:38	56-55-3	
Benzo(a)pyrene	**0.010 U**	mg/kg	0.041	0.010	1	10/10/23 18:17	10/20/23 18:38	50-32-8	
Benzo(b)fluoranthene	**0.011 U**	mg/kg	0.041	0.011	1	10/10/23 18:17	10/20/23 18:38	205-99-2	
Benzo(g,h,i)perylene	**0.010 U**	mg/kg	0.041	0.010	1	10/10/23 18:17	10/20/23 18:38	191-24-2	
Benzo(k)fluoranthene	**0.011 U**	mg/kg	0.041	0.011	1	10/10/23 18:17	10/20/23 18:38	207-08-9	
Benzyl alcohol	**0.042 U**	mg/kg	0.20	0.042	1	10/10/23 18:17	10/20/23 18:38	100-51-6	J(L1)
4-Bromophenylphenyl ether	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 18:17	10/20/23 18:38	101-55-3	
Butylbenzylphthalate	**0.041 U**	mg/kg	0.20	0.041	1	10/10/23 18:17	10/20/23 18:38	85-68-7	J(L1)
4-Chloro-3-methylphenol	**0.12 U**	mg/kg	0.80	0.12	1	10/10/23 18:17	10/20/23 18:38	59-50-7	
4-Chloroaniline	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 18:17	10/20/23 18:38	106-47-8	
bis(2-Chloroethoxy)methane	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 18:38	111-91-1	J(L1)
bis(2-Chloroethyl) ether	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 18:17	10/20/23 18:38	111-44-4	J(L1)
bis(2-Chloroisopropyl) ether	**0.041 U**	mg/kg	0.20	0.041	1	10/10/23 18:17	10/20/23 18:38	108-60-1	
2-Chloronaphthalene	**0.0096 U**	mg/kg	0.20	0.0096	1	10/10/23 18:17	10/20/23 18:38	91-58-7	
2-Chlorophenol	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 18:17	10/20/23 18:38	95-57-8	
4-Chlorophenylphenyl ether	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 18:38	7005-72-3	
Chrysene	**0.0054 U**	mg/kg	0.041	0.0054	1	10/10/23 18:17	10/20/23 18:38	218-01-9	
Dibenz(a,h)anthracene	**0.0094 U**	mg/kg	0.041	0.0094	1	10/10/23 18:17	10/20/23 18:38	53-70-3	
Dibenzofuran	**0.028 U**	mg/kg	0.20	0.028	1	10/10/23 18:17	10/20/23 18:38	132-64-9	
1,2-Dichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 18:38	95-50-1	J(L1)
1,3-Dichlorobenzene	**0.040 U**	mg/kg	0.20	0.040	1	10/10/23 18:17	10/20/23 18:38	541-73-1	
1,4-Dichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 18:38	106-46-7	
3,3'-Dichlorobenzidine	**0.040 U**	mg/kg	0.80	0.040	1	10/10/23 18:17	10/20/23 18:38	91-94-1	
2,4-Dichlorophenol	**0.0090 U**	mg/kg	0.20	0.0090	1	10/10/23 18:17	10/20/23 18:38	120-83-2	
Diethylphthalate	**0.068 U**	mg/kg	0.20	0.068	1	10/10/23 18:17	10/20/23 18:38	84-66-2	
2,4-Dimethylphenol	**0.036 U**	mg/kg	0.20	0.036	1	10/10/23 18:17	10/20/23 18:38	105-67-9	
Dimethylphthalate	**0.032 U**	mg/kg	0.20	0.032	1	10/10/23 18:17	10/20/23 18:38	131-11-3	
Di-n-butylphthalate	**0.16 U**	mg/kg	0.20	0.16	1	10/10/23 18:17	10/20/23 18:38	84-74-2	J(L1)
4,6-Dinitro-2-methylphenol	**0.27 U**	mg/kg	0.80	0.27	1	10/10/23 18:17	10/20/23 18:38	534-52-1	
2,4-Dinitrophenol	**0.12 U**	mg/kg	0.80	0.12	1	10/10/23 18:17	10/20/23 18:38	51-28-5	
2,4-Dinitrotoluene	**0.027 U**	mg/kg	0.20	0.027	1	10/10/23 18:17	10/20/23 18:38	121-14-2	
2,6-Dinitrotoluene	**0.0098 U**	mg/kg	0.20	0.0098	1	10/10/23 18:17	10/20/23 18:38	606-20-2	
Di-n-octylphthalate	**0.049 U**	mg/kg	0.20	0.049	1	10/10/23 18:17	10/20/23 18:38	117-84-0	J(L1)
1,2-Diphenylhydrazine	**0.044 U**	mg/kg	0.20	0.044	1	10/10/23 18:17	10/20/23 18:38	122-66-7	J(L1)
bis(2-Ethylhexyl)phthalate	**0.042 U**	mg/kg	0.20	0.042	1	10/10/23 18:17	10/20/23 18:38	117-81-7	J(L1)
Fluoranthene	**0.013 U**	mg/kg	0.041	0.013	1	10/10/23 18:17	10/20/23 18:38	206-44-0	
Fluorene	**0.014 U**	mg/kg	0.044	0.014	1	10/10/23 18:17	10/20/23 18:38	86-73-7	
Hexachloro-1,3-butadiene	**0.014 U**	mg/kg	0.20	0.014	1	10/10/23 18:17	10/20/23 18:38	87-68-3	
Hexachlorobenzene	**0.0080 U**	mg/kg	0.20	0.0080	1	10/10/23 18:17	10/20/23 18:38	118-74-1	
Hexachlorocyclopentadiene	**0.15 U**	mg/kg	0.80	0.15	1	10/10/23 18:17	10/20/23 18:38	77-47-4	J(v2)
Hexachloroethane	**0.031 U**	mg/kg	0.20	0.031	1	10/10/23 18:17	10/20/23 18:38	67-72-1	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Indeno(1,2,3-cd)pyrene	**0.0092 U**	mg/kg	0.041	0.0092	1	10/10/23 18:17	10/20/23 18:38	193-39-5	
Isophorone	**0.035 U**	mg/kg	0.20	0.035	1	10/10/23 18:17	10/20/23 18:38	78-59-1	J(L1)
1-Methylnaphthalene	**0.0067 U**	mg/kg	0.048	0.0067	1	10/10/23 18:17	10/20/23 18:38	90-12-0	
2-Methylnaphthalene	**0.0064 U**	mg/kg	0.047	0.0064	1	10/10/23 18:17	10/20/23 18:38	91-57-6	
2-Methylphenol(o-Cresol)	**0.0097 U**	mg/kg	0.20	0.0097	1	10/10/23 18:17	10/20/23 18:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.0092 U**	mg/kg	0.20	0.0092	1	10/10/23 18:17	10/20/23 18:38		
Naphthalene	**0.014 U**	mg/kg	0.042	0.014	1	10/10/23 18:17	10/20/23 18:38	91-20-3	
2-Nitroaniline	**0.050 U**	mg/kg	0.20	0.050	1	10/10/23 18:17	10/20/23 18:38	88-74-4	
3-Nitroaniline	**0.044 U**	mg/kg	0.20	0.044	1	10/10/23 18:17	10/20/23 18:38	99-09-2	J(L1)
4-Nitroaniline	**0.010 U**	mg/kg	0.20	0.010	1	10/10/23 18:17	10/20/23 18:38	100-01-6	
Nitrobenzene	**0.014 U**	mg/kg	0.20	0.014	1	10/10/23 18:17	10/20/23 18:38	98-95-3	J(L1)
2-Nitrophenol	**0.065 U**	mg/kg	0.20	0.065	1	10/10/23 18:17	10/20/23 18:38	88-75-5	
4-Nitrophenol	**0.088 U**	mg/kg	0.26	0.088	1	10/10/23 18:17	10/20/23 18:38	100-02-7	
N-Nitrosodimethylamine	**0.013 U**	mg/kg	0.20	0.013	1	10/10/23 18:17	10/20/23 18:38	62-75-9	J(L1)
N-Nitroso-di-n-propylamine	**0.0079 U**	mg/kg	0.20	0.0079	1	10/10/23 18:17	10/20/23 18:38	621-64-7	J(L1)
N-Nitrosodiphenylamine	**0.026 U**	mg/kg	0.20	0.026	1	10/10/23 18:17	10/20/23 18:38	86-30-6	J(L1)
Pentachlorophenol	**0.10 U**	mg/kg	0.80	0.10	1	10/10/23 18:17	10/20/23 18:38	87-86-5	
Phenanthrene	**0.0058 U**	mg/kg	0.041	0.0058	1	10/10/23 18:17	10/20/23 18:38	85-01-8	
Phenol	**0.038 U**	mg/kg	0.20	0.038	1	10/10/23 18:17	10/20/23 18:38	108-95-2	
Pyrene	**0.012 U**	mg/kg	0.041	0.012	1	10/10/23 18:17	10/20/23 18:38	129-00-0	
1,2,4-Trichlorobenzene	**0.029 U**	mg/kg	0.20	0.029	1	10/10/23 18:17	10/20/23 18:38	120-82-1	
2,4,5-Trichlorophenol	**0.0080 U**	mg/kg	0.20	0.0080	1	10/10/23 18:17	10/20/23 18:38	95-95-4	
2,4,6-Trichlorophenol	**0.011 U**	mg/kg	0.20	0.011	1	10/10/23 18:17	10/20/23 18:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	66	%	24-98		1	10/10/23 18:17	10/20/23 18:38	4165-60-0	
2-Fluorobiphenyl (S)	49	%	29-101		1	10/10/23 18:17	10/20/23 18:38	321-60-8	
p-Terphenyl-d14 (S)	33	%	29-112		1	10/10/23 18:17	10/20/23 18:38	1718-51-0	
Phenol-d6 (S)	58	%	10-104		1	10/10/23 18:17	10/20/23 18:38	13127-88-3	
2-Fluorophenol (S)	61	%	19-95		1	10/10/23 18:17	10/20/23 18:38	367-12-4	
2,4,6-Tribromophenol (S)	53	%	23-110		1	10/10/23 18:17	10/20/23 18:38	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.17**	mg/kg	0.050	0.022	1	10/09/23 19:31	10/10/23 07:25	67-64-1	
Acetonitrile	**0.015 U**	mg/kg	0.050	0.015	1	10/09/23 19:31	10/10/23 07:25	75-05-8	
Benzene	**0.0010 U**	mg/kg	0.0050	0.0010	1	10/09/23 19:31	10/10/23 07:25	71-43-2	
Bromochloromethane	**0.00074 U**	mg/kg	0.0050	0.00074	1	10/09/23 19:31	10/10/23 07:25	74-97-5	J(v1)
Bromodichloromethane	**0.0011 U**	mg/kg	0.0050	0.0011	1	10/09/23 19:31	10/10/23 07:25	75-27-4	
Bromoform	**0.0011 U**	mg/kg	0.0050	0.0011	1	10/09/23 19:31	10/10/23 07:25	75-25-2	
Bromomethane	**0.0018 U**	mg/kg	0.0050	0.0018	1	10/09/23 19:31	10/10/23 07:25	74-83-9	
2-Butanone (MEK)	**0.0050 U**	mg/kg	0.050	0.0050	1	10/09/23 19:31	10/10/23 07:25	78-93-3	
Carbon disulfide	**0.0025 U**	mg/kg	0.0050	0.0025	1	10/09/23 19:31	10/10/23 07:25	75-15-0	J(v1)
Carbon tetrachloride	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	56-23-5	
Chlorobenzene	**0.00093 U**	mg/kg	0.0050	0.00093	1	10/09/23 19:31	10/10/23 07:25	108-90-7	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Chloroethane	**0.0021 U**	mg/kg	0.0050	0.0021	1	10/09/23 19:31	10/10/23 07:25	75-00-3	
Chloroform	**0.0018 U**	mg/kg	0.0050	0.0018	1	10/09/23 19:31	10/10/23 07:25	67-66-3	
Chloromethane	**0.0019 U**	mg/kg	0.0050	0.0019	1	10/09/23 19:31	10/10/23 07:25	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	96-12-8	
Dibromochloromethane	**0.00087 U**	mg/kg	0.0050	0.00087	1	10/09/23 19:31	10/10/23 07:25	124-48-1	
1,2-Dibromoethane (EDB)	**0.00074 U**	mg/kg	0.0050	0.00074	1	10/09/23 19:31	10/10/23 07:25	106-93-4	
Dibromomethane	**0.00071 U**	mg/kg	0.0050	0.00071	1	10/09/23 19:31	10/10/23 07:25	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00076 U**	mg/kg	0.0050	0.00076	1	10/09/23 19:31	10/10/23 07:25	95-50-1	
1,4-Dichlorobenzene	**0.00067 U**	mg/kg	0.0050	0.00067	1	10/09/23 19:31	10/10/23 07:25	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	110-57-6	
1,1-Dichloroethane	**0.00098 U**	mg/kg	0.0050	0.00098	1	10/09/23 19:31	10/10/23 07:25	75-34-3	
1,2-Dichloroethane	**0.00077 U**	mg/kg	0.0050	0.00077	1	10/09/23 19:31	10/10/23 07:25	107-06-2	
1,2-Dichloroethene (Total)	**0.0030 U**	mg/kg	0.0050	0.0030	1	10/09/23 19:31	10/10/23 07:25	540-59-0	
1,1-Dichloroethene	**0.0025 U**	mg/kg	0.0050	0.0025	1	10/09/23 19:31	10/10/23 07:25	75-35-4	
cis-1,2-Dichloroethene	**0.0011 U**	mg/kg	0.0050	0.0011	1	10/09/23 19:31	10/10/23 07:25	156-59-2	
trans-1,2-Dichloroethene	**0.0013 U**	mg/kg	0.0050	0.0013	1	10/09/23 19:31	10/10/23 07:25	156-60-5	
1,2-Dichloropropane	**0.00092 U**	mg/kg	0.0050	0.00092	1	10/09/23 19:31	10/10/23 07:25	78-87-5	
cis-1,3-Dichloropropene	**0.0010 U**	mg/kg	0.0050	0.0010	1	10/09/23 19:31	10/10/23 07:25	10061-01-5	
trans-1,3-Dichloropropene	**0.00099 U**	mg/kg	0.0050	0.00099	1	10/09/23 19:31	10/10/23 07:25	10061-02-6	
Ethylbenzene	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	100-41-4	
2-Hexanone	**0.0050 U**	mg/kg	0.025	0.0050	1	10/09/23 19:31	10/10/23 07:25	591-78-6	
Iodomethane	**0.0011 U**	mg/kg	0.010	0.0011	1	10/09/23 19:31	10/10/23 07:25	74-88-4	
Isopropylbenzene (Cumene)	**0.0013 U**	mg/kg	0.0050	0.0013	1	10/09/23 19:31	10/10/23 07:25	98-82-8	
Methylene Chloride	**0.0044 U**	mg/kg	0.0050	0.0044	1	10/09/23 19:31	10/10/23 07:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0050 U**	mg/kg	0.025	0.0050	1	10/09/23 19:31	10/10/23 07:25	108-10-1	
Methyl-tert-butyl ether	**0.0015 U**	mg/kg	0.0050	0.0015	1	10/09/23 19:31	10/10/23 07:25	1634-04-4	
Styrene	**0.0025 U**	mg/kg	0.0050	0.0025	1	10/09/23 19:31	10/10/23 07:25	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0010 U**	mg/kg	0.0050	0.0010	1	10/09/23 19:31	10/10/23 07:25	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00061 U**	mg/kg	0.0050	0.00061	1	10/09/23 19:31	10/10/23 07:25	79-34-5	
Tetrachloroethene	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	127-18-4	
Toluene	**0.0020 U**	mg/kg	0.0050	0.0020	1	10/09/23 19:31	10/10/23 07:25	108-88-3	
1,1,1-Trichloroethane	**0.0013 U**	mg/kg	0.0050	0.0013	1	10/09/23 19:31	10/10/23 07:25	71-55-6	
1,1,2-Trichloroethane	**0.00059 U**	mg/kg	0.0050	0.00059	1	10/09/23 19:31	10/10/23 07:25	79-00-5	
Trichloroethene	**0.0012 U**	mg/kg	0.0050	0.0012	1	10/09/23 19:31	10/10/23 07:25	79-01-6	
Trichlorofluoromethane	**0.0025 U**	mg/kg	0.0050	0.0025	1	10/09/23 19:31	10/10/23 07:25	75-69-4	
1,2,3-Trichloropropane	**0.0015 U**	mg/kg	0.0050	0.0015	1	10/09/23 19:31	10/10/23 07:25	96-18-4	
Vinyl acetate	**0.0016 U**	mg/kg	0.0050	0.0016	1	10/09/23 19:31	10/10/23 07:25	108-05-4	
Vinyl chloride	**0.0021 U**	mg/kg	0.0050	0.0021	1	10/09/23 19:31	10/10/23 07:25	75-01-4	
Xylene (Total)	**0.0051 U**	mg/kg	0.015	0.0051	1	10/09/23 19:31	10/10/23 07:25	1330-20-7	
m&p-Xylene	**0.0051 U**	mg/kg	0.010	0.0051	1	10/09/23 19:31	10/10/23 07:25	179601-23-1	
o-Xylene	**0.00096 U**	mg/kg	0.0050	0.00096	1	10/09/23 19:31	10/10/23 07:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	68-125		1	10/09/23 19:31	10/10/23 07:25	460-00-4	
Toluene-d8 (S)	111	%	70-130		1	10/09/23 19:31	10/10/23 07:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-008 **Lab ID: 35832847008** Collected: 10/05/23 11:30 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1	10/09/23 19:31	10/10/23 07:25	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**16.9**	%	0.10	0.10	1		10/18/23 12:13		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**784000**	mg/kg	10.0	10.0	1		10/08/23 16:59		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**7.3**	%	0.10	0.10	1		10/20/23 10:40		
Total Organic Carbon	**3290**	mg/kg	719	214	1		10/20/23 10:40	7440-44-0	
Total Organic Carbon	**3540**	mg/kg	722	215	1		10/20/23 10:46	7440-44-0	
Mean Total Organic Carbon	**3420**	mg/kg	720	215	1		10/20/23 10:40	7440-44-0	

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0012 U**	mg/kg	0.012	0.0012	1	10/10/23 17:11	10/11/23 15:54	309-00-2	P1
alpha-BHC	**0.00066 U**	mg/kg	0.012	0.00066	1	10/10/23 17:11	10/11/23 15:54	319-84-6	P1
beta-BHC	**0.0014 U**	mg/kg	0.012	0.0014	1	10/10/23 17:11	10/11/23 15:54	319-85-7	P1
delta-BHC	**0.00062 U**	mg/kg	0.012	0.00062	1	10/10/23 17:11	10/11/23 15:54	319-86-8	P1
gamma-BHC (Lindane)	**0.00035 U**	mg/kg	0.012	0.00035	1	10/10/23 17:11	10/11/23 15:54	58-89-9	P1
Chlordane (Technical)	**0.036 U**	mg/kg	0.12	0.036	1	10/10/23 17:11	10/11/23 15:54	57-74-9	P1
4,4'-DDD	**0.00054 U**	mg/kg	0.012	0.00054	1	10/10/23 17:11	10/11/23 15:54	72-54-8	P1
4,4'-DDE	**0.00047 U**	mg/kg	0.012	0.00047	1	10/10/23 17:11	10/11/23 15:54	72-55-9	P1
4,4'-DDT	**0.00072 U**	mg/kg	0.012	0.00072	1	10/10/23 17:11	10/11/23 15:54	50-29-3	P1
Dieldrin	**0.00046 U**	mg/kg	0.012	0.00046	1	10/10/23 17:11	10/11/23 15:54	60-57-1	P1
Endosulfan I	**0.0013 U**	mg/kg	0.012	0.0013	1	10/10/23 17:11	10/11/23 15:54	959-98-8	P1
Endosulfan II	**0.00054 U**	mg/kg	0.012	0.00054	1	10/10/23 17:11	10/11/23 15:54	33213-65-9	P1
Endosulfan sulfate	**0.00047 U**	mg/kg	0.012	0.00047	1	10/10/23 17:11	10/11/23 15:54	1031-07-8	P1
Endrin	**0.00076 U**	mg/kg	0.012	0.00076	1	10/10/23 17:11	10/11/23 15:54	72-20-8	P1
Endrin aldehyde	**0.00078 U**	mg/kg	0.024	0.00078	1	10/10/23 17:11	10/11/23 15:54	7421-93-4	P1
Endrin ketone	**0.00056 U**	mg/kg	0.012	0.00056	1	10/10/23 17:11	10/11/23 15:54	53494-70-5	P1

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Heptachlor	**0.0013 U**	mg/kg	0.012	0.0013	1	10/10/23 17:11	10/11/23 15:54	76-44-8	P1
Heptachlor epoxide	**0.00052 U**	mg/kg	0.012	0.00052	1	10/10/23 17:11	10/11/23 15:54	1024-57-3	P1
Methoxychlor	**0.0018 U**	mg/kg	0.012	0.0018	1	10/10/23 17:11	10/11/23 15:54	72-43-5	P1
Toxaphene	**0.052 U**	mg/kg	0.12	0.052	1	10/10/23 17:11	10/11/23 15:54	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	91	%	53-140		1	10/10/23 17:11	10/11/23 15:54	877-09-8	
Decachlorobiphenyl (S)	90	%	43-157		1	10/10/23 17:11	10/11/23 15:54	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**15.8 U**	mg/kg	18.3	15.8	1	10/07/23 15:59	10/09/23 20:30		P1
Surrogates									
o-Terphenyl (S)	84	%	66-136		1	10/07/23 15:59	10/09/23 20:30	84-15-1	
N-Pentatriacontane (S)	94	%	42-159		1	10/07/23 15:59	10/09/23 20:30	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.22 U**	mg/kg	1.4	0.22	20	10/13/23 11:43	10/15/23 23:03	7440-38-2	
Barium	**0.25 U**	mg/kg	1.4	0.25	20	10/13/23 11:43	10/15/23 23:03	7440-39-3	
Cadmium	**0.036 U**	mg/kg	0.16	0.036	20	10/13/23 11:43	10/15/23 23:03	7440-43-9	
Chromium	**0.78 U**	mg/kg	1.4	0.78	20	10/13/23 11:43	10/15/23 23:03	7440-47-3	
Copper	**0.80 I**	mg/kg	2.7	0.70	20	10/13/23 11:43	10/15/23 23:03	7440-50-8	
Lead	**0.50 U**	mg/kg	1.4	0.50	20	10/13/23 11:43	10/15/23 23:03	7439-92-1	
Selenium	**0.70 U**	mg/kg	1.4	0.70	20	10/13/23 11:43	10/15/23 23:03	7782-49-2	
Silver	**0.052 U**	mg/kg	0.16	0.052	20	10/13/23 11:43	10/15/23 23:03	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0044 U**	mg/kg	0.0088	0.0044	1	10/18/23 11:06	10/18/23 14:02	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.11 U**	mg/kg	0.25	0.11	1	10/10/23 18:17	10/20/23 19:03	83-32-9	P1
Acenaphthylene	**0.037 U**	mg/kg	0.24	0.037	1	10/10/23 18:17	10/20/23 19:03	208-96-8	P1
Aniline	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 19:03	62-53-3	P1
Anthracene	**0.032 U**	mg/kg	0.25	0.032	1	10/10/23 18:17	10/20/23 19:03	120-12-7	P1
Benzo(a)anthracene	**0.031 U**	mg/kg	0.24	0.031	1	10/10/23 18:17	10/20/23 19:03	56-55-3	P1
Benzo(a)pyrene	**0.058 U**	mg/kg	0.24	0.058	1	10/10/23 18:17	10/20/23 19:03	50-32-8	P1
Benzo(b)fluoranthene	**0.063 U**	mg/kg	0.24	0.063	1	10/10/23 18:17	10/20/23 19:03	205-99-2	P1
Benzo(g,h,i)perylene	**0.059 U**	mg/kg	0.24	0.059	1	10/10/23 18:17	10/20/23 19:03	191-24-2	P1
Benzo(k)fluoranthene	**0.063 U**	mg/kg	0.24	0.063	1	10/10/23 18:17	10/20/23 19:03	207-08-9	P1
Benzyl alcohol	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:03	100-51-6	J(L1), P1
4-Bromophenylphenyl ether	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 19:03	101-55-3	P1

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(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Butylbenzylphthalate	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:03	85-68-7	J(L1), P1
4-Chloro-3-methylphenol	**0.69 U**	mg/kg	4.7	0.69	1	10/10/23 18:17	10/20/23 19:03	59-50-7	P1
4-Chloroaniline	**0.18 U**	mg/kg	1.2	0.18	1	10/10/23 18:17	10/20/23 19:03	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:03	111-91-1	J(L1), P1
bis(2-Chloroethyl) ether	**0.076 U**	mg/kg	1.2	0.076	1	10/10/23 18:17	10/20/23 19:03	111-44-4	J(L1), P1
bis(2-Chloroisopropyl) ether	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:03	108-60-1	P1
2-Chloronaphthalene	**0.056 U**	mg/kg	1.2	0.056	1	10/10/23 18:17	10/20/23 19:03	91-58-7	P1
2-Chlorophenol	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 19:03	95-57-8	P1
4-Chlorophenylphenyl ether	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:03	7005-72-3	P1
Chrysene	**0.031 U**	mg/kg	0.24	0.031	1	10/10/23 18:17	10/20/23 19:03	218-01-9	P1
Dibenz(a,h)anthracene	**0.054 U**	mg/kg	0.24	0.054	1	10/10/23 18:17	10/20/23 19:03	53-70-3	P1
Dibenzofuran	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 19:03	132-64-9	P1
1,2-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:03	95-50-1	J(L1), P1
1,3-Dichlorobenzene	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 19:03	541-73-1	P1
1,4-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:03	106-46-7	P1
3,3'-Dichlorobenzidine	**0.23 U**	mg/kg	4.7	0.23	1	10/10/23 18:17	10/20/23 19:03	91-94-1	P1
2,4-Dichlorophenol	**0.052 U**	mg/kg	1.2	0.052	1	10/10/23 18:17	10/20/23 19:03	120-83-2	P1
Diethylphthalate	**0.40 U**	mg/kg	1.2	0.40	1	10/10/23 18:17	10/20/23 19:03	84-66-2	P1
2,4-Dimethylphenol	**0.21 U**	mg/kg	1.2	0.21	1	10/10/23 18:17	10/20/23 19:03	105-67-9	P1
Dimethylphthalate	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 19:03	131-11-3	P1
Di-n-butylphthalate	**0.92 U**	mg/kg	1.2	0.92	1	10/10/23 18:17	10/20/23 19:03	84-74-2	J(L1), P1
4,6-Dinitro-2-methylphenol	**1.5 U**	mg/kg	4.7	1.5	1	10/10/23 18:17	10/20/23 19:03	534-52-1	P1
2,4-Dinitrophenol	**0.69 U**	mg/kg	4.7	0.69	1	10/10/23 18:17	10/20/23 19:03	51-28-5	P1
2,4-Dinitrotoluene	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 19:03	121-14-2	P1
2,6-Dinitrotoluene	**0.057 U**	mg/kg	1.2	0.057	1	10/10/23 18:17	10/20/23 19:03	606-20-2	P1
Di-n-octylphthalate	**0.28 U**	mg/kg	1.2	0.28	1	10/10/23 18:17	10/20/23 19:03	117-84-0	J(L1), P1
1,2-Diphenylhydrazine	**0.26 U**	mg/kg	1.2	0.26	1	10/10/23 18:17	10/20/23 19:03	122-66-7	J(L1), P1
bis(2-Ethylhexyl)phthalate	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:03	117-81-7	J(L1), P1
Fluoranthene	**0.076 U**	mg/kg	0.24	0.076	1	10/10/23 18:17	10/20/23 19:03	206-44-0	P1
Fluorene	**0.083 U**	mg/kg	0.26	0.083	1	10/10/23 18:17	10/20/23 19:03	86-73-7	P1
Hexachloro-1,3-butadiene	**0.083 U**	mg/kg	1.2	0.083	1	10/10/23 18:17	10/20/23 19:03	87-68-3	P1
Hexachlorobenzene	**0.046 U**	mg/kg	1.2	0.046	1	10/10/23 18:17	10/20/23 19:03	118-74-1	P1
Hexachlorocyclopentadiene	**0.85 U**	mg/kg	4.7	0.85	1	10/10/23 18:17	10/20/23 19:03	77-47-4	J(v2),P1
Hexachloroethane	**0.18 U**	mg/kg	1.2	0.18	1	10/10/23 18:17	10/20/23 19:03	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.053 U**	mg/kg	0.24	0.053	1	10/10/23 18:17	10/20/23 19:03	193-39-5	P1
Isophorone	**0.20 U**	mg/kg	1.2	0.20	1	10/10/23 18:17	10/20/23 19:03	78-59-1	J(L1), P1
1-Methylnaphthalene	**0.039 U**	mg/kg	0.28	0.039	1	10/10/23 18:17	10/20/23 19:03	90-12-0	P1
2-Methylnaphthalene	**0.037 U**	mg/kg	0.27	0.037	1	10/10/23 18:17	10/20/23 19:03	91-57-6	P1

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
2-Methylphenol(o-Cresol)	**0.056 U**	mg/kg	1.2	0.056	1	10/10/23 18:17	10/20/23 19:03	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.053 U**	mg/kg	1.2	0.053	1	10/10/23 18:17	10/20/23 19:03		P1
Naphthalene	**0.083 U**	mg/kg	0.24	0.083	1	10/10/23 18:17	10/20/23 19:03	91-20-3	P1
2-Nitroaniline	**0.29 U**	mg/kg	1.2	0.29	1	10/10/23 18:17	10/20/23 19:03	88-74-4	P1
3-Nitroaniline	**0.26 U**	mg/kg	1.2	0.26	1	10/10/23 18:17	10/20/23 19:03	99-09-2	J(L1), P1
4-Nitroaniline	**0.059 U**	mg/kg	1.2	0.059	1	10/10/23 18:17	10/20/23 19:03	100-01-6	P1
Nitrobenzene	**0.078 U**	mg/kg	1.2	0.078	1	10/10/23 18:17	10/20/23 19:03	98-95-3	J(L1), P1
2-Nitrophenol	**0.38 U**	mg/kg	1.2	0.38	1	10/10/23 18:17	10/20/23 19:03	88-75-5	P1
4-Nitrophenol	**0.51 U**	mg/kg	1.5	0.51	1	10/10/23 18:17	10/20/23 19:03	100-02-7	P1
N-Nitrosodimethylamine	**0.076 U**	mg/kg	1.2	0.076	1	10/10/23 18:17	10/20/23 19:03	62-75-9	J(L1), P1
N-Nitroso-di-n-propylamine	**0.046 U**	mg/kg	1.2	0.046	1	10/10/23 18:17	10/20/23 19:03	621-64-7	J(L1), P1
N-Nitrosodiphenylamine	**0.15 U**	mg/kg	1.2	0.15	1	10/10/23 18:17	10/20/23 19:03	86-30-6	J(L1), P1
Pentachlorophenol	**0.60 U**	mg/kg	4.7	0.60	1	10/10/23 18:17	10/20/23 19:03	87-86-5	P1
Phenanthrene	**0.033 U**	mg/kg	0.24	0.033	1	10/10/23 18:17	10/20/23 19:03	85-01-8	P1
Phenol	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 19:03	108-95-2	P1
Pyrene	**0.069 U**	mg/kg	0.24	0.069	1	10/10/23 18:17	10/20/23 19:03	129-00-0	P1
1,2,4-Trichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:03	120-82-1	P1
2,4,5-Trichlorophenol	**0.047 U**	mg/kg	1.2	0.047	1	10/10/23 18:17	10/20/23 19:03	95-95-4	P1
2,4,6-Trichlorophenol	**0.064 U**	mg/kg	1.2	0.064	1	10/10/23 18:17	10/20/23 19:03	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	82	%	24-98		1	10/10/23 18:17	10/20/23 19:03	4165-60-0	
2-Fluorobiphenyl (S)	78	%	29-101		1	10/10/23 18:17	10/20/23 19:03	321-60-8	
p-Terphenyl-d14 (S)	89	%	29-112		1	10/10/23 18:17	10/20/23 19:03	1718-51-0	
Phenol-d6 (S)	77	%	10-104		1	10/10/23 18:17	10/20/23 19:03	13127-88-3	
2-Fluorophenol (S)	78	%	19-95		1	10/10/23 18:17	10/20/23 19:03	367-12-4	
2,4,6-Tribromophenol (S)	76	%	23-110		1	10/10/23 18:17	10/20/23 19:03	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.18**	mg/kg	0.059	0.026	1	10/09/23 19:31	10/10/23 07:48	67-64-1	
Acetonitrile	**0.018 U**	mg/kg	0.059	0.018	1	10/09/23 19:31	10/10/23 07:48	75-05-8	
Benzene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 07:48	71-43-2	
Bromochloromethane	**0.00088 U**	mg/kg	0.0059	0.00088	1	10/09/23 19:31	10/10/23 07:48	74-97-5	J(v1)
Bromodichloromethane	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 07:48	75-27-4	
Bromoform	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 07:48	75-25-2	
Bromomethane	**0.0021 U**	mg/kg	0.0059	0.0021	1	10/09/23 19:31	10/10/23 07:48	74-83-9	
2-Butanone (MEK)	**0.0059 U**	mg/kg	0.059	0.0059	1	10/09/23 19:31	10/10/23 07:48	78-93-3	
Carbon disulfide	**0.0030 U**	mg/kg	0.0059	0.0030	1	10/09/23 19:31	10/10/23 07:48	75-15-0	J(v1)
Carbon tetrachloride	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	56-23-5	
Chlorobenzene	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 07:48	108-90-7	
Chloroethane	**0.0025 U**	mg/kg	0.0059	0.0025	1	10/09/23 19:31	10/10/23 07:48	75-00-3	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Chloroform	**0.0022 U**	mg/kg	0.0059	0.0022	1	10/09/23 19:31	10/10/23 07:48	67-66-3	
Chloromethane	**0.0023 U**	mg/kg	0.0059	0.0023	1	10/09/23 19:31	10/10/23 07:48	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	96-12-8	
Dibromochloromethane	**0.0010 U**	mg/kg	0.0059	0.0010	1	10/09/23 19:31	10/10/23 07:48	124-48-1	
1,2-Dibromoethane (EDB)	**0.00088 U**	mg/kg	0.0059	0.00088	1	10/09/23 19:31	10/10/23 07:48	106-93-4	
Dibromomethane	**0.00084 U**	mg/kg	0.0059	0.00084	1	10/09/23 19:31	10/10/23 07:48	74-95-3	J(v1)
1,2-Dichlorobenzene	**0.00090 U**	mg/kg	0.0059	0.00090	1	10/09/23 19:31	10/10/23 07:48	95-50-1	
1,4-Dichlorobenzene	**0.00080 U**	mg/kg	0.0059	0.00080	1	10/09/23 19:31	10/10/23 07:48	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	110-57-6	
1,1-Dichloroethane	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 07:48	75-34-3	
1,2-Dichloroethane	**0.00091 U**	mg/kg	0.0059	0.00091	1	10/09/23 19:31	10/10/23 07:48	107-06-2	
1,2-Dichloroethene (Total)	**0.0036 U**	mg/kg	0.0059	0.0036	1	10/09/23 19:31	10/10/23 07:48	540-59-0	
1,1-Dichloroethene	**0.0030 U**	mg/kg	0.0059	0.0030	1	10/09/23 19:31	10/10/23 07:48	75-35-4	
cis-1,2-Dichloroethene	**0.0013 U**	mg/kg	0.0059	0.0013	1	10/09/23 19:31	10/10/23 07:48	156-59-2	
trans-1,2-Dichloroethene	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 07:48	156-60-5	
1,2-Dichloropropane	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 07:48	78-87-5	
cis-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 07:48	10061-01-5	
trans-1,3-Dichloropropene	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 07:48	10061-02-6	
Ethylbenzene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	100-41-4	
2-Hexanone	**0.0059 U**	mg/kg	0.030	0.0059	1	10/09/23 19:31	10/10/23 07:48	591-78-6	
Iodomethane	**0.0013 U**	mg/kg	0.012	0.0013	1	10/09/23 19:31	10/10/23 07:48	74-88-4	
Isopropylbenzene (Cumene)	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 07:48	98-82-8	
Methylene Chloride	**0.0052 U**	mg/kg	0.0059	0.0052	1	10/09/23 19:31	10/10/23 07:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0059 U**	mg/kg	0.030	0.0059	1	10/09/23 19:31	10/10/23 07:48	108-10-1	
Methyl-tert-butyl ether	**0.0018 U**	mg/kg	0.0059	0.0018	1	10/09/23 19:31	10/10/23 07:48	1634-04-4	
Styrene	**0.0030 U**	mg/kg	0.0059	0.0030	1	10/09/23 19:31	10/10/23 07:48	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0012 U**	mg/kg	0.0059	0.0012	1	10/09/23 19:31	10/10/23 07:48	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00072 U**	mg/kg	0.0059	0.00072	1	10/09/23 19:31	10/10/23 07:48	79-34-5	
Tetrachloroethene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	127-18-4	
Toluene	**0.0024 U**	mg/kg	0.0059	0.0024	1	10/09/23 19:31	10/10/23 07:48	108-88-3	
1,1,1-Trichloroethane	**0.0015 U**	mg/kg	0.0059	0.0015	1	10/09/23 19:31	10/10/23 07:48	71-55-6	
1,1,2-Trichloroethane	**0.00070 U**	mg/kg	0.0059	0.00070	1	10/09/23 19:31	10/10/23 07:48	79-00-5	
Trichloroethene	**0.0014 U**	mg/kg	0.0059	0.0014	1	10/09/23 19:31	10/10/23 07:48	79-01-6	
Trichlorofluoromethane	**0.0030 U**	mg/kg	0.0059	0.0030	1	10/09/23 19:31	10/10/23 07:48	75-69-4	
1,2,3-Trichloropropane	**0.0018 U**	mg/kg	0.0059	0.0018	1	10/09/23 19:31	10/10/23 07:48	96-18-4	
Vinyl acetate	**0.0019 U**	mg/kg	0.0059	0.0019	1	10/09/23 19:31	10/10/23 07:48	108-05-4	
Vinyl chloride	**0.0025 U**	mg/kg	0.0059	0.0025	1	10/09/23 19:31	10/10/23 07:48	75-01-4	
Xylene (Total)	**0.0061 U**	mg/kg	0.018	0.0061	1	10/09/23 19:31	10/10/23 07:48	1330-20-7	
m&p-Xylene	**0.0061 U**	mg/kg	0.012	0.0061	1	10/09/23 19:31	10/10/23 07:48	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0059	0.0011	1	10/09/23 19:31	10/10/23 07:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	68-125		1	10/09/23 19:31	10/10/23 07:48	460-00-4	
Toluene-d8 (S)	109	%	70-130		1	10/09/23 19:31	10/10/23 07:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1	10/09/23 19:31	10/10/23 07:48	2199-69-1	

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(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-009 **Lab ID: 35832847009** Collected: 10/05/23 11:40 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**18.2**	%	0.10	0.10	1		10/18/23 12:14		
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**818000**	mg/kg	10.0	10.0	1		10/08/23 16:59		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**15.9**	%	0.10	0.10	1		10/20/23 10:52		
Total Organic Carbon	**1760**	mg/kg	733	219	1		10/20/23 10:52	7440-44-0	
Total Organic Carbon	**1500**	mg/kg	727	217	1		10/20/23 10:58	7440-44-0	
Mean Total Organic Carbon	**1630**	mg/kg	730	218	1		10/20/23 10:52	7440-44-0	

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0013 U**	mg/kg	0.013	0.0013	1	10/10/23 17:11	10/11/23 16:07	309-00-2	P1
alpha-BHC	**0.00072 U**	mg/kg	0.013	0.00072	1	10/10/23 17:11	10/11/23 16:07	319-84-6	P1
beta-BHC	**0.0016 U**	mg/kg	0.013	0.0016	1	10/10/23 17:11	10/11/23 16:07	319-85-7	P1
delta-BHC	**0.00068 U**	mg/kg	0.013	0.00068	1	10/10/23 17:11	10/11/23 16:07	319-86-8	P1
gamma-BHC (Lindane)	**0.00038 U**	mg/kg	0.013	0.00038	1	10/10/23 17:11	10/11/23 16:07	58-89-9	P1
Chlordane (Technical)	**0.040 U**	mg/kg	0.13	0.040	1	10/10/23 17:11	10/11/23 16:07	57-74-9	P1
4,4'-DDD	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 16:07	72-54-8	P1
4,4'-DDE	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 16:07	72-55-9	P1
4,4'-DDT	**0.00079 U**	mg/kg	0.013	0.00079	1	10/10/23 17:11	10/11/23 16:07	50-29-3	P1
Dieldrin	**0.00050 U**	mg/kg	0.013	0.00050	1	10/10/23 17:11	10/11/23 16:07	60-57-1	P1
Endosulfan I	**0.0015 U**	mg/kg	0.013	0.0015	1	10/10/23 17:11	10/11/23 16:07	959-98-8	P1
Endosulfan II	**0.00059 U**	mg/kg	0.013	0.00059	1	10/10/23 17:11	10/11/23 16:07	33213-65-9	P1
Endosulfan sulfate	**0.00052 U**	mg/kg	0.013	0.00052	1	10/10/23 17:11	10/11/23 16:07	1031-07-8	P1
Endrin	**0.00083 U**	mg/kg	0.013	0.00083	1	10/10/23 17:11	10/11/23 16:07	72-20-8	P1
Endrin aldehyde	**0.00085 U**	mg/kg	0.026	0.00085	1	10/10/23 17:11	10/11/23 16:07	7421-93-4	P1
Endrin ketone	**0.00061 U**	mg/kg	0.013	0.00061	1	10/10/23 17:11	10/11/23 16:07	53494-70-5	P1
Heptachlor	**0.0014 U**	mg/kg	0.013	0.0014	1	10/10/23 17:11	10/11/23 16:07	76-44-8	P1
Heptachlor epoxide	**0.00057 U**	mg/kg	0.013	0.00057	1	10/10/23 17:11	10/11/23 16:07	1024-57-3	P1
Methoxychlor	**0.0019 U**	mg/kg	0.013	0.0019	1	10/10/23 17:11	10/11/23 16:07	72-43-5	P1
Toxaphene	**0.057 U**	mg/kg	0.13	0.057	1	10/10/23 17:11	10/11/23 16:07	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	98	%	53-140		1	10/10/23 17:11	10/11/23 16:07	877-09-8	

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Surrogates									
Decachlorobiphenyl (S)	97	%	43-157		1	10/10/23 17:11	10/11/23 16:07	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**33.9 U**	mg/kg	39.4	33.9	1	10/07/23 15:59	10/09/23 20:44		P1
Surrogates									
o-Terphenyl (S)	80	%	66-136		1	10/07/23 15:59	10/09/23 20:44	84-15-1	
N-Pentatriacontane (S)	92	%	42-159		1	10/07/23 15:59	10/09/23 20:44	630-07-09	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**0.23 U**	mg/kg	1.4	0.23	20	10/13/23 11:43	10/15/23 23:06	7440-38-2	
Barium	**0.26 U**	mg/kg	1.4	0.26	20	10/13/23 11:43	10/15/23 23:06	7440-39-3	
Cadmium	**0.037 U**	mg/kg	0.17	0.037	20	10/13/23 11:43	10/15/23 23:06	7440-43-9	
Chromium	**0.82 U**	mg/kg	1.4	0.82	20	10/13/23 11:43	10/15/23 23:06	7440-47-3	
Copper	**1.1 I**	mg/kg	2.9	0.73	20	10/13/23 11:43	10/15/23 23:06	7440-50-8	
Lead	**0.52 U**	mg/kg	1.4	0.52	20	10/13/23 11:43	10/15/23 23:06	7439-92-1	
Selenium	**0.74 U**	mg/kg	1.4	0.74	20	10/13/23 11:43	10/15/23 23:06	7782-49-2	
Silver	**0.055 U**	mg/kg	0.17	0.055	20	10/13/23 11:43	10/15/23 23:06	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Ormond Beach								
Mercury	**0.0052 U**	mg/kg	0.010	0.0052	1	10/18/23 11:06	10/18/23 14:04	7439-97-6	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.12 U**	mg/kg	0.26	0.12	1	10/10/23 18:17	10/20/23 19:29	83-32-9	P1
Acenaphthylene	**0.039 U**	mg/kg	0.25	0.039	1	10/10/23 18:17	10/20/23 19:29	208-96-8	P1
Aniline	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:29	62-53-3	P1
Anthracene	**0.033 U**	mg/kg	0.26	0.033	1	10/10/23 18:17	10/20/23 19:29	120-12-7	P1
Benzo(a)anthracene	**0.033 U**	mg/kg	0.25	0.033	1	10/10/23 18:17	10/20/23 19:29	56-55-3	P1
Benzo(a)pyrene	**0.061 U**	mg/kg	0.25	0.061	1	10/10/23 18:17	10/20/23 19:29	50-32-8	P1
Benzo(b)fluoranthene	**0.066 U**	mg/kg	0.25	0.066	1	10/10/23 18:17	10/20/23 19:29	205-99-2	P1
Benzo(g,h,i)perylene	**0.062 U**	mg/kg	0.25	0.062	1	10/10/23 18:17	10/20/23 19:29	191-24-2	P1
Benzo(k)fluoranthene	**0.066 U**	mg/kg	0.25	0.066	1	10/10/23 18:17	10/20/23 19:29	207-08-9	P1
Benzyl alcohol	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 19:29	100-51-6	J(L1), P1
4-Bromophenylphenyl ether	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 19:29	101-55-3	P1
Butylbenzylphthalate	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 19:29	85-68-7	J(L1), P1
4-Chloro-3-methylphenol	**0.73 U**	mg/kg	4.9	0.73	1	10/10/23 18:17	10/20/23 19:29	59-50-7	P1
4-Chloroaniline	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 19:29	106-47-8	P1
bis(2-Chloroethoxy)methane	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	111-91-1	J(L1), P1

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ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
bis(2-Chloroethyl) ether	**0.080 U**	mg/kg	1.2	0.080	1	10/10/23 18:17	10/20/23 19:29	111-44-4	J(L1), P1
bis(2-Chloroisopropyl) ether	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 19:29	108-60-1	P1
2-Chloronaphthalene	**0.058 U**	mg/kg	1.2	0.058	1	10/10/23 18:17	10/20/23 19:29	91-58-7	P1
2-Chlorophenol	**0.20 U**	mg/kg	1.2	0.20	1	10/10/23 18:17	10/20/23 19:29	95-57-8	P1
4-Chlorophenylphenyl ether	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	7005-72-3	P1
Chrysene	**0.033 U**	mg/kg	0.25	0.033	1	10/10/23 18:17	10/20/23 19:29	218-01-9	P1
Dibenz(a,h)anthracene	**0.057 U**	mg/kg	0.25	0.057	1	10/10/23 18:17	10/20/23 19:29	53-70-3	P1
Dibenzofuran	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	132-64-9	P1
1,2-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	95-50-1	J(L1), P1
1,3-Dichlorobenzene	**0.24 U**	mg/kg	1.2	0.24	1	10/10/23 18:17	10/20/23 19:29	541-73-1	P1
1,4-Dichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	106-46-7	P1
3,3'-Dichlorobenzidine	**0.24 U**	mg/kg	4.9	0.24	1	10/10/23 18:17	10/20/23 19:29	91-94-1	P1
2,4-Dichlorophenol	**0.055 U**	mg/kg	1.2	0.055	1	10/10/23 18:17	10/20/23 19:29	120-83-2	P1
Diethylphthalate	**0.42 U**	mg/kg	1.2	0.42	1	10/10/23 18:17	10/20/23 19:29	84-66-2	P1
2,4-Dimethylphenol	**0.22 U**	mg/kg	1.2	0.22	1	10/10/23 18:17	10/20/23 19:29	105-67-9	P1
Dimethylphthalate	**0.20 U**	mg/kg	1.2	0.20	1	10/10/23 18:17	10/20/23 19:29	131-11-3	P1
Di-n-butylphthalate	**0.97 U**	mg/kg	1.2	0.97	1	10/10/23 18:17	10/20/23 19:29	84-74-2	J(L1), P1
4,6-Dinitro-2-methylphenol	**1.6 U**	mg/kg	4.9	1.6	1	10/10/23 18:17	10/20/23 19:29	534-52-1	P1
2,4-Dinitrophenol	**0.73 U**	mg/kg	4.9	0.73	1	10/10/23 18:17	10/20/23 19:29	51-28-5	P1
2,4-Dinitrotoluene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	121-14-2	P1
2,6-Dinitrotoluene	**0.060 U**	mg/kg	1.2	0.060	1	10/10/23 18:17	10/20/23 19:29	606-20-2	P1
Di-n-octylphthalate	**0.30 U**	mg/kg	1.2	0.30	1	10/10/23 18:17	10/20/23 19:29	117-84-0	J(L1), P1
1,2-Diphenylhydrazine	**0.27 U**	mg/kg	1.2	0.27	1	10/10/23 18:17	10/20/23 19:29	122-66-7	J(L1), P1
bis(2-Ethylhexyl)phthalate	**0.25 U**	mg/kg	1.2	0.25	1	10/10/23 18:17	10/20/23 19:29	117-81-7	J(L1), P1
Fluoranthene	**0.080 U**	mg/kg	0.25	0.080	1	10/10/23 18:17	10/20/23 19:29	206-44-0	P1
Fluorene	**0.087 U**	mg/kg	0.27	0.087	1	10/10/23 18:17	10/20/23 19:29	86-73-7	P1
Hexachloro-1,3-butadiene	**0.087 U**	mg/kg	1.2	0.087	1	10/10/23 18:17	10/20/23 19:29	87-68-3	P1
Hexachlorobenzene	**0.048 U**	mg/kg	1.2	0.048	1	10/10/23 18:17	10/20/23 19:29	118-74-1	P1
Hexachlorocyclopentadiene	**0.90 U**	mg/kg	4.9	0.90	1	10/10/23 18:17	10/20/23 19:29	77-47-4	J(v2),P1
Hexachloroethane	**0.19 U**	mg/kg	1.2	0.19	1	10/10/23 18:17	10/20/23 19:29	67-72-1	P1
Indeno(1,2,3-cd)pyrene	**0.056 U**	mg/kg	0.25	0.056	1	10/10/23 18:17	10/20/23 19:29	193-39-5	P1
Isophorone	**0.21 U**	mg/kg	1.2	0.21	1	10/10/23 18:17	10/20/23 19:29	78-59-1	J(L1), P1
1-Methylnaphthalene	**0.041 U**	mg/kg	0.29	0.041	1	10/10/23 18:17	10/20/23 19:29	90-12-0	P1
2-Methylnaphthalene	**0.039 U**	mg/kg	0.28	0.039	1	10/10/23 18:17	10/20/23 19:29	91-57-6	P1
2-Methylphenol(o-Cresol)	**0.059 U**	mg/kg	1.2	0.059	1	10/10/23 18:17	10/20/23 19:29	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	**0.056 U**	mg/kg	1.2	0.056	1	10/10/23 18:17	10/20/23 19:29		P1
Naphthalene	**0.087 U**	mg/kg	0.25	0.087	1	10/10/23 18:17	10/20/23 19:29	91-20-3	P1
2-Nitroaniline	**0.31 U**	mg/kg	1.2	0.31	1	10/10/23 18:17	10/20/23 19:29	88-74-4	P1
3-Nitroaniline	**0.27 U**	mg/kg	1.2	0.27	1	10/10/23 18:17	10/20/23 19:29	99-09-2	J(L1), P1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
4-Nitroaniline	**0.062 U**	mg/kg	1.2	0.062	1	10/10/23 18:17	10/20/23 19:29	100-01-6	P1
Nitrobenzene	**0.082 U**	mg/kg	1.2	0.082	1	10/10/23 18:17	10/20/23 19:29	98-95-3	J(L1), P1
2-Nitrophenol	**0.39 U**	mg/kg	1.2	0.39	1	10/10/23 18:17	10/20/23 19:29	88-75-5	P1
4-Nitrophenol	**0.53 U**	mg/kg	1.6	0.53	1	10/10/23 18:17	10/20/23 19:29	100-02-7	P1
N-Nitrosodimethylamine	**0.080 U**	mg/kg	1.2	0.080	1	10/10/23 18:17	10/20/23 19:29	62-75-9	J(L1), P1
N-Nitroso-di-n-propylamine	**0.048 U**	mg/kg	1.2	0.048	1	10/10/23 18:17	10/20/23 19:29	621-64-7	J(L1), P1
N-Nitrosodiphenylamine	**0.16 U**	mg/kg	1.2	0.16	1	10/10/23 18:17	10/20/23 19:29	86-30-6	J(L1), P1
Pentachlorophenol	**0.63 U**	mg/kg	4.9	0.63	1	10/10/23 18:17	10/20/23 19:29	87-86-5	P1
Phenanthrene	**0.035 U**	mg/kg	0.25	0.035	1	10/10/23 18:17	10/20/23 19:29	85-01-8	P1
Phenol	**0.23 U**	mg/kg	1.2	0.23	1	10/10/23 18:17	10/20/23 19:29	108-95-2	P1
Pyrene	**0.072 U**	mg/kg	0.25	0.072	1	10/10/23 18:17	10/20/23 19:29	129-00-0	P1
1,2,4-Trichlorobenzene	**0.17 U**	mg/kg	1.2	0.17	1	10/10/23 18:17	10/20/23 19:29	120-82-1	P1
2,4,5-Trichlorophenol	**0.049 U**	mg/kg	1.2	0.049	1	10/10/23 18:17	10/20/23 19:29	95-95-4	P1
2,4,6-Trichlorophenol	**0.067 U**	mg/kg	1.2	0.067	1	10/10/23 18:17	10/20/23 19:29	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	82	%	24-98		1	10/10/23 18:17	10/20/23 19:29	4165-60-0	
2-Fluorobiphenyl (S)	82	%	29-101		1	10/10/23 18:17	10/20/23 19:29	321-60-8	
p-Terphenyl-d14 (S)	99	%	29-112		1	10/10/23 18:17	10/20/23 19:29	1718-51-0	
Phenol-d6 (S)	77	%	10-104		1	10/10/23 18:17	10/20/23 19:29	13127-88-3	
2-Fluorophenol (S)	77	%	19-95		1	10/10/23 18:17	10/20/23 19:29	367-12-4	
2,4,6-Tribromophenol (S)	78	%	23-110		1	10/10/23 18:17	10/20/23 19:29	118-79-6	
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Acetone	**0.19**	mg/kg	0.056	0.025	1	10/10/23 02:56	10/10/23 08:21	67-64-1	
Acetonitrile	**0.017 U**	mg/kg	0.056	0.017	1	10/10/23 02:56	10/10/23 08:21	75-05-8	
Benzene	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	71-43-2	
Bromochloromethane	**0.00084 U**	mg/kg	0.0056	0.00084	1	10/10/23 02:56	10/10/23 08:21	74-97-5	
Bromodichloromethane	**0.0012 U**	mg/kg	0.0056	0.0012	1	10/10/23 02:56	10/10/23 08:21	75-27-4	
Bromoform	**0.0012 U**	mg/kg	0.0056	0.0012	1	10/10/23 02:56	10/10/23 08:21	75-25-2	
Bromomethane	**0.0020 U**	mg/kg	0.0056	0.0020	1	10/10/23 02:56	10/10/23 08:21	74-83-9	J(v2)
2-Butanone (MEK)	**0.0056 U**	mg/kg	0.056	0.0056	1	10/10/23 02:56	10/10/23 08:21	78-93-3	
Carbon disulfide	**0.0028 U**	mg/kg	0.0056	0.0028	1	10/10/23 02:56	10/10/23 08:21	75-15-0	
Carbon tetrachloride	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	56-23-5	
Chlorobenzene	**0.0010 U**	mg/kg	0.0056	0.0010	1	10/10/23 02:56	10/10/23 08:21	108-90-7	
Chloroethane	**0.0024 U**	mg/kg	0.0056	0.0024	1	10/10/23 02:56	10/10/23 08:21	75-00-3	
Chloroform	**0.0021 U**	mg/kg	0.0056	0.0021	1	10/10/23 02:56	10/10/23 08:21	67-66-3	
Chloromethane	**0.0022 U**	mg/kg	0.0056	0.0022	1	10/10/23 02:56	10/10/23 08:21	74-87-3	
1,2-Dibromo-3-chloropropane	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	96-12-8	
Dibromochloromethane	**0.00098 U**	mg/kg	0.0056	0.00098	1	10/10/23 02:56	10/10/23 08:21	124-48-1	
1,2-Dibromoethane (EDB)	**0.00084 U**	mg/kg	0.0056	0.00084	1	10/10/23 02:56	10/10/23 08:21	106-93-4	

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035	Analytical Method: EPA 8260 Preparation Method: EPA 5035 Pace Analytical Services - Ormond Beach								
Dibromomethane	**0.00080 U**	mg/kg	0.0056	0.00080	1	10/10/23 02:56	10/10/23 08:21	74-95-3	
1,2-Dichlorobenzene	**0.00086 U**	mg/kg	0.0056	0.00086	1	10/10/23 02:56	10/10/23 08:21	95-50-1	
1,4-Dichlorobenzene	**0.00076 U**	mg/kg	0.0056	0.00076	1	10/10/23 02:56	10/10/23 08:21	106-46-7	
trans-1,4-Dichloro-2-butene	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	110-57-6	
1,1-Dichloroethane	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	75-34-3	
1,2-Dichloroethane	**0.00087 U**	mg/kg	0.0056	0.00087	1	10/10/23 02:56	10/10/23 08:21	107-06-2	
1,2-Dichloroethene (Total)	**0.0034 U**	mg/kg	0.0056	0.0034	1	10/10/23 02:56	10/10/23 08:21	540-59-0	
1,1-Dichloroethene	**0.0028 U**	mg/kg	0.0056	0.0028	1	10/10/23 02:56	10/10/23 08:21	75-35-4	
cis-1,2-Dichloroethene	**0.0012 U**	mg/kg	0.0056	0.0012	1	10/10/23 02:56	10/10/23 08:21	156-59-2	
trans-1,2-Dichloroethene	**0.0015 U**	mg/kg	0.0056	0.0015	1	10/10/23 02:56	10/10/23 08:21	156-60-5	
1,2-Dichloropropane	**0.0010 U**	mg/kg	0.0056	0.0010	1	10/10/23 02:56	10/10/23 08:21	78-87-5	
cis-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	10061-01-5	
trans-1,3-Dichloropropene	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	10061-02-6	
Ethylbenzene	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	100-41-4	
2-Hexanone	**0.0056 U**	mg/kg	0.028	0.0056	1	10/10/23 02:56	10/10/23 08:21	591-78-6	
Iodomethane	**0.0012 U**	mg/kg	0.011	0.0012	1	10/10/23 02:56	10/10/23 08:21	74-88-4	J(v1)
Isopropylbenzene (Cumene)	**0.0015 U**	mg/kg	0.0056	0.0015	1	10/10/23 02:56	10/10/23 08:21	98-82-8	
Methylene Chloride	**0.0050 U**	mg/kg	0.0056	0.0050	1	10/10/23 02:56	10/10/23 08:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0056 U**	mg/kg	0.028	0.0056	1	10/10/23 02:56	10/10/23 08:21	108-10-1	
Methyl-tert-butyl ether	**0.0017 U**	mg/kg	0.0056	0.0017	1	10/10/23 02:56	10/10/23 08:21	1634-04-4	
Styrene	**0.0028 U**	mg/kg	0.0056	0.0028	1	10/10/23 02:56	10/10/23 08:21	100-42-5	
1,1,1,2-Tetrachloroethane	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	630-20-6	
1,1,2,2-Tetrachloroethane	**0.00069 U**	mg/kg	0.0056	0.00069	1	10/10/23 02:56	10/10/23 08:21	79-34-5	
Tetrachloroethene	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	127-18-4	
Toluene	**0.0023 U**	mg/kg	0.0056	0.0023	1	10/10/23 02:56	10/10/23 08:21	108-88-3	
1,1,1-Trichloroethane	**0.0015 U**	mg/kg	0.0056	0.0015	1	10/10/23 02:56	10/10/23 08:21	71-55-6	
1,1,2-Trichloroethane	**0.00067 U**	mg/kg	0.0056	0.00067	1	10/10/23 02:56	10/10/23 08:21	79-00-5	
Trichloroethene	**0.0014 U**	mg/kg	0.0056	0.0014	1	10/10/23 02:56	10/10/23 08:21	79-01-6	
Trichlorofluoromethane	**0.0028 U**	mg/kg	0.0056	0.0028	1	10/10/23 02:56	10/10/23 08:21	75-69-4	
1,2,3-Trichloropropane	**0.0017 U**	mg/kg	0.0056	0.0017	1	10/10/23 02:56	10/10/23 08:21	96-18-4	
Vinyl acetate	**0.0018 U**	mg/kg	0.0056	0.0018	1	10/10/23 02:56	10/10/23 08:21	108-05-4	
Vinyl chloride	**0.0024 U**	mg/kg	0.0056	0.0024	1	10/10/23 02:56	10/10/23 08:21	75-01-4	
Xylene (Total)	**0.0058 U**	mg/kg	0.017	0.0058	1	10/10/23 02:56	10/10/23 08:21	1330-20-7	
m&p-Xylene	**0.0058 U**	mg/kg	0.011	0.0058	1	10/10/23 02:56	10/10/23 08:21	179601-23-1	
o-Xylene	**0.0011 U**	mg/kg	0.0056	0.0011	1	10/10/23 02:56	10/10/23 08:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	68-125		1	10/10/23 02:56	10/10/23 08:21	460-00-4	
Toluene-d8 (S)	102	%	70-130		1	10/10/23 02:56	10/10/23 08:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1	10/10/23 02:56	10/10/23 08:21	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**24.1**	%	0.10	0.10	1		10/18/23 12:14		

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2310221
Pace Project No.: 35832847

Sample: 2310221-010 **Lab ID: 35832847010** Collected: 10/05/23 11:50 Received: 10/06/23 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540G Total Solids	Analytical Method: SM 2540G Pace Analytical Services - Ormond Beach								
Total Solids	**748000**	mg/kg	10.0	10.0	1		10/08/23 16:59		
Total Organic Carbon	Analytical Method: EPA 9060 Modified Pace Analytical Services - Green Bay								
Surrogates									
RPD%	**1.1**	%	0.10	0.10	1		10/20/23 11:05		
Total Organic Carbon	**989**	mg/kg	783	234	1		10/20/23 11:05	7440-44-0	
Total Organic Carbon	**978**	mg/kg	790	236	1		10/20/23 11:10	7440-44-0	
Mean Total Organic Carbon	**983**	mg/kg	787	235	1		10/20/23 11:05	7440-44-0	

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(386)672-5668

QUALIFIERS

Project: 2310221
Pace Project No.: 35832847

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 957195

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Batch: 958003

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35832847001	**2310221-001**	EPA 3546	956660	EPA 8081	957036
35832847002	**2310221-002**	EPA 3546	956660	EPA 8081	957036
35832847003	**2310221-003**	EPA 3546	956884	EPA 8081	957028
35832847004	**2310221-004**	EPA 3546	956884	EPA 8081	957028
35832847005	**2310221-005**	EPA 3546	956884	EPA 8081	957028
35832847006	**2310221-006**	EPA 3546	956884	EPA 8081	957028
35832847007	**2310221-007**	EPA 3546	956884	EPA 8081	957028
35832847008	**2310221-008**	EPA 3546	956884	EPA 8081	957028
35832847009	**2310221-009**	EPA 3546	956884	EPA 8081	957028
35832847010	**2310221-010**	EPA 3546	956884	EPA 8081	957028
35832847001	**2310221-001**	EPA 3546	956155	FL-PRO	956340
35832847002	**2310221-002**	EPA 3546	956155	FL-PRO	956340
35832847003	**2310221-003**	EPA 3546	956155	FL-PRO	956340
35832847004	**2310221-004**	EPA 3546	956155	FL-PRO	956340
35832847005	**2310221-005**	EPA 3546	956155	FL-PRO	956340
35832847006	**2310221-006**	EPA 3546	956155	FL-PRO	956340
35832847007	**2310221-007**	EPA 3546	956155	FL-PRO	956340
35832847008	**2310221-008**	EPA 3546	956155	FL-PRO	956340
35832847009	**2310221-009**	EPA 3546	956155	FL-PRO	956340
35832847010	**2310221-010**	EPA 3546	956155	FL-PRO	956340
35832847001	**2310221-001**	EPA 3050	956609	EPA 6020	956695
35832847002	**2310221-002**	EPA 3050	956609	EPA 6020	956695
35832847003	**2310221-003**	EPA 3050	957030	EPA 6020	957195
35832847004	**2310221-004**	EPA 3050	957030	EPA 6020	957195
35832847005	**2310221-005**	EPA 3050	957030	EPA 6020	957195
35832847006	**2310221-006**	EPA 3050	957030	EPA 6020	957195
35832847007	**2310221-007**	EPA 3050	957851	EPA 6020	958003
35832847008	**2310221-008**	EPA 3050	957851	EPA 6020	958003
35832847009	**2310221-009**	EPA 3050	957851	EPA 6020	958003
35832847010	**2310221-010**	EPA 3050	957851	EPA 6020	958003
35832847001	**2310221-001**	EPA 7471	958369	EPA 7471	958659
35832847002	**2310221-002**	EPA 7471	958854	EPA 7471	959093
35832847003	**2310221-003**	EPA 7471	958854	EPA 7471	959093
35832847004	**2310221-004**	EPA 7471	958854	EPA 7471	959093
35832847005	**2310221-005**	EPA 7471	958854	EPA 7471	959093
35832847006	**2310221-006**	EPA 7471	958854	EPA 7471	959093
35832847007	**2310221-007**	EPA 7471	958854	EPA 7471	959093
35832847008	**2310221-008**	EPA 7471	958854	EPA 7471	959093
35832847009	**2310221-009**	EPA 7471	958854	EPA 7471	959093
35832847010	**2310221-010**	EPA 7471	958854	EPA 7471	959093
35832847001	**2310221-001**	EPA 3546	956577	EPA 8270	957452
35832847002	**2310221-002**	EPA 3546	956577	EPA 8270	957452
35832847003	**2310221-003**	EPA 3546	956577	EPA 8270	957452
35832847004	**2310221-004**	EPA 3546	956577	EPA 8270	957452

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35832847005	**2310221-005**	EPA 3546	956902	EPA 8270	959725
35832847006	**2310221-006**	EPA 3546	956902	EPA 8270	959725
35832847007	**2310221-007**	EPA 3546	956902	EPA 8270	959725
35832847008	**2310221-008**	EPA 3546	956902	EPA 8270	959725
35832847009	**2310221-009**	EPA 3546	956902	EPA 8270	959725
35832847010	**2310221-010**	EPA 3546	956902	EPA 8270	959725
35832847001	**2310221-001**	EPA 5035	956569	EPA 8260	956581
35832847002	**2310221-002**	EPA 5035	956569	EPA 8260	956581
35832847003	**2310221-003**	EPA 5035	956569	EPA 8260	956581
35832847004	**2310221-004**	EPA 5035	956569	EPA 8260	956581
35832847005	**2310221-005**	EPA 5035	956569	EPA 8260	956581
35832847006	**2310221-006**	EPA 5035	956569	EPA 8260	956581
35832847007	**2310221-007**	EPA 5035	956569	EPA 8260	956581
35832847008	**2310221-008**	EPA 5035	956569	EPA 8260	956581
35832847009	**2310221-009**	EPA 5035	956569	EPA 8260	956581
35832847010	**2310221-010**	EPA 5035	956570	EPA 8260	956580
35832847001	**2310221-001**	ASTM D2974-87	959088		
35832847002	**2310221-002**	ASTM D2974-87	959088		
35832847003	**2310221-003**	ASTM D2974-87	959088		
35832847004	**2310221-004**	ASTM D2974-87	959088		
35832847005	**2310221-005**	ASTM D2974-87	959088		
35832847006	**2310221-006**	ASTM D2974-87	959088		
35832847007	**2310221-007**	ASTM D2974-87	959088		
35832847008	**2310221-008**	ASTM D2974-87	959088		
35832847009	**2310221-009**	ASTM D2974-87	959088		
35832847010	**2310221-010**	ASTM D2974-87	959088		
35832847001	**2310221-001**	SM 2540G	956285		
35832847002	**2310221-002**	SM 2540G	956285		
35832847003	**2310221-003**	SM 2540G	956285		
35832847004	**2310221-004**	SM 2540G	956285		
35832847005	**2310221-005**	SM 2540G	956285		
35832847006	**2310221-006**	SM 2540G	956285		
35832847007	**2310221-007**	SM 2540G	956285		
35832847008	**2310221-008**	SM 2540G	956285		
35832847009	**2310221-009**	SM 2540G	956285		
35832847010	**2310221-010**	SM 2540G	956285		
35832847001	**2310221-001**	EPA 9060 Modified	458104		
35832847001	**2310221-001**	EPA 9060 Modified	458105		
35832847002	**2310221-002**	EPA 9060 Modified	458104		
35832847002	**2310221-002**	EPA 9060 Modified	458105		
35832847003	**2310221-003**	EPA 9060 Modified	458104		
35832847003	**2310221-003**	EPA 9060 Modified	458105		
35832847004	**2310221-004**	EPA 9060 Modified	458104		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2310221
Pace Project No.: 35832847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35832847004	**2310221-004**	EPA 9060 Modified	458105		
35832847005	**2310221-005**	EPA 9060 Modified	458104		
35832847005	**2310221-005**	EPA 9060 Modified	458105		
35832847006	**2310221-006**	EPA 9060 Modified	458104		
35832847006	**2310221-006**	EPA 9060 Modified	458105		
35832847007	**2310221-007**	EPA 9060 Modified	458104		
35832847007	**2310221-007**	EPA 9060 Modified	458105		
35832847008	**2310221-008**	EPA 9060 Modified	458104		
35832847008	**2310221-008**	EPA 9060 Modified	458105		
35832847009	**2310221-009**	EPA 9060 Modified	458104		
35832847009	**2310221-009**	EPA 9060 Modified	458105		
35832847010	**2310221-010**	EPA 9060 Modified	458104		
35832847010	**2310221-010**	EPA 9060 Modified	458105		

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Environmental Testing Services

CHAIN OF CUSTODY RECORD

Omega COCID 22693 | PAGE: 1 | OF: 6

WO# : 35832847

35832847

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRATOR: **Pace** COMPANY: **Pace Analytical**

ADDRESS: **8 East Tower Circle**

CITY, STATE, ZIP: **Ormond Beach, FL 32174**

PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2310221-001A See Attached	WS 1		Soil	10/5/2023 8:40:00 AM	1	TOC
2	2310221-001B See Attached	WS 1		Soil	10/5/2023 8:40:00 AM	1	Metals
3	2310221-001C See Attached	WS 1		Soil	10/5/2023 8:40:00 AM	1	VOC / 8270
4	2310221-001D See Attached	WS 1		Soil	10/5/2023 8:40:00 AM	1	BTEX / 8260
5	2310221-001E See Attached	WS 1		Soil	10/5/2023 8:40:00 AM	1	Hydrocarbons
6	2310221-002A See Attached	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	TOC
7	2310221-002B See Attached	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Metals
8	2310221-002C See Attached	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	VOC / 8270
9	2310221-002D See Attached	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	BTEX / 8260

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			ESpan	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

CHAIN OF CUSTODY RECORD

Omega COCID 22693 | PAGE: 2 | OF: 6

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SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
10	2310221-002E	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Hydrocarbons
	See Attached						
11	2310221-003A	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	TOC
	See Attached						
12	2310221-003B	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Metals
	See Attached						
13	2310221-003C	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	VOC / 8270
	See Attached						
14	2310221-003D	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	BTEX / 8260
	See Attached						
15	2310221-003E	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Hydrocarbons
	See Attached						
16	2310221-004A	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	TOC
	See Attached						
17	2310221-004B	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	Metals
	See Attached						
18	2310221-004C	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	VOC / 8270
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			ESpan	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

Sanders Laboratories
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CHAIN OF CUSTODY RECORD

Omega COCID 22693 | PAGE: 3 | OF: 6

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ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
19	2310221-004D See Attached	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	BTEX / 8260
20	2310221-004E See Attached	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	Hydrocarbons
21	2310221-005A See Attached	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	TOC
22	2310221-005B See Attached	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	Metals
23	2310221-005C See Attached	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	VOC / 8270
24	2310221-005D See Attached	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	BTEX / 8260
25	2310221-005E See Attached	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	Hydrocarbons
26	2310221-006A See Attached	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	TOC
27	2310221-006B See Attached	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	Metals

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			ESpan	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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Comments: _____

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CHAIN OF CUSTODY RECORD

Omega COCID 22693 | PAGE: 4 | OF: 6

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ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
28	2310221-006C	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	VOC / 8270
	See Attached						
29	2310221-006D	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	BTEX / 8260
	See Attached						
30	2310221-006E	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	Hydrocarbons
	See Attached						
31	2310221-007A	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	TOC
	See Attached						
32	2310221-007B	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	Metals
	See Attached						
33	2310221-007C	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	VOC / 8270
	See Attached						
34	2310221-007D	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	BTEX / 8260
	See Attached						
35	2310221-007E	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	Hydrocarbons
	See Attached						
36	2310221-008A	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	TOC
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			ESpace	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

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Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

CHAIN OF CUSTODY RECORD

Omega COCID 22693 | PAGE: 5 | OF: 6

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ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
37	2310221-008B	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Metals
	See Attached						
38	2310221-008C	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	VOC / 8270
	See Attached						
39	2310221-008D	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	BTEX / 8260
	See Attached						
40	2310221-008E	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Hydrocarbons
	See Attached						
41	2310221-009A	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	TOC
	See Attached						
42	2310221-009B	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Metals
	See Attached						
43	2310221-009C	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	VOC / 8270
	See Attached						
44	2310221-009D	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	BTEX / 8260
	See Attached						
45	2310221-009E	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Hydrocarbons
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			ESpare	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

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Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Omega COCID 22693	PAGE: 6	OF: 6

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ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
46	2310221-010A	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	TOC
	See Attached						
47	2310221-010B	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Metals
	See Attached						
48	2310221-010C	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	VOC / 8270
	See Attached						
49	2310221-010D	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	BTEX / 8260
	See Attached						
50	2310221-010E	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Hydrocarbons
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			ESpan	10/6/23	1115
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

CHAIN OF CUSTODY RECORD

Omega COCID 22696 | PAGE: 1 | OF: 6

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SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2310221-001A	WS 1		Soil	10/5/2023 8:40:00 AM	1	TOC
	See Attached						
2	2310221-001B	WS 1		Soil	10/5/2023 8:40:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
3	2310221-001C	WS 1		Soil	10/5/2023 8:40:00 AM	1	VOC / 8270
	See Attached						
4	2310221-001D	WS 1		Soil	10/5/2023 8:40:00 AM	1	BTEX / 8260 (8081)
	See Attached						
5	2310221-001E	WS 1		Soil	10/5/2023 8:40:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
6	2310221-002A	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	TOC
	See Attached						
7	2310221-002B	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
8	2310221-002C	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	VOC / 8270
	See Attached						
9	2310221-002D	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	BTEX / 8260 (8081)
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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Omega COCID 22696 | PAGE: 2 | OF: 6

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SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
10	2310221-002E	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
11	2310221-003A	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	TOC
	See Attached						
12	2310221-003B	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
13	2310221-003C	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	VOC / 8270
	See Attached						
14	2310221-003D	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	BTEX / 8260 (8081)
	See Attached						
15	2310221-003E	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
16	2310221-004A	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	TOC
	See Attached						
17	2310221-004B	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
18	2310221-004C	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	VOC / 8270
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Omega COCID 22696 | PAGE: 3 | OF: 6

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRATOR: **Pace** COMPANY: **Pace Analytical**
ADDRESS: **8 East Tower Circle**
CITY, STATE, ZIP: **Ormond Beach, FL 32174**
PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:
ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
19	2310221-004D	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	BTEX / 8260 (8081)
	See Attached						
20	2310221-004E	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
21	2310221-005A	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	TOC
	See Attached						
22	2310221-005B	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
23	2310221-005C	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	VOC / 8270
	See Attached						
24	2310221-005D	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	BTEX / 8260 (8081)
	See Attached						
25	2310221-005E	WS Soil 3 High		Soil	10/5/2023 10:25:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
26	2310221-006A	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	TOC
	See Attached						
27	2310221-006B	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	Metals
	See Attached						

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SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
28	2310221-006C	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	VOC / 8270
	See Attached						
29	2310221-006D	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	BTEX / 8260 (8081)
	See Attached						
30	2310221-006E	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
31	2310221-007A	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	TOC
	See Attached						
32	2310221-007B	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	Metals
	See Attached						
33	2310221-007C	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	VOC / 8270
	See Attached						
34	2310221-007D	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	BTEX / 8260 (8081)
	See Attached						
35	2310221-007E	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
36	2310221-008A	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	TOC
	See Attached						

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37	2310221-008B	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Metals
	See Attached						
38	2310221-008C	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	VOC / 8270
	See Attached						
39	2310221-008D	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	BTEX / 8260 (8081)
	See Attached						
40	2310221-008E	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
41	2310221-009A	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	TOC
	See Attached						
42	2310221-009B	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Metals
	See Attached						
43	2310221-009C	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	VOC / 8270
	See Attached						
44	2310221-009D	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	BTEX / 8260 (8081)
	See Attached						
45	2310221-009E	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						

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46	2310221-010A	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	TOC
	See Attached						
47	2310221-010B	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Metals
	See Attached						
48	2310221-010C	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	VOC / 8270
	See Attached						
49	2310221-010D	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	BTEX / 8260 (8081)
	See Attached						
50	2310221-010E	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						

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FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

Pace

Sample Condition Upon Rec

WO# : 35832847 **Due Date: 10/13/23**

PM: BTS

CLIENT: SANLAB

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: AVJ

Label:

Deliver:

pH:

Thermometer Used: T-409 Date: 10.6.23 Time: 1135 Initials: NPI

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	4.0 **(Visual)**	+0.1 **(Correction Factor)**	4.1 **(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #2 Temp.°C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #3 Temp.°C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #4 Temp.°C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #5 Temp.°C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #6 Temp.°C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	☐Samples on ice, cooling process has begun.
Recheck for OOT °C	____ **(Visual)**	____ **(Correction Factor)**	____ **(Actual)**	**Time:** ____ **Initials:** ____

Courier: ☑Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☐Pace ☐Other:

Shipping Method: ☐Standard Overnight ☐First Overnight ☑Priority Overnight ☐Ground ☐International Priority ☐Other:

Billing: ☑Recipient ☐Sender ☐Third Party ☐Credit Card ☐Unknown

Tracking # 818054741595

Custody Seal Present: ☐Yes ☑No **Seal properly placed and intact:** ☐Yes ☑No **Ice:** ☑Wet ☐Blue ☐Dry ☐None ☐Melted

Packing Material: ☐Bubble Wrap ☑Bubble Bags ☐None ☐Other:

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)

Shorted Date: **Shorted Time:**

Bottle Quantity / Type:

Chain of Custody:	**Present:** ☑Yes ☐No | **Filled Out:** ☑Yes ☐No ☐N/A | **Relinquished From Pace:** ☐Yes ☐No ☑N/A | **Sampler Name:** ☐Yes ☑No ☐N/A			
	Relinquished To Pace: ☐Yes ☑No ☐N/A | **Sampling Date(s):** ☑Yes ☐No ☐N/A | **Sampling Time(s):** ☑Yes ☐No ☐N/A			
Samples Arrived within Hold Time.	☑Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC.	☐Yes	☐No	☑N/A	Comments:
Sufficient Volume.	☑Yes	☐No	☐N/A	Comments:
Correct Containers Used.	☑Yes	☐No	☐N/A	Comments:
Containers Intact.	☐Yes	☑No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	☑Yes	☐No	☐N/A	Comments:
All containers needing acid / base preservation have been checked.	☐Yes	☐No	☑N/A	**Preservation Information**
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☐Yes	☐No	☑N/A	**Preservative:** **Date:** **Lot / Trace:** **Time:** **Amount added (mL):** **Initials:**
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☑N/A	
Trip Blank Present:	☐Yes	☐No	☑N/A	

Comments / Resolutions (use back for additional comments):

One vial arrived broken in cooler.

(x1) vial Sample ID - 2310221-005D

CHAIN OF CUSTODY RECORD

Omega COCID 22696	PAGE: 1	OF: 6

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SPECIAL INSTRUCTIONS / COMMENTS:

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1	2310221-001A	WS 1		Soil	10/5/2023 8:40:00 AM	1	TOC
	See Attached						
2	2310221-001B	WS 1		Soil	10/5/2023 8:40:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
3	2310221-001C	WS 1		Soil	10/5/2023 8:40:00 AM	1	VOC / 8270
	See Attached						
4	2310221-001D	WS 1		Soil	10/5/2023 8:40:00 AM	1	BTEX / 8260 (8081)
	See Attached						
5	2310221-001E	WS 1		Soil	10/5/2023 8:40:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
6	2310221-002A	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	TOC
	See Attached						
7	2310221-002B	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
8	2310221-002C	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	VOC / 8270
	See Attached						
9	2310221-002D	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	BTEX / 8260 (8081)
	See Attached						

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TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

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10	2310221-002E	WS Soil 2 High		Soil	10/5/2023 9:05:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
11	2310221-003A	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	TOC
	See Attached						
12	2310221-003B	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
13	2310221-003C	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	VOC / 8270
	See Attached						
14	2310221-003D	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	BTEX / 8260 (8081)
	See Attached						
15	2310221-003E	WS Soil 2 Mid		Soil	10/5/2023 9:15:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
16	2310221-004A	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	TOC
	See Attached						
17	2310221-004B	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	Metals: As, Ba, Cd, Cr, Cu, Pb, Se, Ag, Hg TS%
	See Attached						
18	2310221-004C	WS Soil 2 Low		Soil	10/5/2023 9:25:00 AM	1	VOC / 8270
	See Attached						

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	See Attached						
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	See Attached						
26	2310221-006A	WS Soil 3 Mid		Soil	10/5/2023 10:35:00 AM	1	TOC
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35	2310221-007E	WS Soil 3 Low		Soil	10/5/2023 10:45:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
36	2310221-008A	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	TOC
	See Attached						

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PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
37	2310221-008B	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Metals
	See Attached						
38	2310221-008C	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	VOC / 8270
	See Attached						
39	2310221-008D	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	BTEX / 8260 (8081)
	See Attached						
40	2310221-008E	WS Soil 4 High		Soil	10/5/2023 11:30:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						
41	2310221-009A	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	TOC
	See Attached						
42	2310221-009B	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Metals
	See Attached						
43	2310221-009C	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	VOC / 8270
	See Attached						
44	2310221-009D	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	BTEX / 8260 (8081)
	See Attached						
45	2310221-009E	WS Soil 4 Mid		Soil	10/5/2023 11:40:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

CHAIN OF CUSTODY RECORD

Omega COCID 22696	PAGE: 6	OF: 6

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRATOR: **Pace** COMPANY: **Pace Analytical**

ADDRESS: **8 East Tower Circle**

CITY, STATE, ZIP: **Ormond Beach, FL 32174**

PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
46	2310221-010A	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	TOC
	See Attached						
47	2310221-010B	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Metals
	See Attached						
48	2310221-010C	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	VOC / 8270
	See Attached						
49	2310221-010D	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	BTEX / 8260 (8081)
	See Attached						
50	2310221-010E	WS Soil 4 Low		Soil	10/5/2023 11:50:00 AM	1	Hydrocarbons / TRPH by FL PRO
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

PD CONDITIONS COMPLIANCE SUMMARY
Waterside – PD-22-00014
Charlotte County, Florida

Project Overview and PD Framework Compliance

The Waterside project is approved under Planned Development zoning pursuant to PD-22-00014. Phase 1 consists of a restoration-focused development intended to remediate historic agricultural impacts, restore native upland and wetland systems, and establish long-term environmental stewardship consistent with the County's Comprehensive Plan and the approved General PD Concept Plan.

Phase 1 is limited exclusively to restoration and ancillary uses expressly authorized by the PD conditions.

Phase Structure and Authorized Uses (PD Conditions a, b, c)

Phase 1 is implemented entirely within the approved Phase 1 boundary as shown on the civil plans (Sheet 2). Authorized activities include restoration of abandoned citrus groves, establishment of a native plant/tree nursery, soil remediation, excavation for restoration purposes, stockpiling not exceeding 30 feet in height, and accessory uses such as offices, scales, and staging areas.

PD Setbacks and Site Layout (PD Condition e)

A minimum 25-foot Planned Development setback is provided around Phase 1 as shown on the civil plans (Sheet 16). Landscaping and buffers are located immediately adjacent to this setback in compliance with PD requirements.

Landscaping, Buffers, and Berms (PD Conditions f and g)

A Type D buffer with a minimum width of 80 feet is provided and includes an 8-foot landscape berm, native canopy trees, accent trees, and shrubs. The Initial Buffer along the northern boundary is installed prior to excavation and consists of the berm only. Remaining berms are constructed during reclamation. All planting consists exclusively of native species.

Wetland Preservation and Habitat Management (PD Condition h)

On-site wetlands are preserved in place with a minimum 25-foot wetland buffer. Wetlands are classified as Hydric Pine Flatwoods (FLUCCS 625) and are managed in accordance with the approved Native Habitat Management Plan, including exotic species control and long-term maintenance.

Excavation Limits and Best Management Practices (PD Condition i)

Excavation associated with Phase 1 restoration is limited to a maximum depth of 13 feet. Best Management Practices, including dust suppression and erosion control, are implemented throughout construction.

Soils Testing and Environmental Compliance (PD Condition j)

Soil sampling was conducted in the biologically relevant zone (0–6 inches below land surface) in compliance with PD Condition j and FDEP requirements. Analytical testing included pesticides, metals, mercury, and total organic carbon. Results did not indicate the need for additional mitigation.

Permitting, Mitigation, and Operational Controls (PD Conditions k, l, m)

All PD conditions are incorporated into County-issued permits. Mitigation measures addressing noise, odor, and dust are included in the Final Detail Site Plan and operational controls.

Conclusion

Phase 1 of the Waterside project fully complies with all applicable Planned Development conditions set forth in PD-22-00014 and is consistent with the approved PD zoning and restoration objectives.

TMV Inc. – Bermont Road Tract

Parcel / PID / Survey Reconciliation Summary

Location: Bermont Road (State Road 74), Charlotte County, Florida
Owner: TMV Inc.

---

1. Purpose

This memorandum summarizes and reconciles **deed conveyances, Property Appraiser Parcel Identification Numbers (PIDs), acreage, and the boundary survey** for the TMV-owned Bermont Road tract. The intent is to confirm that all parcels are fully conveyed, correctly surveyed, and consistently represented across records.

---

2. Deed Coverage

Instrument: Warranty Deed – OR Book 4410, Page 108 (Instr. #2687142)
Grantor: Highway 17, LLC
Grantee: TMV Inc.

Parcel IDs conveyed by deed: - 402433200001 - 402434100001 - 402434300001

Conclusion: The deed expressly conveys all three TMV parcels. No retained ownership interest remains with Highway 17 / US-17.

---

3. Property Appraiser (Tax Roll) Acreage

PID	Acreage (Tax Roll)
402433200001	160.00 ac
402434100001	123.14 ac
402434300001	10.51 ac
Total	**293.65 ac**

Ownership effective date on the tax roll reflects TMV Inc. as sole owner.

---

4. Survey Information

Survey: Boundary & Topographic Survey – Banks Engineering
Date: February 3, 2021
Description: Parcels labeled **Parcel 1, Parcel 2, and Parcel 3** assembled as a single subject property.

Surveyed Area: 293.31 acres

---

5. Acreage Reconciliation

- **Tax Roll Total:** 293.65 ac
- **Survey Area:** 293.31 ac
- **Difference:** 0.34 ac (≈14,800 sq ft)

Finding: The difference is within normal tolerance and attributable to tax-roll GIS rounding, ROW interpretation, and the survey predating later PID adjustments.

---

6. PID References on Survey

The survey predates TMV ownership and references earlier or surrounding PIDs for mapping context. These PID labels **do not indicate ownership** and do not conflict with the deeded parcels. The surveyed boundaries correctly match the deeded Parcel 1 / 2 / 3 configuration.

---

7. Right-of-Way & Easements (General)

- Southern frontage shown along **State Road 74 (Bermont Road)** with R/W line depicted.
- Survey includes standard disclaimer: **not a title or encumbrance certification** and prepared without abstract of title.
- Easements of record should be confirmed by title commitment and, if needed, plotted by survey addendum.

---

8. Conclusions

- Deeds, survey, and tax roll are **internally consistent**.
- All TMV PIDs are fully conveyed and surveyed.
- No missing parcels, gaps, or retained interests identified.
- Acreage variance is minor and typical.

---

9. Recommendation

For financing, entitlement, or sale diligence, obtain a **title commitment** and request a brief **survey addendum** referencing the current TMV PIDs to supplement the 2021 survey.

Prepared for due-diligence and planning purposes.

PD Conditions for Application PD-22-00014

This proposed development shall be in compliance with all applicable requirements as set forth in Charlotte County's Code of Laws and Ordinances. In addition, the following shall apply:

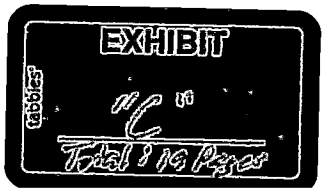
a. The development consists of two phases as shown on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan - Waterside Restoration Overall PD Site Plan), prepared by Southwest Engineering & Design, signed September 14, 2022, and revised January 18, 2023.

b. Permitted activities and uses for Phase I:
   i. A restoration project is allowed within the boundary of Phase I as shown on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan – Waterside Restoration Overall PD Site Plan), with such modifications as may be required to meet the conditions of the PD zoning district. In addition, the conditions/comments indicated in the Site Plan Review (DRC-22-00125) letter dated August 29, 2022, revised September 20, 2022, shall be met. Such General PD Concept Plan shall be valid until a Final Detail Site Plan is approved per Section 3-9-45, PD. Final Detail Site Plan approval is required prior to the commencement of the restoration project and shall be limited to a term of ten (10) years, calculated from the date of Final Detail Site Plan approval.
   ii. An abandoned orange grove to be restored with native trees and understory vegetation.
   iii. A native plant nursery located in the area identified as Nursery/Tree Farm on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan – Waterside Restoration Overall PD Site Plan).
   iv. Removing the old citrus trees and excavating the area to remove soil depleted from decades of agricultural use.
   v. Refilling with mulched vegetation to create compost for replanting native trees.
   vi. Stockpile of excavated materials will be located in the area identified as "Stock Pile" on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan - Waterside Restoration Overall PD Site Plan). The maximum height of the stockpile shall be no more than 30 feet.
   vii. Accessory uses, including but not limited to Office, scale house, and staging and equipment storage area.

c. Permitted activities and uses for Phase II:
   i. Existing mulching operation is part of an approved existing commercial excavation permit (Excavation Permit Number 07-EX-15) located on land owned by the applicant and surrounded by the subject property.

d. A subsequent major modification to this Planned Development (PD) rezoning shall be required in order to implement the "Bermont Road Partnership Master Development Plan" approved via Ordinance Number 2011-021 and as set forth in Future Land Use (FLU) Appendix VIII: Rural Community Mixed Use Master Plan, for the subject property.

e. A 25-foot PD setback is required except for roads and landscaping.



f. Landscaping and buffer shall be located immediately adjacent to the required 25-foot PD setback for Phase I as shown on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan – Waterside Restoration Overall PD Site Plan) subject to any modification required by SWFWMD.
    i. At a minimum, a type D buffer with the minimum width of 80 feet, and containing an eight-foot berm, 13 Canopy Trees, 3 Accent Trees, 85 Shrubs per 100 linear feet shall be required, except for the buffer along the northern boundary line beginning immediately east of the existing reservoir and extending eastward for a distance of 1400 feet which shall be installed within and south of the 25-foot PD setback for Phase I ("Initial Buffer"). The Initial Buffer shall be installed prior to the start of any excavation activities for this restoration project and shall consist of the berm only. The remaining berms within Phase I shall be constructed during reclamation of the excavation area. All berms shall be covered with sod during the reclamation process. Landscaping shall be placed on all berms during residential development of Phase I.
    ii. All planting shall be native species.
g. There are existing berms within Phase II as shown on the proposed General PD Concept Plan (Attachment 1: General PD Concept Plan – Waterside Restoration Overall PD Site Plan).
h. The area designated as "Wetland" within Phase I on the General PD Concept Plan shall be preserved per Native Habitat Management Plan (Attachment 2: Native Habitat Management Plan and Wetland Classification). At a minimum, a 25-foot buffer is required along the wetland.
i. The depth of excavation activities associated with the restoration project shall be no more than 13 feet and Best Management Practices shall be required, such as regularly watering to minimize dust during activities.
j. Prior to submitting for Final Detail Site Plan approval, the applicant shall test the soils in Phase 1 utilizing the following Agricultural Field Sampling and Screening Level Ecological Risk Assessment methodology and shall complete any required mitigation pursuant to FDEP rules and regulations. Sampling results and mitigation plans, if required, shall be submitted to Charlotte County as part of any application for Final Detail Site Plan Approval, and be accompanied by a verification statement signed and sealed by a licensed professional engineer that the sampling was completed in accordance with the conditions set forth below

Agricultural Field Sampling and Screening Level Ecological Risk Assessment

i. Sample Collection

Soil samples will be collected using a stainless steel spoon or hand auger from 0 – 6 inches below land surface. This interval represents the biologically relevant depth for interaction with surface water and biological receptors. It is important that care is taken not to include sample material from more than 6 inches deep, as this may result in dilution and underestimation of contaminant concentrations. Between samples, sampling equipment should be decontaminated using standard procedures to prevent cross-contamination between samples. (Decontamination between subsamples (see below) will not be necessary because subsamples will be mixed together to form a composite.) Immediately following collection, samples should be placed on ice and submitted as soon as possible to the laboratory for analysis.

At all properties except citrus groves, discrete soil sample and subsamples for compositing (see below) should be composed of five aliquots of equal volumes collected from the center point located at the nominal sampling location, and from four additional points located 5 feet from the center point in each of the cardinal directions. The sample should be thoroughly homogenized in a stainless stee mixing bowl. These "close proximity composite samples" are intended to reduce the effects of small scale soil heterogeneity.

At properties used for citrus farming, discrete soil samples should be composed of three equal volume subsamples; one subsample from (1) the drip line of the tree nearest to the nominal sampling point; (2) the nearest drainage swale to the tree; and (3) the nearest crown of the road between rows of the trees. The sample is, therefore, expected to be representative of the average concentration of the areas most likely to be affected b the application of agricultural chemicals used in citrus faming. The sample should be thoroughly homogenized in a stainless steel mixing bowl.

Before being placed in the sample jar, all soil samples (discrete and composites) should be thoroughly homogenized until they appear completely uniform in texture and color. Analytical laboratories should be instructed that samples received from the filed should be thoroughly homogenized again in the jar before an aliquot is removed for extraction.

ii. Analytical Parameters

If is has been determined during the Phase I/II that a property has a history of agricultural activity prior to 1985, then each soil analysis should include, at a minimum, organochlorine pesticides (EPA Method 8081), metals (including mercury and copper), and total organic carbon (TOC). If the history of the property or more recent use suggests that other contaminants may be present, then the list of analytes should be expanded as appropriate. The best available detection limits should be requested of the analytical laboratory, but at a minimum, detection limits (practical quantitation limits) for each chemical should be as low as the corresponding screening value. That is not possible in all cases; however, since some screening benchmarks are lower than quantitation limits defined by the Florida Department of Environmental Protection. As a general rule, TOC analysis should be done for all soil and sediment samples.

iii. Discrete Sampling for Small Properties (<500 acres)

Discrete sampling will be required for agricultural areas less than 500 acres in size. Discrete sample sites should be established at regular intervals across the property, at a density of at least one sample per 10 – 20 acres. The actual sampling density will depend on the size of the property, analytical cost per sample, likelihood of contaminants, and other factors, and will be specified in the proposed sapling plan and agreed to by consensus between the SWFWMD and FWS. A minimum of 10 samples will be necessary for most properties. Some exceptions to this minimum sample size will occur where parcels are small (<100 acres) or demonstrate a combination of land uses (i.e., residential "ranchettes," small scale livestock/garden/nursery properties, rock mining pits, etc.) where only a small percentage of the overall area was cultivated. Careful consideration should be given prior to using a sample size smaller than 10. As sample size decreases, statistical variation tends to increase, thereby increasing the size of confidence intervals used to determine the 95 percent UCL of the mean for any given

analyte. Higher UCL values may increase the probability that samples will exceed ecological screening values, thereby necessitating expanded sampling, risk assessment, and subsequent clean up.

k. Each PD condition described herein shall become a condition of any county-issued excavation permit.

l. If excavated material is to be removed from the excavation site, required permits shall each include a condition that the operation must comply with sections 3-5-482 (which relates to performance assurance for land reclamation), 3-5-490 (which relates to earthmoving permit inspections), and, 3-5-491 (which relates to a specific earthmoving permit annual report).

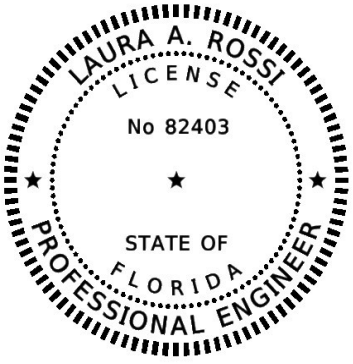
m. Final Detail Site Plan approval shall be conditioned on such plan including a mitigation plan to reduce sound, odor and dust.

Traffic Impact Statement
for
Waterside Excavation Modification

Punta Gorda, FL

Prepared For:
Southwest Engineering and Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
941-637-9655 Ph
941-637-1149 Fx

Prepared By:
Protean Design Group, Inc.
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Punta Gorda, FL 33950
o: 941.676.8448



This item has been digitally signed and sealed by:

On the date adjacent to the seal

Signature must be verified on any electronic copies

Protean Design Group, Inc.
201 West Marion Avenue, Suite 1201
Punta Gorda, FL 33950
Laura A. Rossi, P.E. NO. 82403

protean DESIGN GROUP

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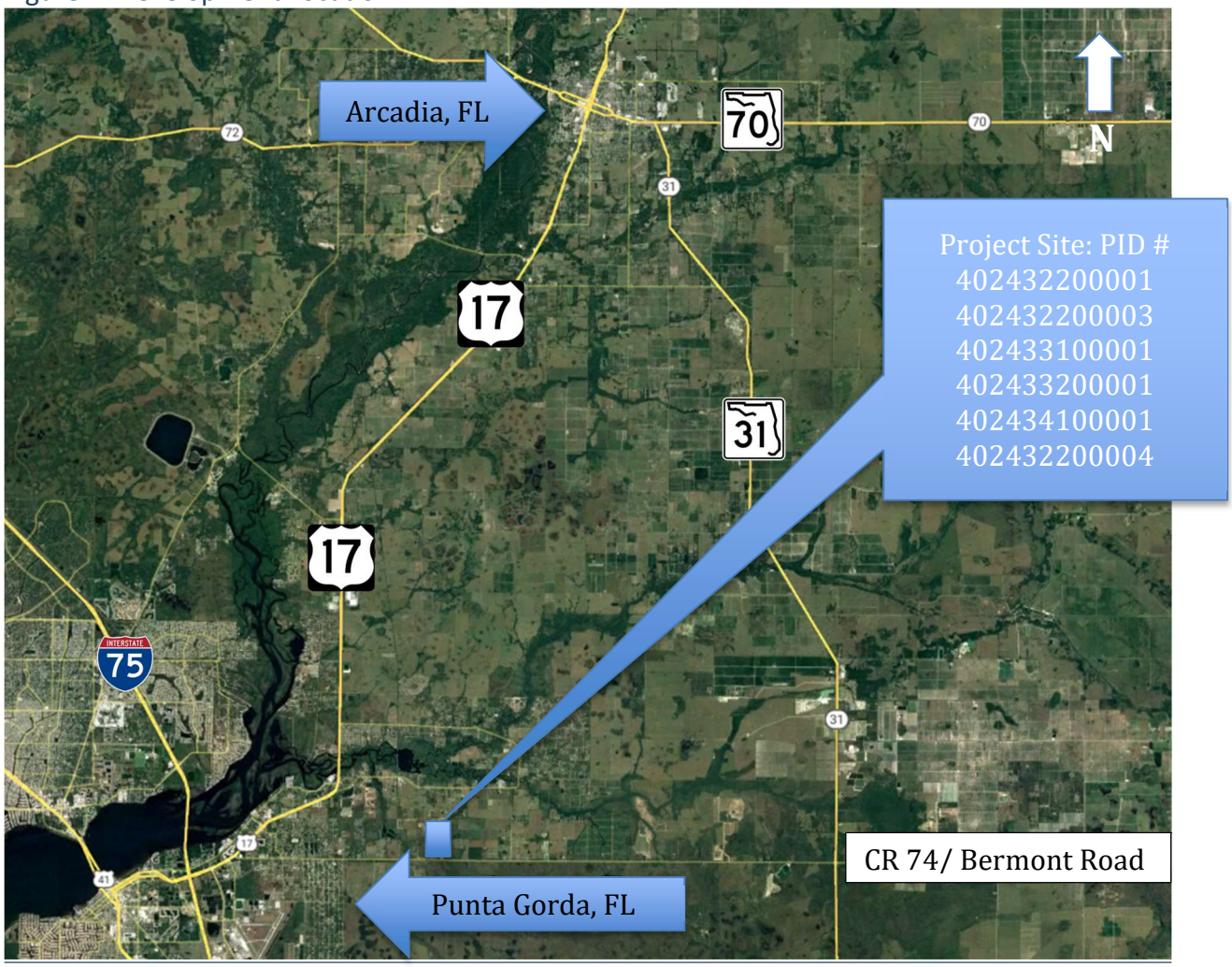
Appendix C- Email Communication with Southwest Engineering and Design

Overview

This Traffic Impact Statement (TIS) has been prepared to evaluate the transportation impacts associated with Phase 1 of the Waterside Community Planned Development (PD), a Rural Community Mixed Use subdivision located at 32030 Bermont Road (CR 74), Punta Gorda, Florida (PID #402432200001, 402432200003, 402433100001, 402433200001, 402434100001, 402432200004).

Phase 1 consists of approximately 283.75 acres and represents the initiation of the excavation and restoration component of the overall Waterside Community development. The excavation and restoration activities will occur concurrently. This Traffic Impact Statement evaluates the temporary and operational traffic impacts generated by these activities on the surrounding roadway network.

Figure 1: Development Location



1. Project Description

Phase 1 of the restoration project includes the following primary activities

- Clearing of approximately 240 acres of abandoned citrus grove.
- Excavation and restoration of approximately 63.37 acres to a depth of approximately 13 feet.
- Backfilling of the excavated area to existing grade ± 2 feet using clean fill or clean debris in accordance with Florida Department of Environmental Protection (FDEP) requirements.
- Designation of the restored area as Green/Open Space, to be replanted with native vegetative communities including Oak Hammocks, Pine Flatwoods, and Cypress Heads (per approved Landscape Plan).
- Construction of 8- to 10-foot-high perimeter landscape berms.
- Possible installation of approximately 25 acres of sod for berm stabilization.
- Establishment of a 40-acre tree nursery to support replanting efforts and provide supplemental project revenue.

2. Existing Property Condition

The existing property currently contains pine flatwoods, abandoned citrus groves, agricultural ditches, dirt roads, an existing reservoir, and wetlands that are not anticipated to be impacted, as illustrated in Figure 2. The site is located approximately 5.3 miles east of the intersection of S.R. 35 / U.S. 17 and Bermont Road (CR-74).

The Phase 1 excavation and restoration area is directly adjacent to an existing excavation (07-EX-15) that has previously been modified to continue operations while Phase 1 begins construction. This Traffic Impact Statement (TIS) modifies the Phase 1 previously approved excavation and restoration areas and volumes.

The existing excavation outside of Phase 1 was permitted under Charlotte County LD-Excavation Type III Permit No. 07-EX-15 to excavate 72.98 acres, resulting in a total of 3,227,259 cubic yards (CY) of fill material. That excavation remains operational and no changes are proposed within this TIS.

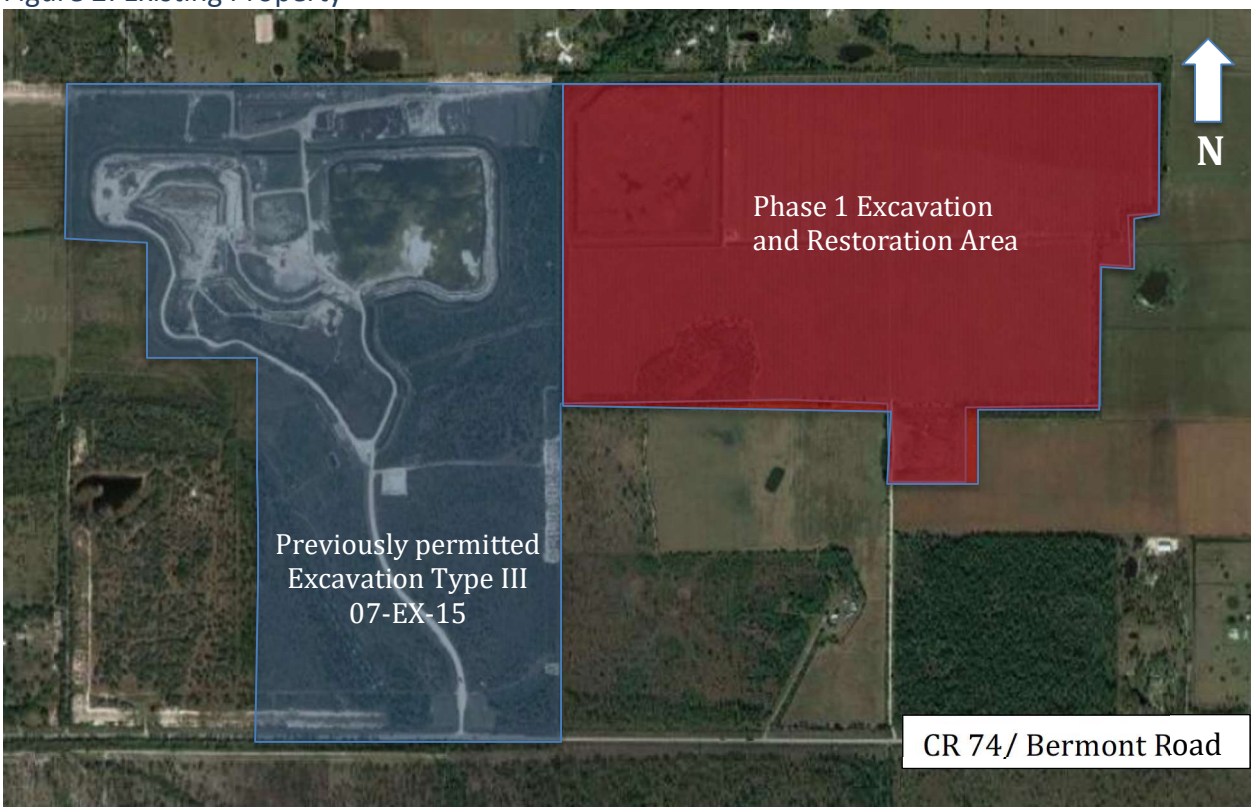
Phase 1 was previously evaluated in a TIS assuming excavation of 63.37 acres and removal of 2,767,655.65 CY of fill dirt, topsoil, and shell. This updated TIS replaces those previously approved Phase 1 excavation and restoration volumes. Under the revised plan, Phase 1 will now excavate approximately 1,146,402 cubic yards of material.

To restore the excavated area, approximately 1,604,988 cubic yards of yard waste will be imported and placed within the excavation footprint. This volume reflects the application of a 1.4 conversion factor to

account for material compaction and settlement vs actual hauled volume (1,146,402 CY × 1.4 = 1,604,988 CY).

These revised Phase 1 excavation and restoration volumes form the basis for the updated trip generation and Level of Service analysis contained herein.

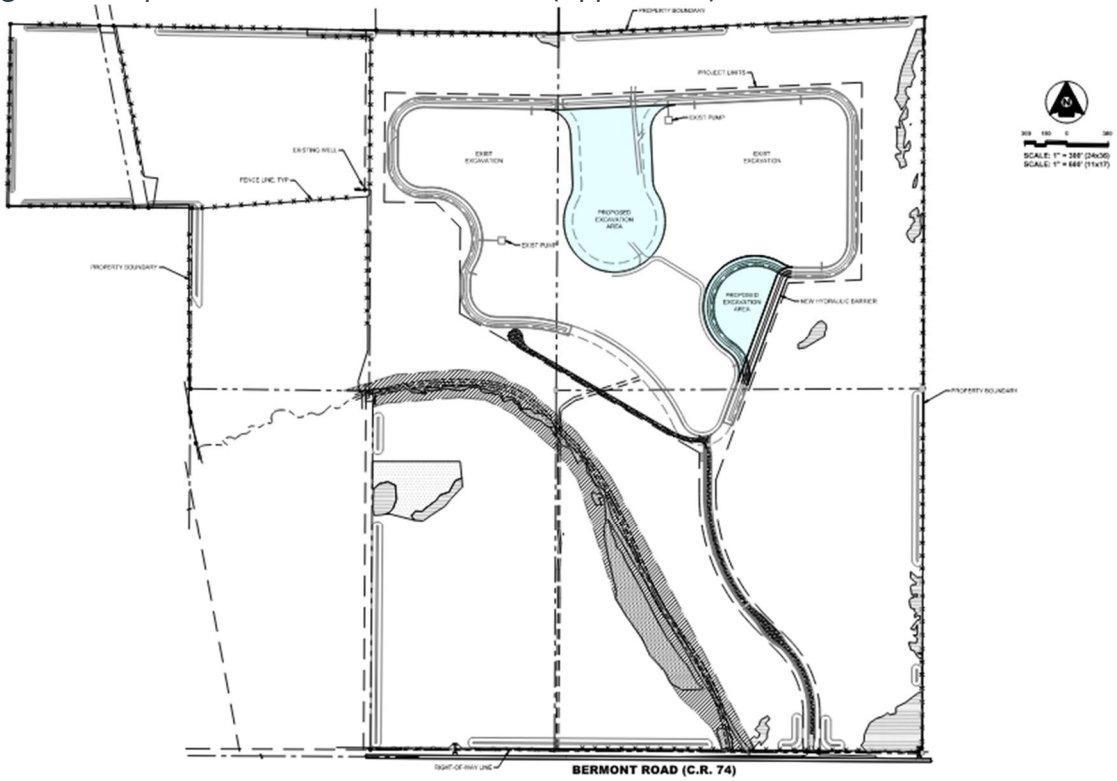
Figure 2: Existing Property



3. Proposed Property Condition

The proposed condition will include both the modification to the Phase 1 excavation and restoration project considering operation at the same time as the existing excavation (07-EX-15). As previously stated, this updated TIS replaces previously approved Phase 1 excavation volumes. Under the revised plan, Phase 1 will now involve excavation of approximately 1,146,402 cubic yards of material. To restore the excavated area, approximately 1,604,988 cubic yards of yard waste will be imported and placed within the excavation footprint. This volume reflects the application of a 1.4 conversion factor to account for material compaction and settlement vs actual hauled volume (1,146,402 CY × 1.4 = 1,604,988 CY). The existing haul road will continue to service the excavation and restoration and the existing driveway along CR-74/ Bermont Road will remain.

Figure 3: Proposed Excavation Modification (Appendix A)



4. Existing Roadway Condition

Bermont Road (CR 74) is a rural undivided arterial roadway serving agricultural, rural residential, and limited commercial uses east of U.S. 17 (S.R. 35). The roadway generally consists of two travel lanes with paved shoulders and accommodates a mix of passenger vehicles, agricultural equipment, and heavy trucks.

The surrounding area is characterized by low-density rural development, with traffic volumes primarily influenced by agricultural operations and through-traffic traveling between Punta Gorda and inland communities. The speed limit on CR-74/ Bermont Road is posted 55 mph and has an annual truck percentage of 32.1%. Cr-74/ Bermont Road has a Context Classification of C3R between US 17 and Happy Hollow Road and C2 east of Happy Hollow Road (CR-74/ Bermont Road Historical AADT and Charlotte County 2025 Roadway Level of Service Data, Appendix B).

5. Projected Traffic Characteristics

Traffic associated with Phase 1 will primarily consist of:

- Construction personnel vehicles
- Heavy truck traffic associated with clearing and excavation
- Dump trucks delivering clean fill or removing materials
- Equipment delivery vehicles
- Yard debris hauling trucks

- Occasional nursery-related delivery vehicles

The excavation and backfilling operations will run concurrently. Truck traffic will fluctuate based on the stage of excavation, depth achieved, and rate of backfill placement. Operational traffic associated with composting, mulch processing, and nursery activities will be moderate and consistent with agricultural operations in rural Charlotte County. Employee and delivery vehicle volumes are not directly considered since they are insignificant volumes in relation to the trucks servicing the material on site.

6. Trip Generation

Existing

Trucks are allowed to arrive and leave between 7 AM and 3:30 PM, Monday through Friday. Due to the nature of the site, trips generated are directly related to the estimated volume of material being serviced by the excavation and existing landscape berms. As previously stated, during times of hurricanes material volumes can significantly increase during hurricane clean up phases but it is important to note that the existing volumes of materials serviced include three hurricanes (Ian (2022), Helene/ Milton (2024)). Note all material volumes were provided by Southwest Engineering and Design (Appendix C).

Existing Materials Volumes Serviced by Property from 2021 to 2025

Cubic Yards of Material per year

YEAR	2021	2022	2023	2024	2025
Land Debris brought on site (CY) by 33.5 CY trucks	334,524	297,303	233,070	206,343	89,201
Mulch brought on site (CY) by 33.5 CY trucks		98,512	538,277	39,027	29,235
Fill Dirt leaving (CY) by 16 CY trucks			28,400	61,581	265,131
Rock leaving (CY) by 16 CY trucks	6,820				
	341,344	395,815	799,747	306,951	383,567

Calculation 1: Existing Average Trucks Volumes

Trucks of Material per year

YEAR	2021	2022	2023	2024	2025
Land Debris Trucks Entering	9,986	8,875	6,957	6,159	2,663
Mulch Trucks Entering	-	2,941	16,068	1,165	873
Fill Dirt trucks Leaving			1,775	3,849	16,571
Rock trucks Leaving	426				
	10,412	11,815	24,800	11,173	20,106
Average trucks per hour per year entering:	5	5	11	5	9
Average trucks per hour per year leaving:	5	5	11	5	9
Average trucks Entering and Leaving per hour per year:	9	11	22	10	18

14 trucks entering/ leaving per hour

Note that there is an average of 14 trucks entering and leaving per hour per weekday calculated over the last 5 years. This average does not encompass large fluctuations in truck volume during the day and assumes an evenly distribution of trucks. To simulate busier existing operational time frames the existing average trucks leaving and entering the property is multiplied by 2, for a worst-case scenario analysis, with 28 trucks leaving and entering the property within an hour.

Proposed

Under the revised plan, Phase 1 will now involve excavation of approximately 1,146,402 cubic yards of shell/ topsoil, rock with 16 cubic yard trucks. To restore the excavated area, approximately 1,604,988 cubic yards of yard waste will be brought in with 33.5 cubic yard (CY) trucks and placed within the excavation footprint. This volume reflects the application of a 1.4 conversion factor to account for material compaction and settlement vs actual hauled volume (1,146,402 CY × 1.4 = 1,604,988 CY). These proposed volume numbers were provided by Southwest Engineering and Design (Appendix C).

Calculation 2: Proposed Excavation Trucks Volumes

Excavation:

Volume of Material to be removed: 1,146,402 cubic yards
Permitted Life Span of Excavation: 10 years

Trips per work day Leaving (Monday through Friday):

$$28 \text{ Trucks/ work day} = \frac{1{,}146{,}402 \text{ CY}}{10 \text{ YR}} * \frac{1 \text{ Truck}}{16 \text{ CY}} * \frac{1 \text{ YR}}{52.18 \text{ weeks}} * \frac{1 \text{ week}}{42.5 \text{ work hours}} * \frac{8.5 \text{ work hours}}{\text{(Monday through Friday)}}$$

$$\text{Weekday Trips per hour leaving} = \frac{28 \text{ Trucks}}{\text{work day}} * \frac{1 \text{ work day}}{8.5 \text{ hours}} = 4 \text{ trucks leaving/ hour}$$

8 trucks entering and leaving/ hour for the excavation

Calculation 3: Proposed Yard Waste/ Mulch Trucks Volumes

Yard Waste/ Mulch:

Volume of Material to be brought in: 1,604,988 cubic yards
Permitted Life Span of Excavation: 10 years

Trips per work day Leaving (Monday through Friday):

$$19 \text{ Trucks/ work day} = \frac{1{,}604{,}988 \text{ CY}}{10 \text{ YR}} * \frac{1 \text{ Truck}}{33.5 \text{ CY}} * \frac{1 \text{ YR}}{52.18 \text{ weeks}} * \frac{1 \text{ week}}{42.5 \text{ work hours}} * \frac{8.5 \text{ work hours}}{\text{(Monday through Friday)}}$$

$$\text{Weekday Trips per hour leaving} = \frac{19 \text{ Trucks}}{\text{work day}} * \frac{1 \text{ work day}}{8.5 \text{ hours}} = 3 \text{ trucks leaving/ hour}$$

6 trucks entering and leaving/ hour for the yard waste/ mulch

Based on the updated excavation and restoration volumes, the calculated average haul rate equates to approximately 7 trucks entering (4 trucks leaving per hour for the excavation and 3 trucks leaving for the reclamation which is yard waste/ mulch) and 7 trucks leaving the site per hour during active operations. These trips represent both excavation export activity and yard waste import activity associated with restoration.

To ensure a conservative evaluation of transportation impacts, a worst-case scenario analysis was performed. Under this approach, the calculated average haul rate is multiplied by a factor of two to account for potential short-term surges in truck activity, seasonal fluctuations, or periods of concentrated hauling operations.

Applying this conservative multiplier results in:

- 14 trucks entering per hour
- 14 trucks leaving per hour

28 total two-way peak-hour truck trips

This worst-case volume of 28 two-way peak-hour truck trips was utilized in the Future (Build) roadway Level of Service analysis to evaluate potential impacts to Bermont Road (CR-74) and the surrounding transportation network.

7. Temporary Construction Traffic Impacts

This construction period will be analyzed over a 10-year time frame where construction activities related to the excavation and restoration activities will generate temporary increases in heavy truck traffic along CR-74/ Bermont Road. These impacts will be limited in duration and associated solely with the restoration phase. Note that during times of hurricanes these volumes can significantly increase during hurricane clean up phases.

Key considerations include:

- Heavy truck ingress/egress at the haul road connection
- Potential short-term peak hour truck platooning
- Interaction with existing agricultural traffic

All trucks will access the site via CR-74/ Bermont Road and utilize the established haul route. No residential streets will be used for construction access.

8. Long-term Traffic Impacts

Upon completion of Phase 1 restoration, the primary land use will consist of:

- Green/Open Space
- Landscape berms
- Tree nursery

These uses generate minimal daily trip activity compared to future residential or mixed-use development phases. The restoration phase does not include residential units or commercial buildings; therefore, long-term traffic impacts are expected to be low.

The nursery operations will generate periodic delivery and service trips but will function similarly to agricultural operations typical of the area.

9. Adjacent Roadway Level of Service

This study analyses the traffic impact to the surrounding roadways during the excavation and restoration where a level of service analysis has been completed for Bermont Road / CR-74 for the opening year of 2026 and a 10 year build out of 2036. Since the existing traffic is already considered within the traffic volumes on Bermont Road the proposed 28 total two-way peak-hour truck trips will be analyzed as the maximum total number of external trips being added to Bermont Road / CR-74 equals 24 peak two-way trips.

A total of **28 two-way peak-hour truck trips** were analyzed and converted to **37 two-way peak- hour passenger car trips equivalents (PCEs)** for capacity evaluation.

To account for the operational impact of trucks on traffic flow, a conversion factor of **1.3 passenger cars per truck** was applied. This factor represents the inverse of the Highway Capacity Manual (HCM) mixed-flow heavy vehicle adjustment factor for a basic freeway segment (see HCM Chapter 26, Equations 26-2 and 26-5).

The Charlotte County 2025 Roadway Level of Service Data recognizes Bermont Road as a C3R – Suburban Residential/ C2 - Rural corridor with an adopted target Level of Service (LOS) of D. The FDOT District One 2022 LOS Spreadsheet for Charlotte County and the Charlotte County Roadway Concurrency for 2025 lists the peak hour two-way volume/ LOS target for C3R and C2 corridors as 1,616 vehicle per hour (vph) and 1,330 vph. Table 1 shows the peak hour volume and percent capacity used during the build out year of 2036, with a 5% annual growth rate over the next 10 years.

Table 1 identifies the percent capacity used for Bermont Road / CR-74 during the build out year of 2036, including the 5.0% annual growth rate if 28 vph are added to the existing traffic along Bermont Road / CR-74 during the peak hour due to the operation of the restoration and excavation concurrently with the current operational volumes, the resultant peak hour volume is shown in Table 1.

Table 1 and 2: No-Build vs. Build LOS CR-74/ Bermont Road/ CR-74 Analysis

Bermont Road/ CR-74 from U.S. 17 to Happy Hollow Rd (45 MPH)				
Analysis Year	*Peak Hour Two-way Volume (vph) (100th Hourly Volume)*	*Trips added from Excavation and Restoration (vph)*	*LOS Limit (Pk. Hr. Two-way Vol.)**	Percent Capacity Used
2026 No-Build*	721	0	1,616**	44.6%
2036 No-Build* (w/ 5% annual growth rate)	1,174	0		72.6%
2036 Build	1,211	37		75%

Bermont Road/ CR-74 from Happy Hollow Rd to S.R. 31 (55 MPH)				
Analysis Year	*Peak Hour Two-way Volume (vph) (100th Hourly Volume)*	*Trips added from Excavation and Restoration (vph)*	*LOS Limit (Pk. Hr. Two-way Vol.)**	Percent Capacity Used
2026 No-Build*	394	0	1,330**	29.6%
2036 No-Build* (w/ 5% annual growth rate)	642	0		48.3%
2036 Build	679	37		51.1%

* 5% annual growth rate was applied to the 2025 Peak Hourly Volume for a build out year of 2026.

** The FDOT District One 2022 LOS Spreadsheet for Charlotte County lists the peak hour two-way volume/ LOS target for C3R corridors as 1,616 (2,020 vph with a 0.80 adjustment factor for a two lane undivided

roadway without exclusive left turn lanes, 2023 Multimodal Quality/Level of Service Handbook), and C2 1,330 vph.

The analysis concluded that Bermont Road / CR-74 would result in 25% to 48.9% available capacity during the construction of the excavation and restoration and would not change the existing Level of Service of Bermont Road / CR-74.

10. Turn Lane Analysis

The existing driveway connection along Bermont Road (CR-74) will continue to serve both the excavation and restoration operations. The existing access configuration includes:

- A westbound **420-foot-long right-turn lane** , and
- An eastbound **400-foot-long left-turn lane** .

(See Figure 4.)

Bermont Road is posted at **55 mph** in the vicinity of the site. In accordance with the **FDOT Design Manual (FDM) Exhibit 212-1** , the total required deceleration length for a left-turn lane on a 55-mph facility is **350 feet**, exclusive of queue storage. The existing left-turn lane provides 400 feet of total length, which meets the required deceleration length and includes approximately **50 feet of queue storage** , thereby satisfying FDOT design criteria.

Similarly, the existing right-turn lane provides 420 feet of total length. Based on FDM Exhibit 212-1, the required deceleration length for a 55-mph facility is 350 feet. Therefore, the existing right-turn lane **exceeds the required deceleration distance by approximately 70 feet** , providing additional operational buffer and storage capacity.

Given the projected peak-hour truck volumes associated with the excavation and restoration operations, the existing turn lane's deceleration length is adequate for the roadway's posted speed and no modifications are required.

Figure 4: Existing Turn Lanes at the entrance



11. Conclusion

It has been concluded that the additional trips generated by the proposed excavation and restoration will not be significant enough to affect the LOS of Bermont Road / CR-74. In addition, the existing exclusive eastbound left-turn lane and exclusive westbound right-turn lane at the excavation's entrance meet all applicable design requirements and therefore do not require any modifications.

Appendix A- Site Plan

DEVELOPMENT PLANS
FOR
WATERSIDE RESTORATION

SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST
CHARLOTTE COUNTY, FLORIDA

SUMMARY:

PROPOSED IS THE WATERSIDE RESTORATION. THE PROPERTY CONTAINS 293.31AC WITH A PROJECT LIMITS OF 281.25AC. THREE CELLS WILL BE EXCAVATED AND THEN BACKFILLED OVER A 10 YEAR PERIOD.

ZONING:

SUBJECT PROPERTY AGRICULTURE ESTATES (AE)
CONSTRUCTION LIMITS EXCAVATION & MINING (EM)

OWNER:

TOM FLOOD (OWNER)
BERMONT ROAD PARTNERSHIP
1100 5TH AVENUE
NAPLES, FL 34102
PHONE: 416-967-9146

ENGINEER:

SOUTHWEST ENGINEERING & DESIGN, INC.
25450 AIRPORT ROAD, SUITE B
PUNTA GORDA, FLORIDA 33950
PHONE: 941-637-9655

SURVEYOR:

BANKS ENGINEERING.
4161 TAMIAMI TRAIL-BLDG5, UNIT 501
PORT CHARLOTTE, FLORIDA. 33952
PHONE: (941) 625-1149

ENVIRONMENTAL:

SOUTHWEST ENGINEERING & DESIGN, INC.
25450 AIRPORT ROAD, SUITE B
PUNTA GORDA, FLORIDA 33950
PHONE: 941-637-9655

CONTRACTOR:

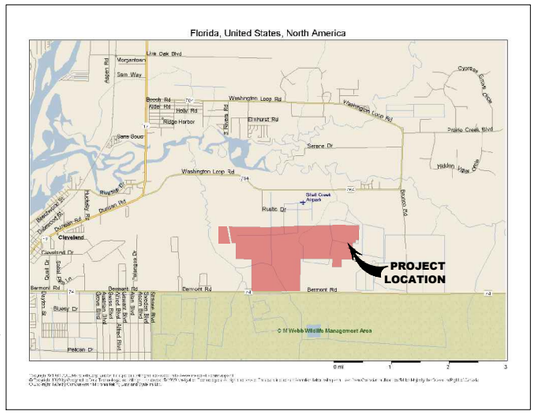
ENVIRONMENTAL UNDERGROUND
BOX 510206
PUNTA GORDA, FL 33951
PHONE: (941) 575-9700

Always call 811 two full business days before you dig

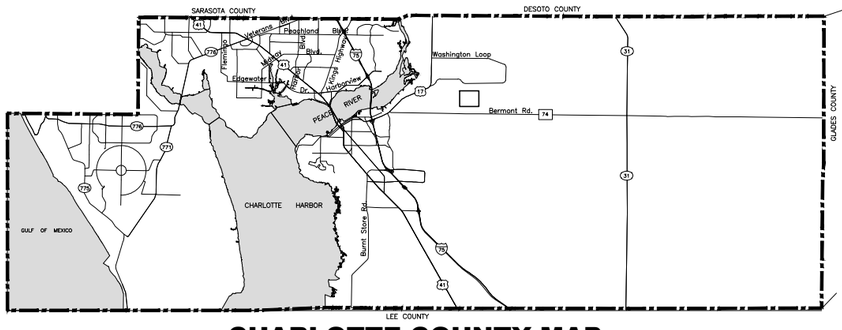
Sunshine811.com

UTILITY NOTIFICATION

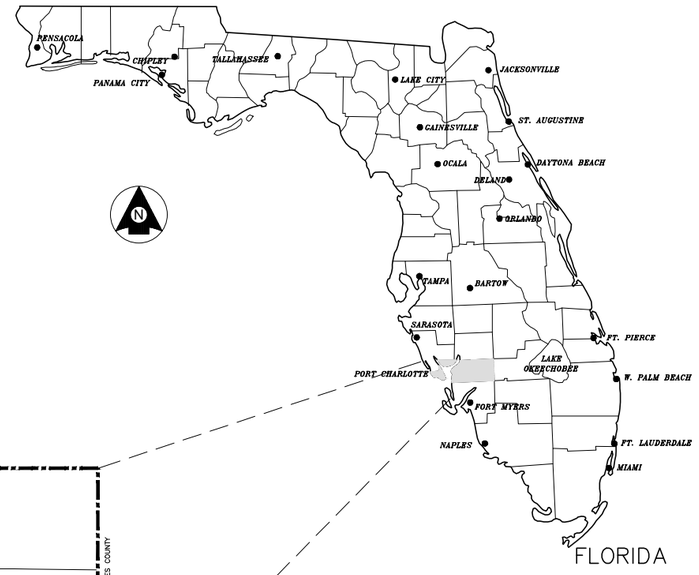
UTILITY LOCATIONS DEPICTED WITHIN THIS CONSTRUCTION PLAN SET HAVE BEEN COMPILED FROM FIELD SURVEYS AND DOCUMENTS SUPPLIED BY THE VARIOUS UTILITY COMPANIES. THE ENGINEER MAKES NO CLAIM TO THE ACCURACY OF THE UTILITY LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AND IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND FIELD LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ACTUAL UTILITY LOCATIONS AND DEPTHS MAY VARY FROM THOSE DEPICTED WITHIN THIS CONSTRUCTION PLAN SET. PROTECTION OF ALL UTILITIES WITHIN THE AREA OF CONSTRUCTION AND ALL COSTS TO REMEDY DAMAGES TO EXISTING UTILITIES AND DISTURBED AREAS SHALL BE BORNE BY THE CONTRACTOR.



VICINITY MAP



CHARLOTTE COUNTY MAP



DESCRIPTION: (AS PROVIDED)

PARCEL 1:
THAT PART OF THE WEST ½ OF THE SOUTHEAST ¼ OF THE NORTHEAST ¼ OF SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, LYING WEST OF MYRTLE CREEK, CHARLOTTE COUNTY, FLORIDA.
PARCEL 2:
SOUTHWEST ¼ OF THE NORTHEAST ¼ AND NORTHWEST ¼ OF THE SOUTHEAST ¼ OF SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA.
PARCEL 3:
WEST 25 FEET OF THE EAST 125 FEET OF THE NORTHEAST ¼ OF THE NORTHWEST ¼ AND THE NORTH 25 FEET OF THE EAST 125 FEET OF THE SOUTHEAST ¼ OF THE NORTHWEST ¼ OF SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA. LESS AND EXCEPT ANY PORTION THEREOF CONTAINED IN THE ORDER OF TAKING AND FINAL JUDGMENT RECORDED IN O.R. BOOK 247, PAGE 655 AND O.R. BOOK 265, PAGE 686, PUBLIC RECORDS OF CHARLOTTE COUNTY, FLORIDA

TOGETHER WITH:
PARCEL A
A PARCEL OR TRACT OF LAND LYING IN SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA; THENCE RUN S01°06'39"E ALONG THE WEST LINE OF SAID NORTHEAST QUARTER FOR 6.86 FEET TO THE SOUTH RIGHT-OF-WAY FOR WASHINGTON LOOP ROAD; THENCE RUN N88°57'31"E ALONG SAID SOUTH RIGHT-OF-WAY FOR 60.04 FEET TO THE POINT OF BEGINNING; THENCE RUN S01°06'39"W FOR 1331.16 FEET; THENCE RUN S89°44'19"E FOR 50.01 FEET; THENCE RUN N01°06'39"E FOR 1332.30 FEET; THENCE RUN S88°57'31"W FOR 50.04 FEET TO THE POINT OF BEGINNING.
CONTAINING 1.53 ACRES, MORE OR LESS.

LESS AND EXCEPT:
PARCEL B
A PARCEL OR TRACT OF LAND LYING IN SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 40 SOUTH, RANGE 24 EAST, CHARLOTTE COUNTY, FLORIDA; THENCE RUN S01°06'39"E ALONG THE WEST LINE OF SAID NORTHEAST QUARTER FOR 6.86 FEET TO THE SOUTH RIGHT-OF-WAY FOR WASHINGTON LOOP ROAD; THENCE RUN N88°57'31"E ALONG SAID RIGHT-OF-WAY FOR 60.04 FEET; THENCE RUN S01°06'39"W FOR 1331.16 FEET; THENCE RUN S89°44'19"E FOR 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S89°44'19"E FOR 1098.90 FEET; THENCE RUN S11°33'07"W FOR 62.31 FEET; THENCE RUN N89°44'19"W FOR 1086.70 FEET; THENCE RUN N00°15'41"E FOR 61.10 FEET TO THE POINT OF BEGINNING.
CONTAINING 1.53 ACRES, MORE OR LESS.

SHEET INDEX

1 . . . . . COVER SHEET
2 . . . . . AERIAL MAP - 2020
3 . . . . . EXISTING CONDITIONS/DEMOLITION PLAN
4 . . . . . OVERALL PHASING EXCAVATION PLAN
5 . . . . . OVERALL DEWATERING PLAN
6 . . . . . CELL 1 EXCAVATION PLAN
7 . . . . . CELL 2 EXCAVATION PLAN
8 . . . . . CELL 3 EXCAVATION PLAN
9-13 . . . . . EXCAVATION CROSS SECTIONS
14 . . . . . RECLAMATION PLAN PHASE 1
15 . . . . . RECLAMATION PLAN PHASE 2
16 . . . . . RESTORATION PLAN
17-21 . . . . . RESTORATION CROSS SECTIONS
22-23 . . . . . BEST MANAGEMENT PRACTICES
24 . . . . . PRE FLUCCS MAP
25 . . . . . POST FLUCCS MAP

NOTES:

1) ALL EASEMENTS, PER RECORD PLAT, ARE SHOWN.
2) SLOPE EASEMENTS, IF REQUIRED, WILL BE OBTAINED BY THE OWNER.
3) ELEVATIONS SHOWN ARE BASED ON NAVD, 88 (NGVD 29 DATUM - 1.13 = NAVD 88 DATUM)
4) OFF SITE DRAINAGE WILL BE ACCOMMODATED ON THIS SITE.
5) CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES.
6) ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH O.S.H.A SAFETY STANDARDS, INCLUDING O.S.H.A. TRENCH SAFETY STANDARDS.
7) CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY ERRORS OR DISCREPANCIES ON THE PLANS PRIOR TO CONSTRUCTION.
8) MAINTENANCE OF TRAFFIC THROUGH WORK ZONES WILL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
9) SIGNAGE AND PAINT MARKINGS WILL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, DCA ACCESSIBILITY REQUIREMENTS AND THE LATEST ADA REQUIREMENTS.
10) HANDICAP ACCESS TO MEET LATEST ADA REQUIREMENTS.
11) A) TOTAL PROJECT AREA = 281.25 ACRES
B) TOTAL PROPERTY BOUNDARY = 293.31 ACRES
C) THERE ARE NO WETLANDS LOCATED WITHIN THE PROJECT BOUNDARY
D) FLOOD ZONE "X" PANEL NO. 0258G & 0259G, COMMUNITY MAP NO, 12015C, DATED DECEMBER 14, 2022

HOURS OF OPERATION NOTE:

EXCAVATION HOURS OF OPERATION SHALL BE 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY, 7:00 A.M. TO NOON ON SATURDAY.

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

PLANS PREPARED BY:

SED Southwest Engineering & Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
www.sedfl.com
Certificate of Authorization No. 26551

JOB NUMBER : 13-0191.04



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25450 Airport Road, Suite B
Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
www.sedfl.com
Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

WATERSIDE RESTORATION
AERIAL MAP - 2020

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

Gary W. Bayne, P.E
State of Florida, Professional Engineer
License No. 62474
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DATE:	OCT 2025
DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	2

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PERMIT LIMITS

PIPE S-3>S-2

PIPE S-4>S-3

AGRICULTURAL DITCH - 5 1.67 ACRES

PROPERTY LINE

PROJECT LIMITS PERMIT LIMITS

EXISTING FARM ROAD

EXISTING AGRICULTURAL DITCH

AGRICULTURAL DITCH - 3 1.38 ACRES

PLUG EXISTING DROP STRUCTURES

EXISTING PUMP TO RESERVOIR

EXISTING BUILDING

EXISTING POND

SEE BELOW

SEE BELOW

PROJECT LIMITS PERMIT LIMITS

EXISTING PUMP TO RESERVOIR

PIPE S-6>S-4

AGRICULTURAL DITCH - 7 0.69 ACRES

EXISTING BUILDING

0.496 ACRES IMPACT

PIPE S-6>S-5

0.372 ACRES IMPACT

PIPE S-7>S-1

PIPE S-5>S-1

AGRICULTURAL DITCH - 1 0.608 ACRES

EXISTING FARM ROAD

EXISTING SWALE

AGRICULTURAL DITCH - 2 0.565 ACRES

AGRICULTURAL DITCH - 6 1.54 ACRES

PROJECT LIMITS PERMIT LIMITS

PROJECT LIMITS PERMIT LIMITS

WETLAND

AGRICULTURAL DITCH - 5 1.67 ACRES

AGRICULTURAL DITCH - 6 1.54 ACRES

EXISTING FARM ROAD

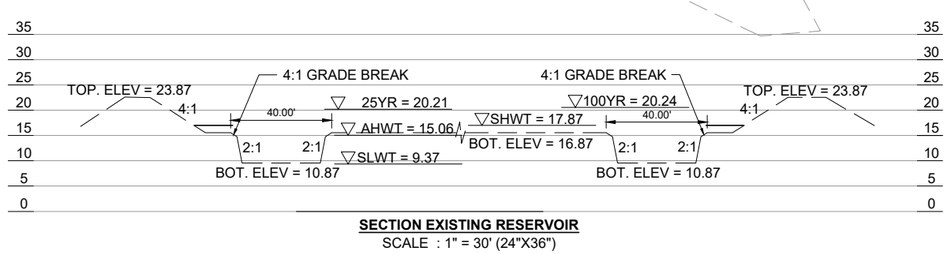
EXISTING SWALE

PROPERTY BOUNDARY

PROPERTY LINE

PIPE S-4>S-7

PROPERTY LINE



SECTION EXISTING RESERVOIR
SCALE : 1" = 30' (24"X36")

200 100 0 200

SCALE: 1" = 200' (24x36)
SCALE: 1" = 400' (11x17)

LEGEND

- PROPERTY LINE
- PROJECT LIMITS
- PERMIT LIMITS
- WETLAND AREA

Bar Measures 1 inch

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Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
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REV.	DATE	BY	CK'D	DESCRIPTION

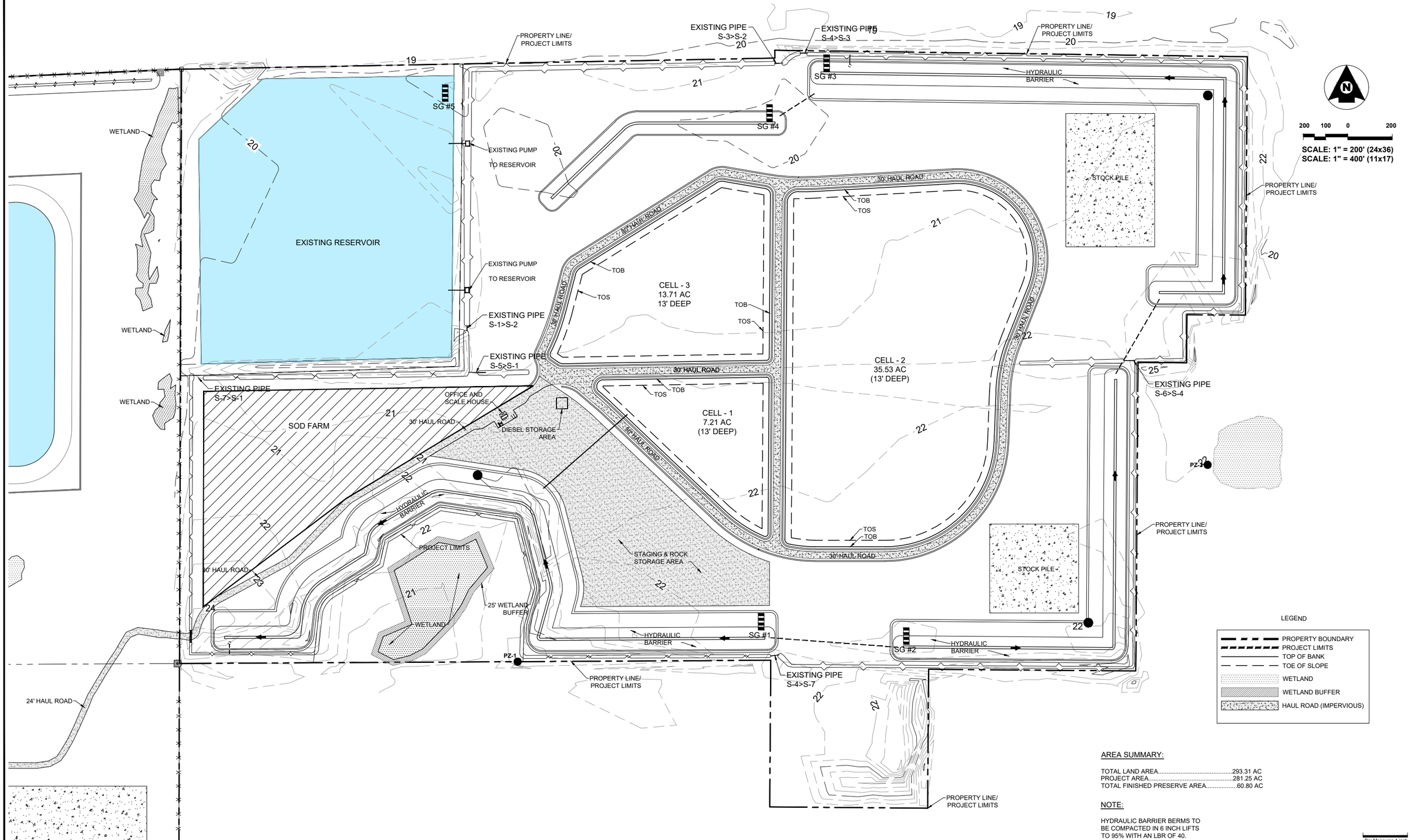
Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

WATERSIDE RESTORATION
EXISTING CONDITIONS/DEMOLITION PLAN

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

Gary W. Bayne, P.E
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License No. 62474
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DATE:	OCT 2025
DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	3



AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

NOTE:

HYDRAULIC BARRIER BERMS TO BE COMPACTED IN 6 INCH LIFTS TO 95% WITH AN LBR OF 40.

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Punta Gorda, Florida 33950
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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

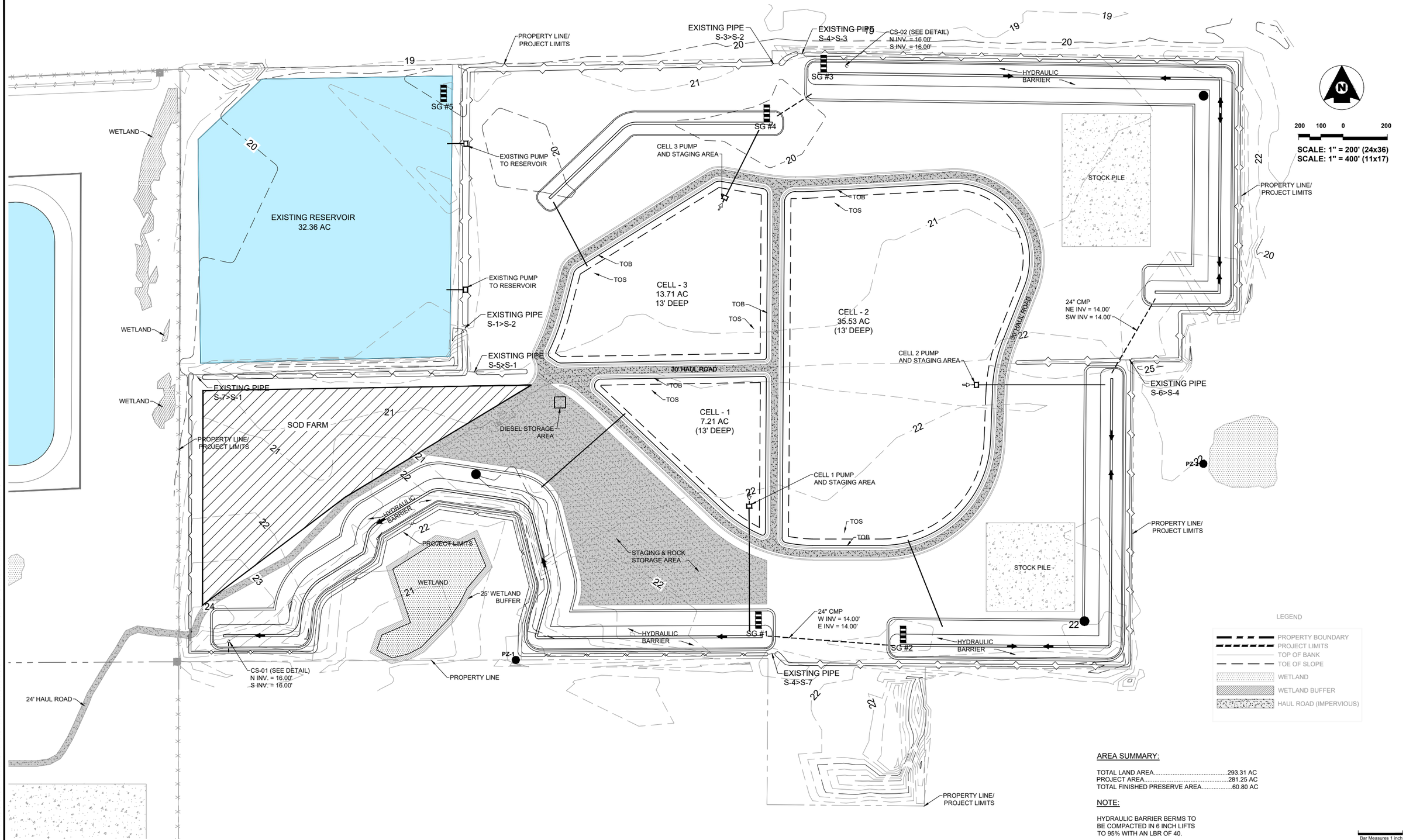
WATERSIDE RESTORATION
OVERALL EXCAVATION PLAN

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

Gary W. Bayne, P.E
State of Florida, Professional Engineer
License No. 62474
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DATE: OCT 2025
DATUM: NAVD 88
PROJECT No.: 13-0191.04
SHEET: 4

10/23/2025 12:15:25 PM - P:\13-0191.04 - WATERSIDE EAST EXCAVATION\DESIGN\CADD\PLAN SET\04 - OVERALL PHASING EXCAVATION PLAN.DWG - REED MCKOWN



AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

NOTE:

HYDRAULIC BARRIER BERMS TO BE COMPACTED IN 6 INCH LIFTS TO 95% WITH AN LBR OF 40.

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Approved By:	G W B

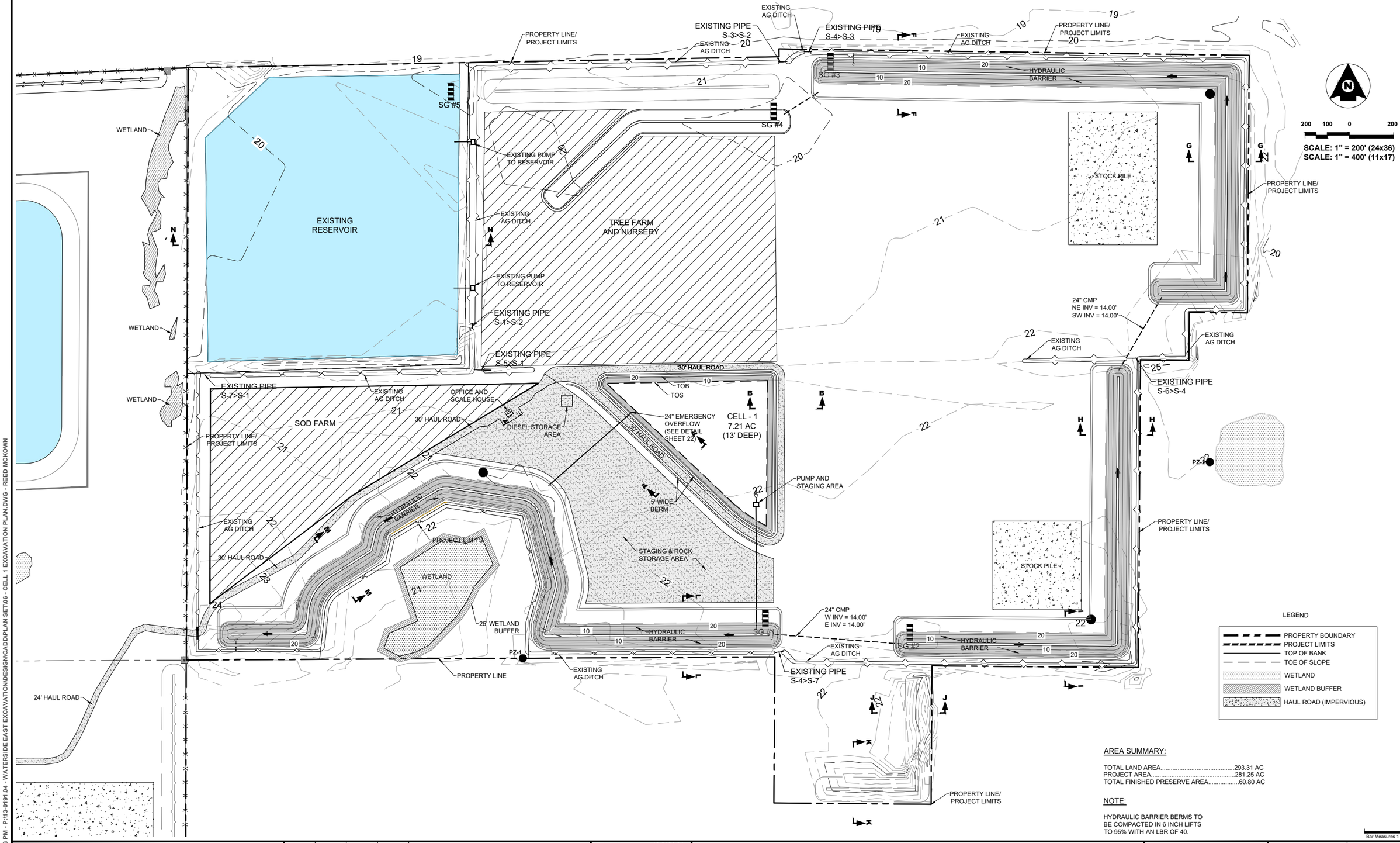
WATERSIDE RESTORATION
OVERALL DEWATERING PLAN

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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State of Florida, Professional Engineer
License No. 62474
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DATE: OCT 2025
DATUM: NAVD 88
PROJECT No.: 13-0191.04
SHEET: 5

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AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

NOTE:

HYDRAULIC BARRIER BERMS TO BE COMPACTED IN 6 INCH LIFTS TO 95% WITH AN LBR OF 40.

Bar Measures 1 inch

SED Southwest Engineering & Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
www.sedfl.com
Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

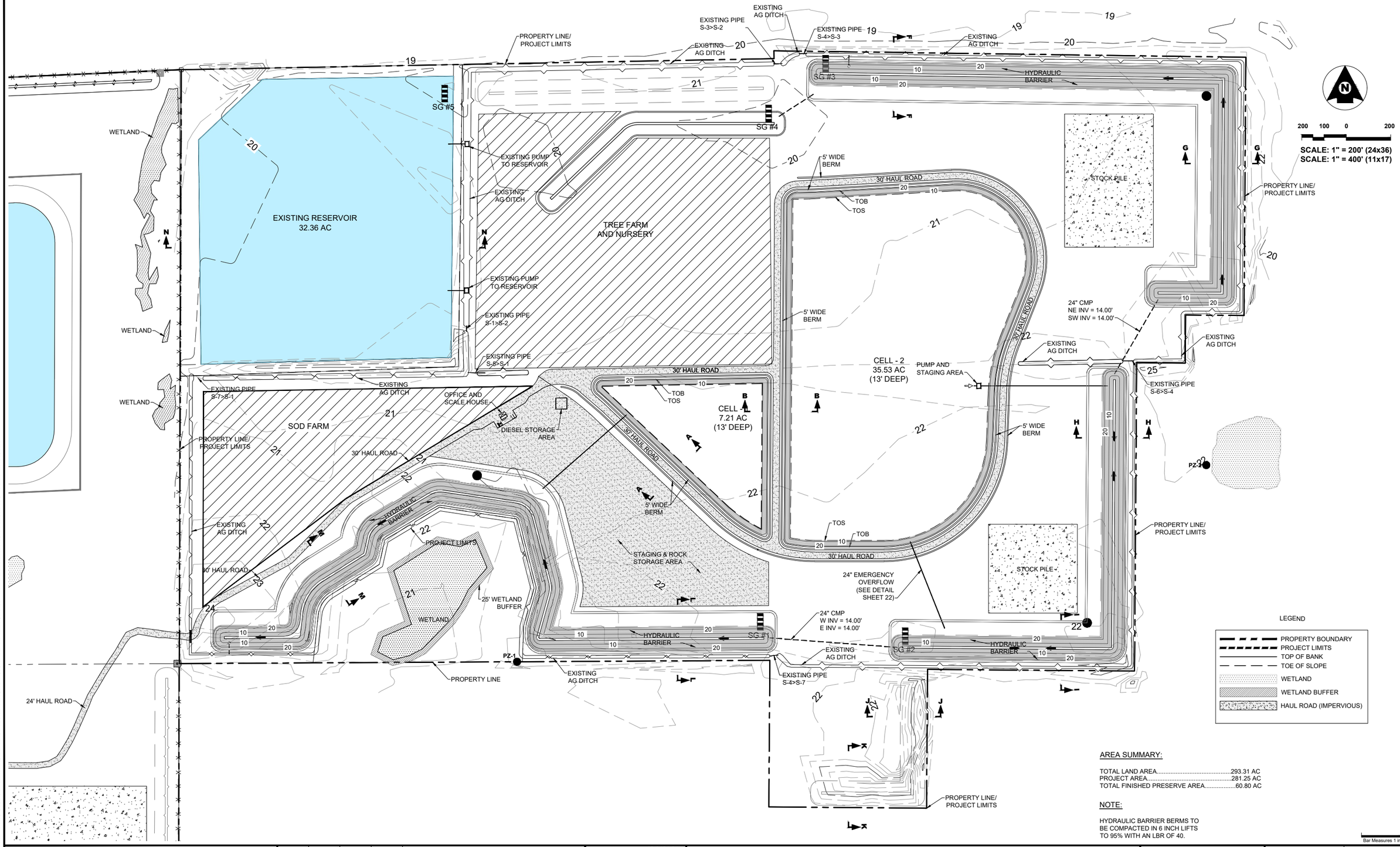
WATERSIDE RESTORATION
CELL 1 EXCAVATION PLAN

CHARLOTTE COUNTY — SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST — FLORIDA

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DATE:	OCT 2025
DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	6

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AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

NOTE:

HYDRAULIC BARRIER BERMS TO BE COMPACTED IN 6 INCH LIFTS TO 95% WITH AN LBR OF 40.

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

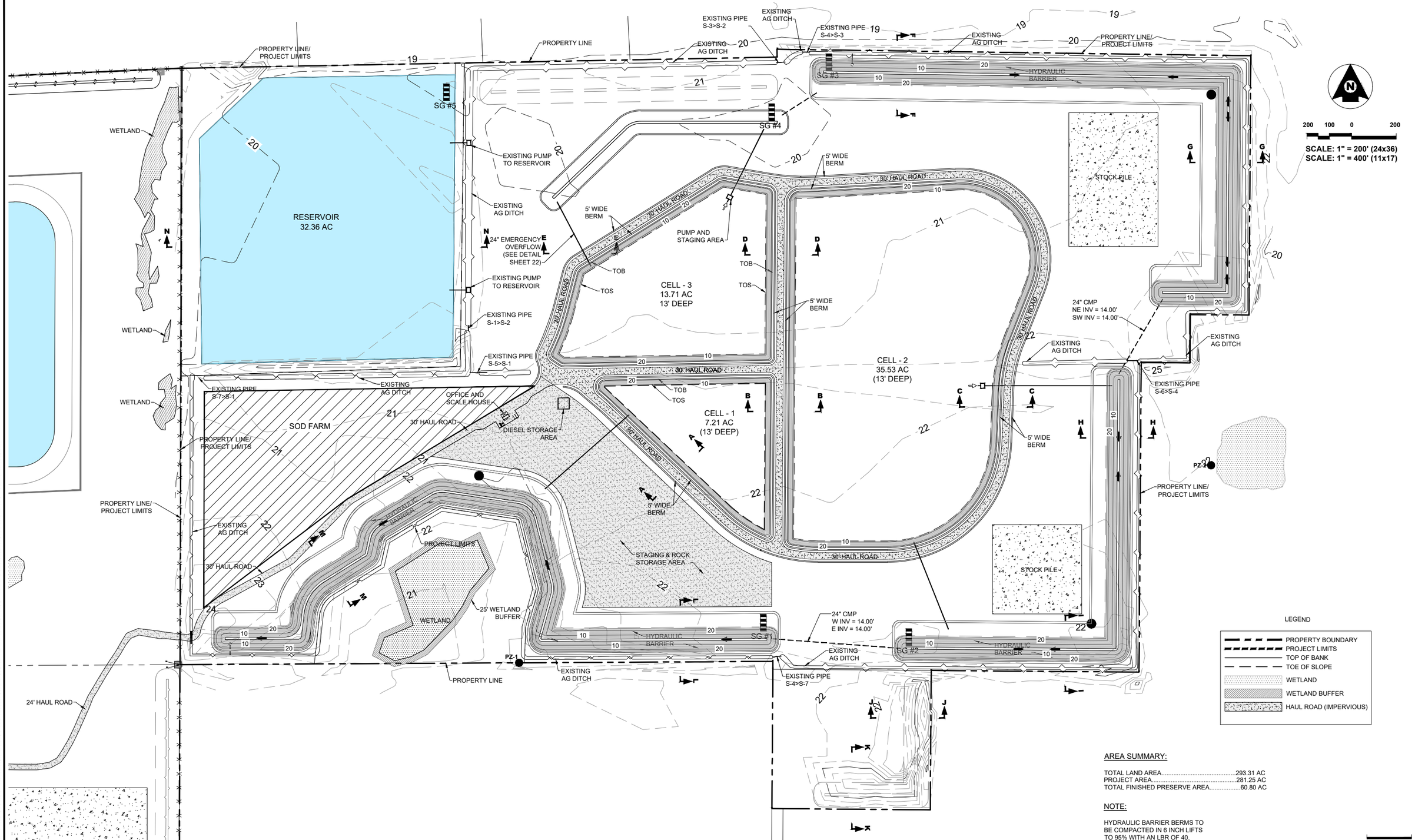
WATERSIDE RESTORATION
CELL 2 EXCAVATION PLAN

CHARLOTTE COUNTY — SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST — FLORIDA

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DATE: OCT 2025
DATUM: NAVD 88
PROJECT No.: 13-0191.04
SHEET: 7

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AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

NOTE:

HYDRAULIC BARRIER BERMS TO BE COMPACTED IN 6 INCH LIFTS TO 95% WITH AN LBR OF 40.

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

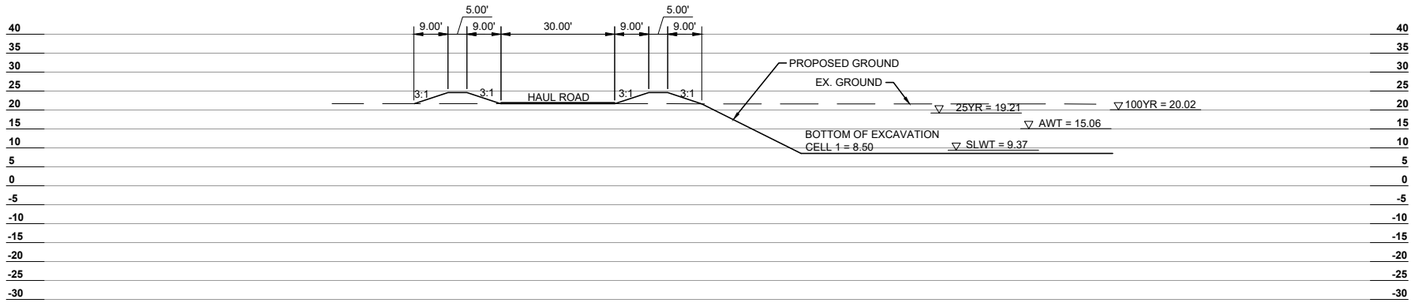
WATERSIDE RESTORATION
CELL 3 EXCAVATION PLAN

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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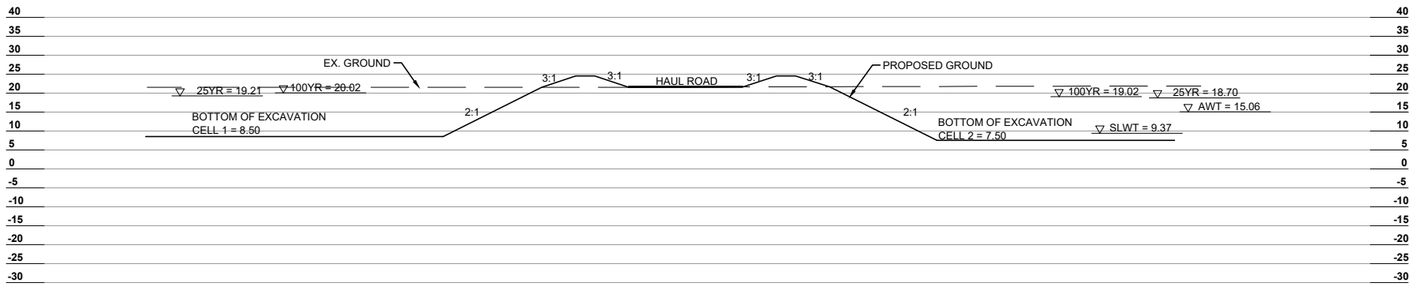
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DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	8

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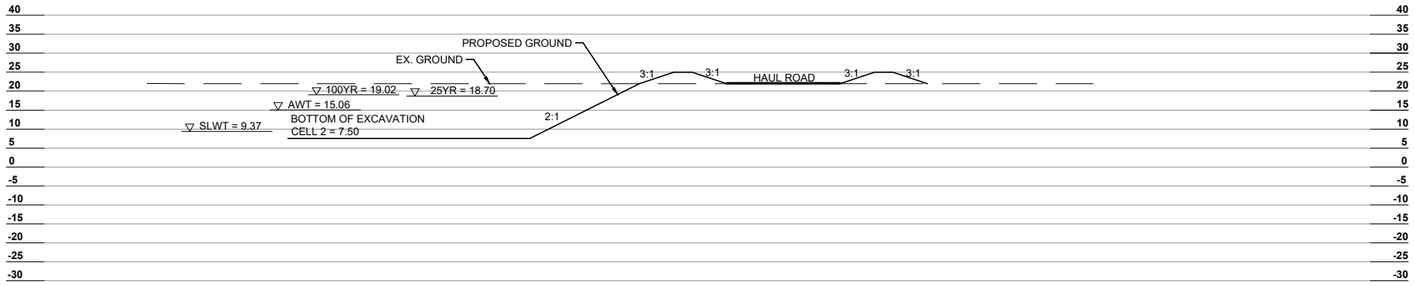
SECTION A-A

SCALE : 1" = 20' (24"X36")



SECTION B-B

SCALE : 1" = 20' (24"X36")



SECTION C-C

SCALE : 1" = 20' (24"X36")

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

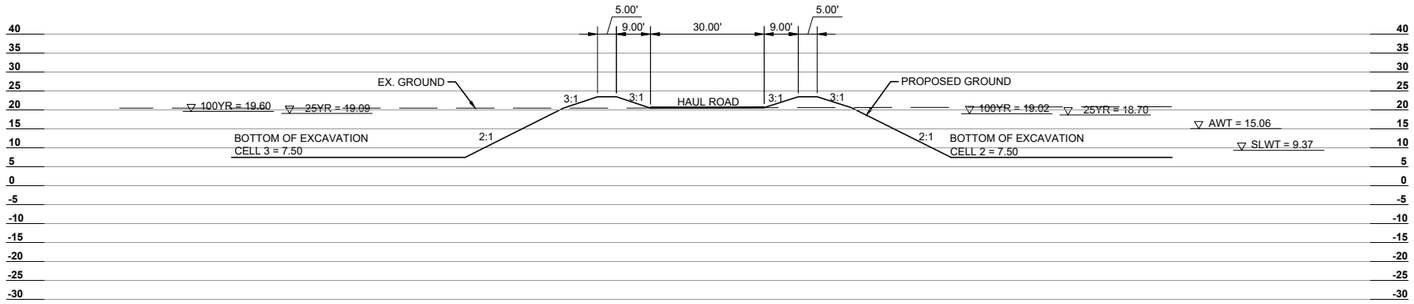
WATERSIDE RESTORATION
EXCAVATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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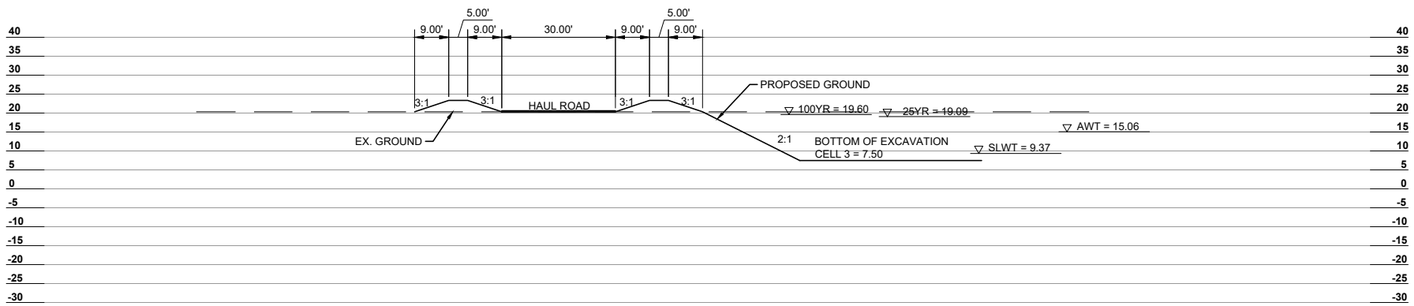
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DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	9

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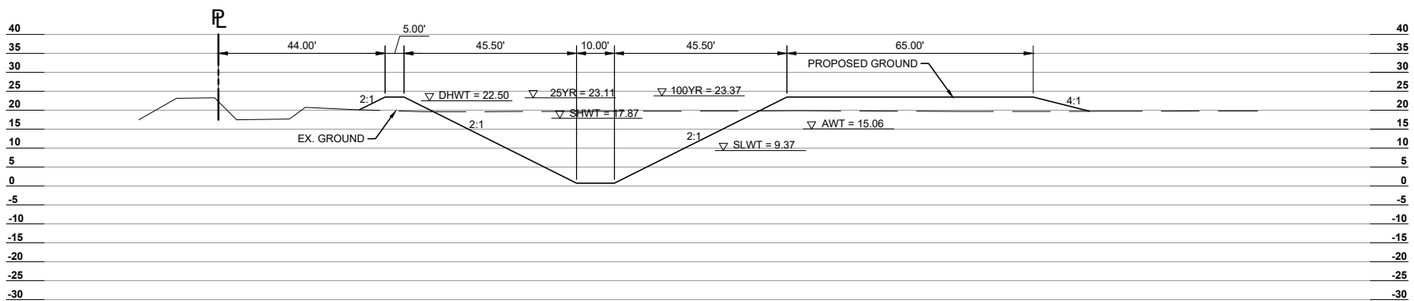
SECTION D-D

SCALE : 1" = 20' (24"X36")



SECTION E-E

SCALE : 1" = 20' (24"X36")



SECTION F-F

SCALE : 1" = 20' (24"X36")

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

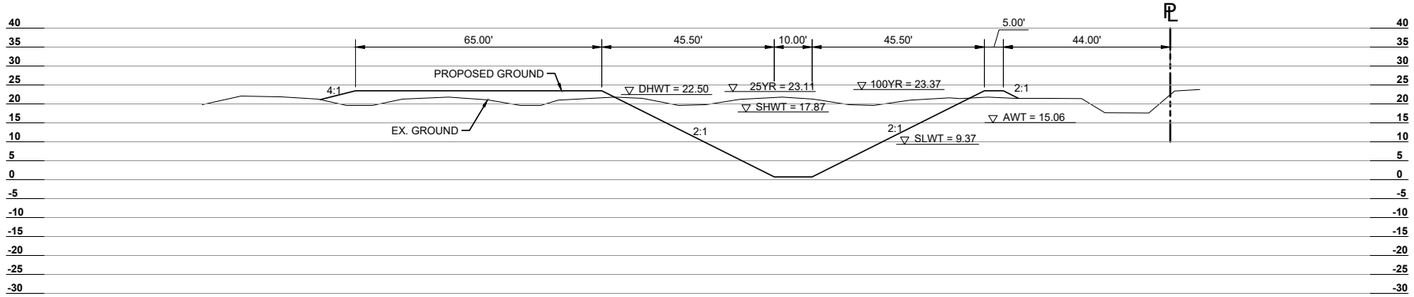
WATERSIDE RESTORATION
EXCAVATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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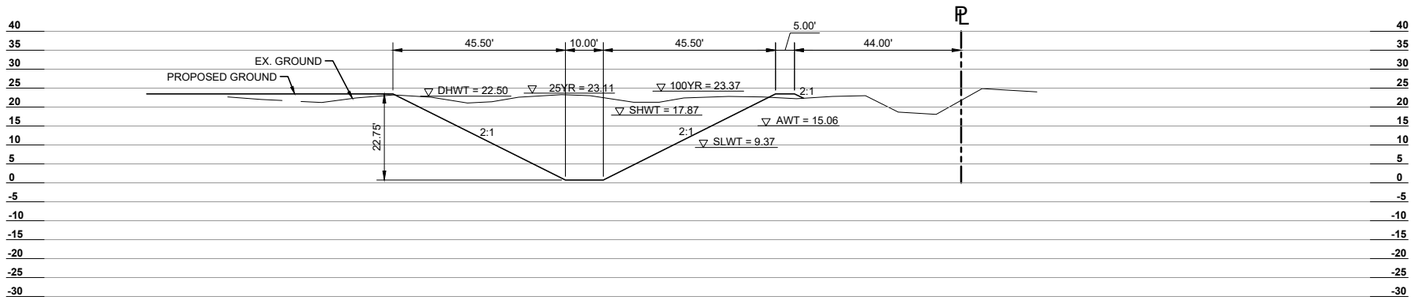
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DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	10

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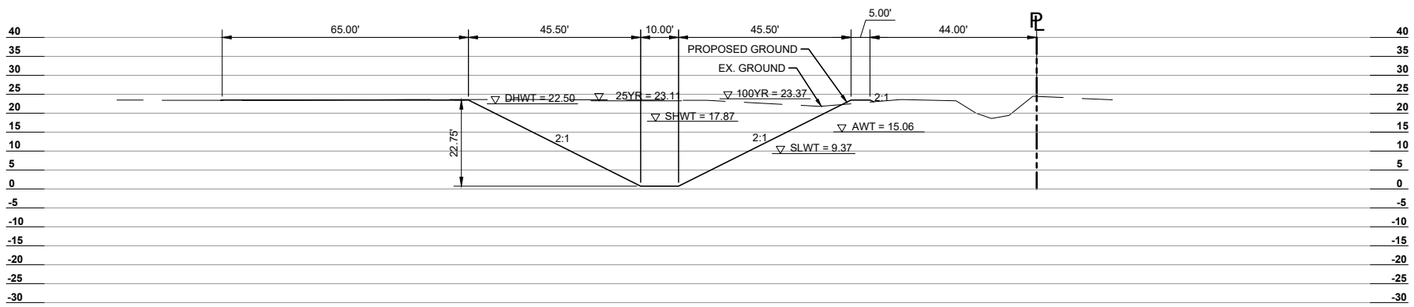
SECTION G-G

SCALE : 1" = 20' (24"X36")



SECTION H-H

SCALE : 1" = 20' (24"X36")



SECTION I-I

SCALE : 1" = 20' (24"X36")

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

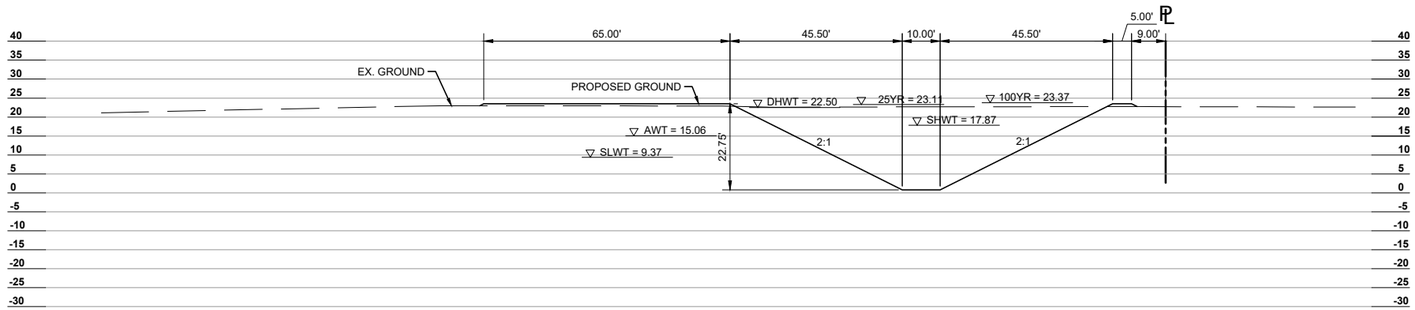
WATERSIDE RESTORATION
EXCAVATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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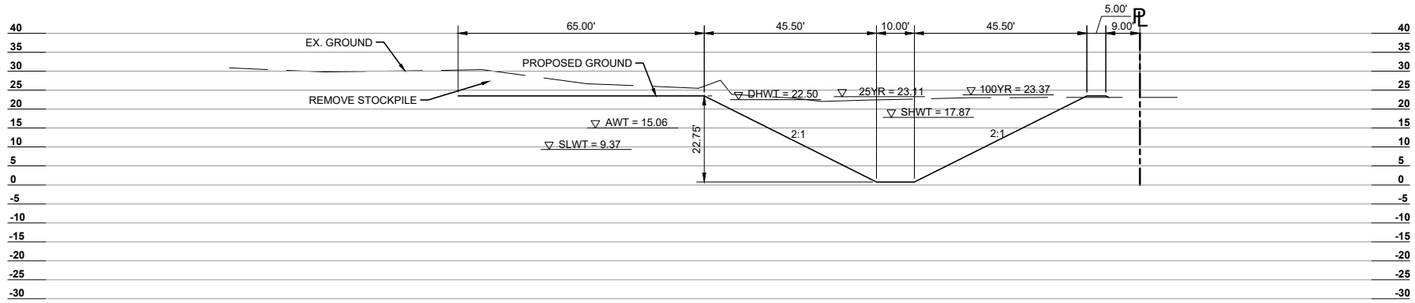
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DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	11

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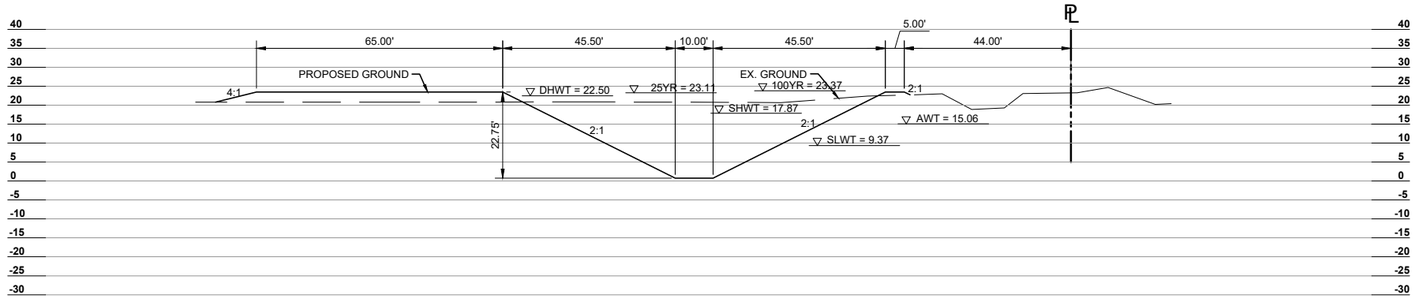
SECTION J-J

SCALE : 1" = 20' (24"X36")



SECTION K-K

SCALE : 1" = 20' (24"X36")



SECTION L-L

SCALE : 1" = 20' (24"X36")

Bar Measures 1 inch

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25450 Airport Road, Suite B
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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

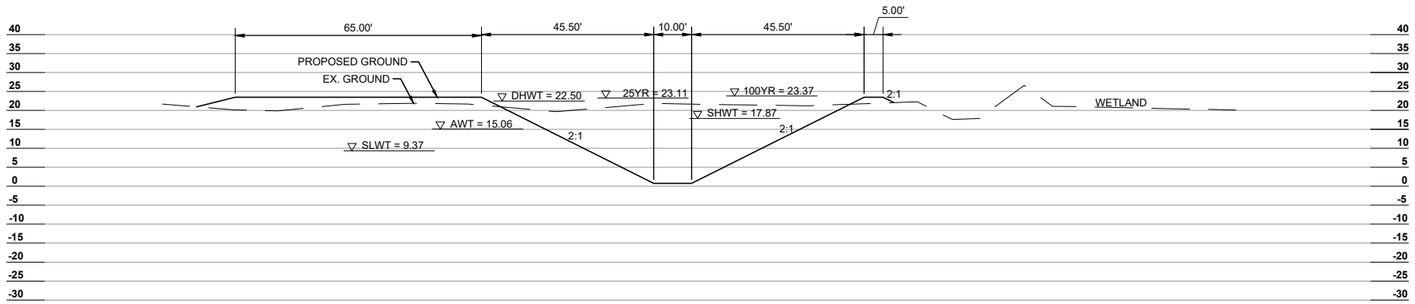
WATERSIDE RESTORATION
EXCAVATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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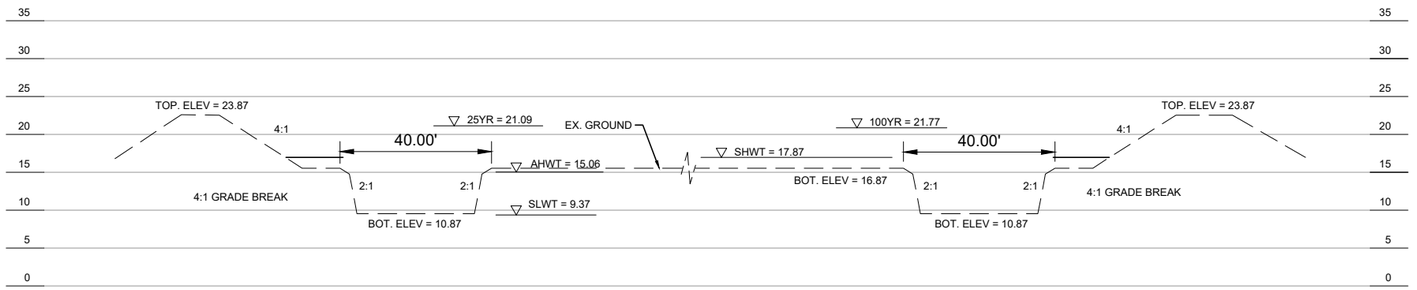
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DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	12

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SECTION M-M

SCALE : 1" = 20' (24"X36")



SECTION N-N

SCALE : 1" = 20' (24"X36")
VT : 1" = 10' (24"X36")

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

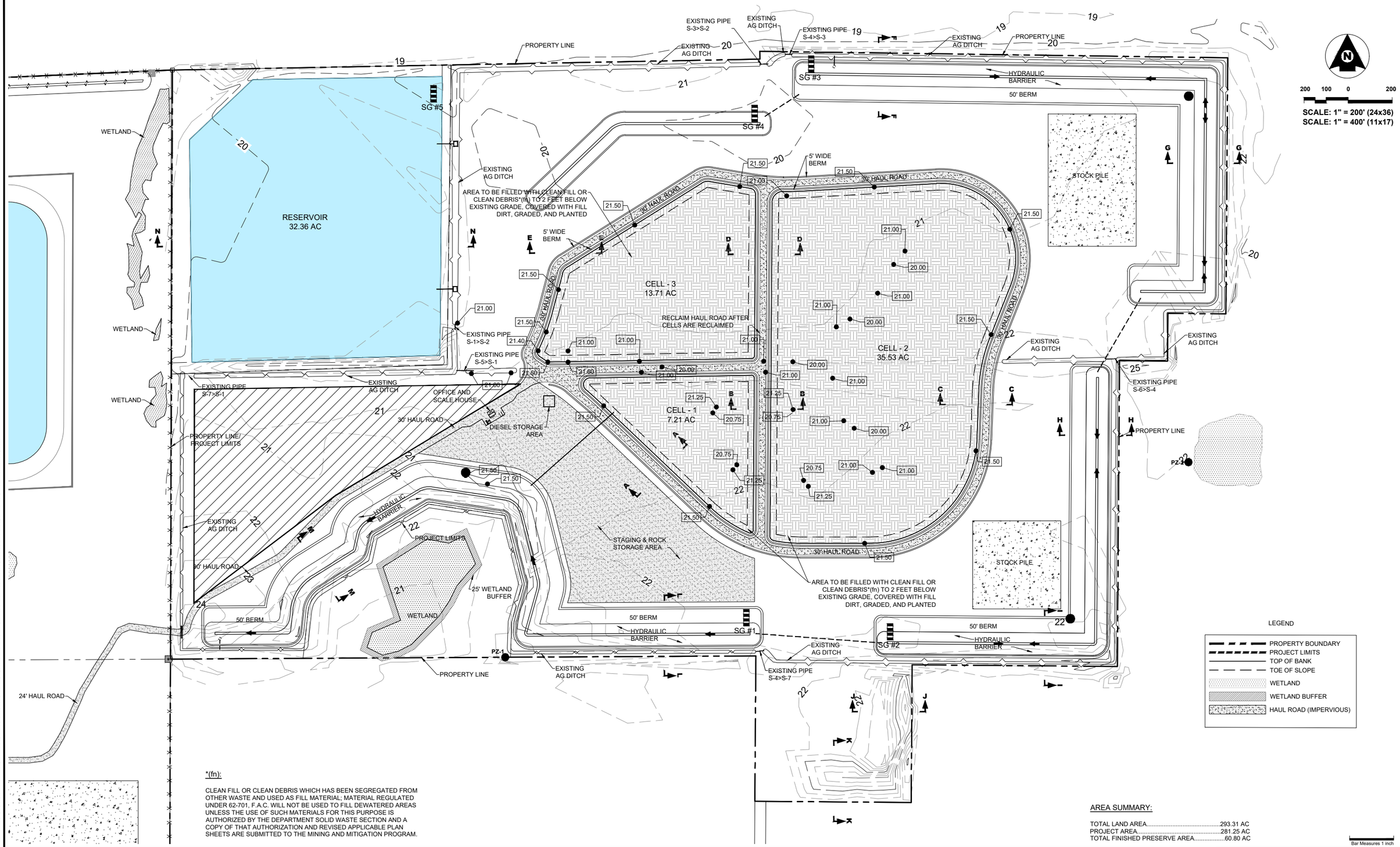
WATERSIDE RESTORATION
EXCAVATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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DATE:	OCT 2025
DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	13

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*(fn):

CLEAN FILL OR CLEAN DEBRIS WHICH HAS BEEN SEGREGATED FROM OTHER WASTE AND USED AS FILL MATERIAL; MATERIAL REGULATED UNDER 62-701, F.A.C. WILL NOT BE USED TO FILL DEWATERED AREAS UNLESS THE USE OF SUCH MATERIALS FOR THIS PURPOSE IS AUTHORIZED BY THE DEPARTMENT SOLID WASTE SECTION AND A COPY OF THAT AUTHORIZATION AND REVISED APPLICABLE PLAN SHEETS ARE SUBMITTED TO THE MINING AND MITIGATION PROGRAM.

AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

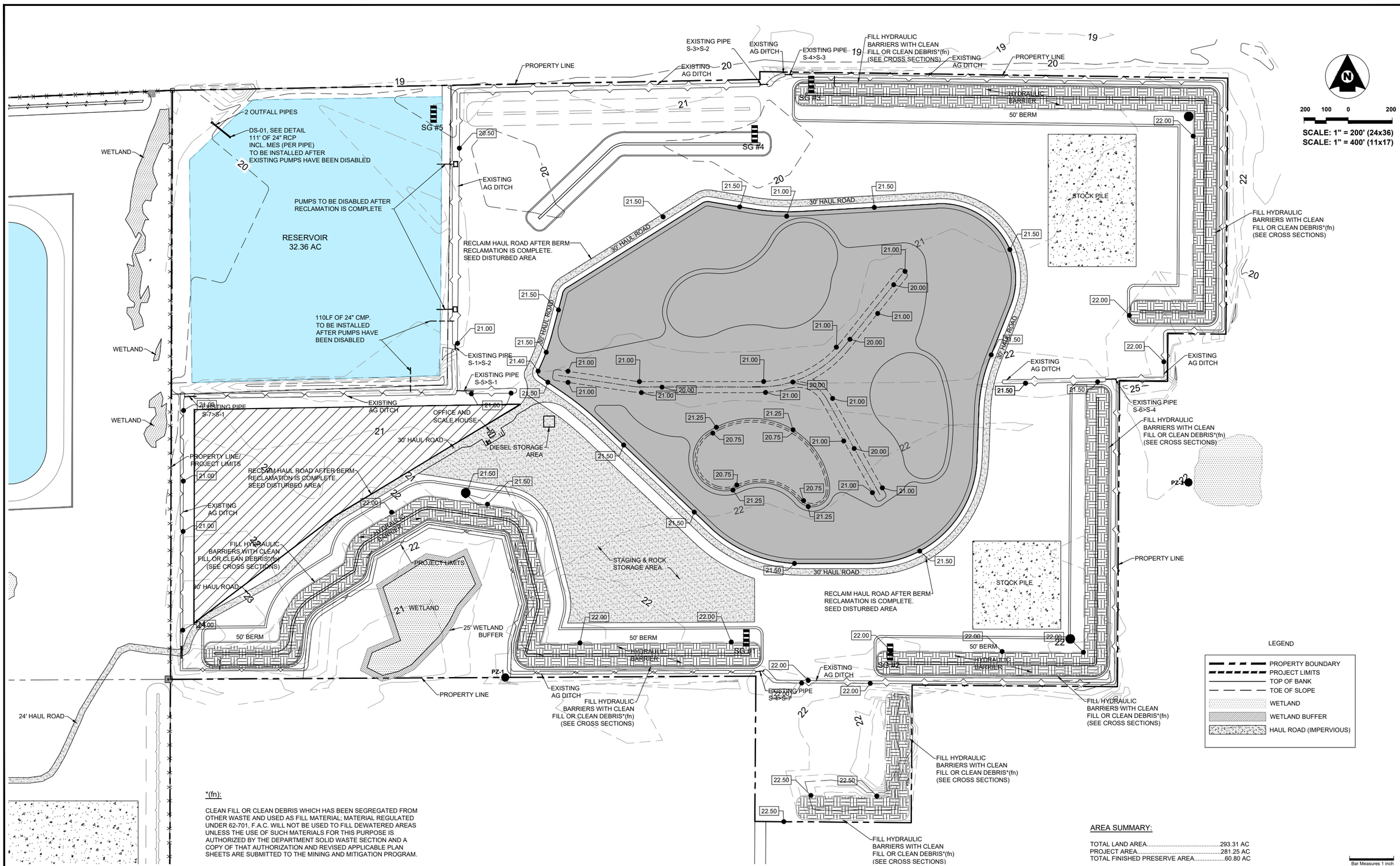
WATERSIDE RESTORATION RECLAMATION PLAN PHASE 1

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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DATE: OCT 2025
DATUM: NAVD 88
PROJECT No.: 13-0191.04
SHEET: 14

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AREA SUMMARY:

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PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

Bar Measures 1 inch

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

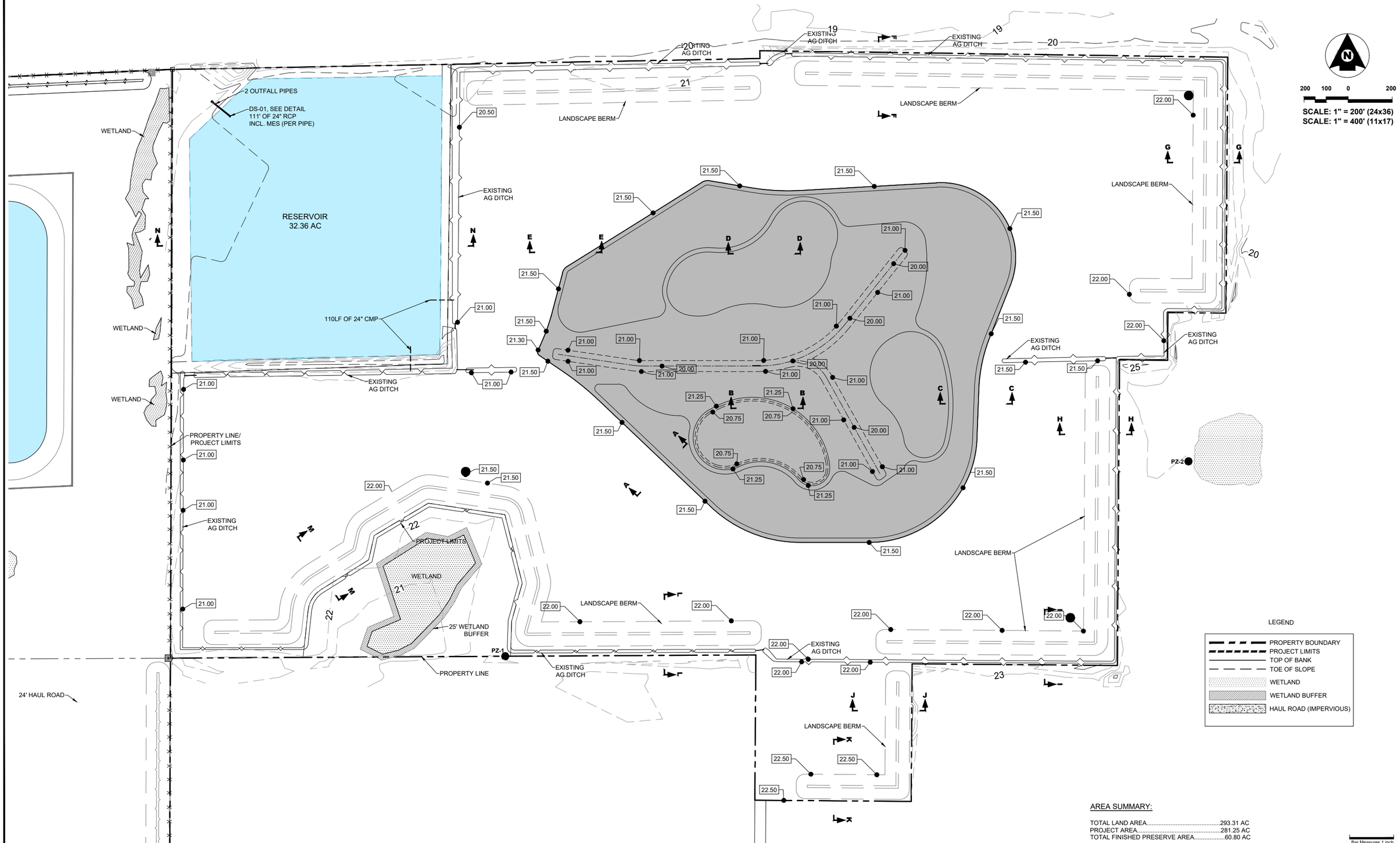
WATERSIDE RESTORATION RECLAMATION PLAN PHASE 2

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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DATE:	OCT 2025
DATUM:	NAVD 88
PROJECT No.:	13-0191.04
SHEET:	15

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AREA SUMMARY:

TOTAL LAND AREA.....293.31 AC
PROJECT AREA.....281.25 AC
TOTAL FINISHED PRESERVE AREA.....60.80 AC

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Project No.:	13-0191.04
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Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

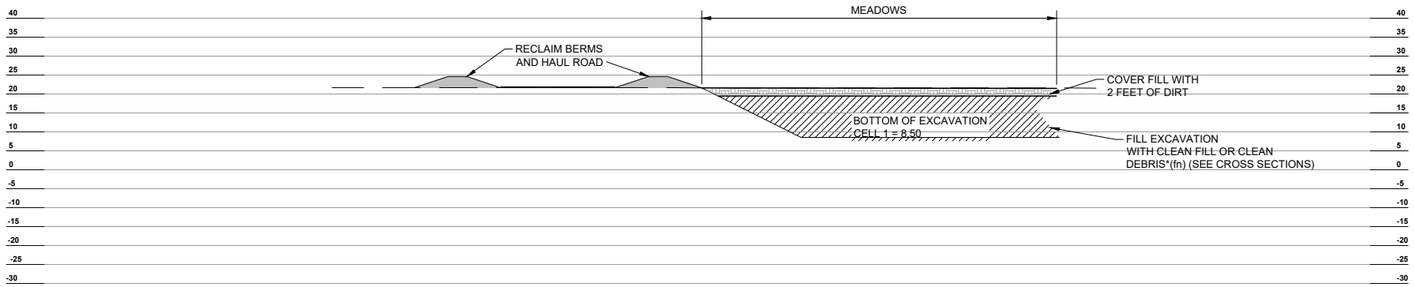
WATERSIDE RESTORATION RECLAMATION PLAN

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

Gary W. Bayne, P.E
State of Florida, Professional Engineer
License No. 62474
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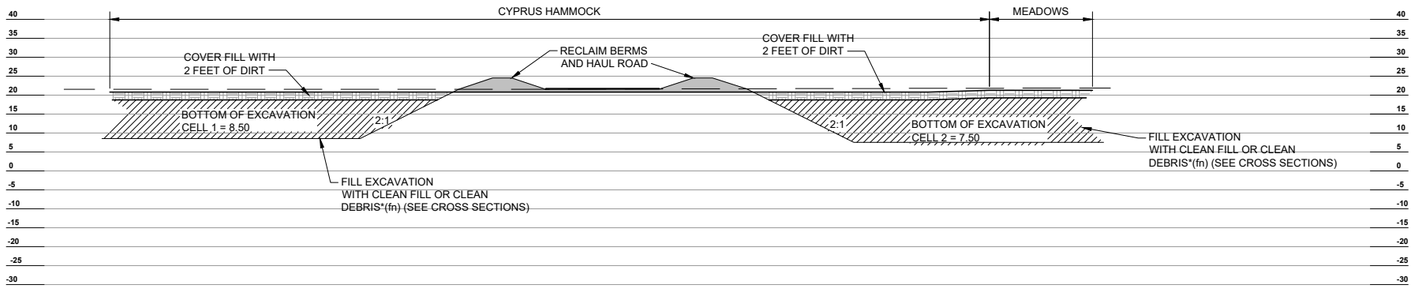
DATE: OCT 2025
DATUM: NAVD 88
PROJECT No.: 13-0191.04
SHEET: 16

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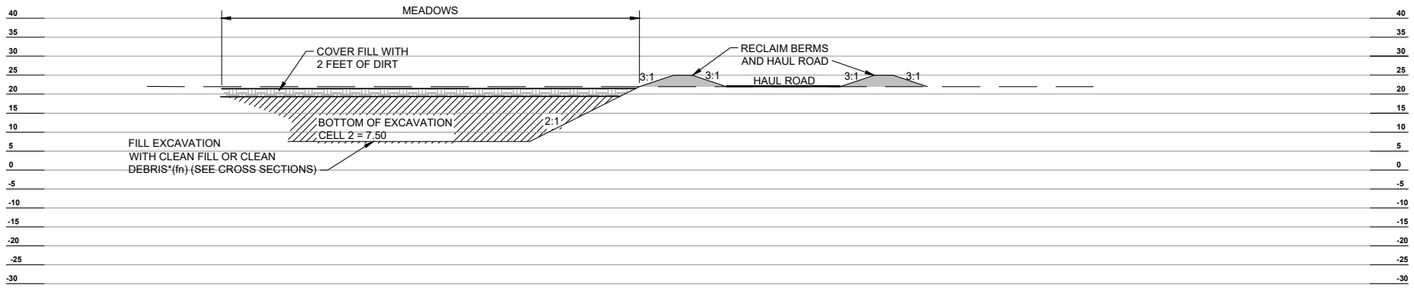
SECTION A-A

SCALE : 1" = 20' (24"X36")



SECTION B-B

SCALE : 1" = 20' (24"X36")



SECTION C-C

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Bar Measures 1 inch

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www.sedfl.com
Certificate of Authorization No. 26551

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Project Engineer:	G W B
Project Designer:	-
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Approved By:	G W B

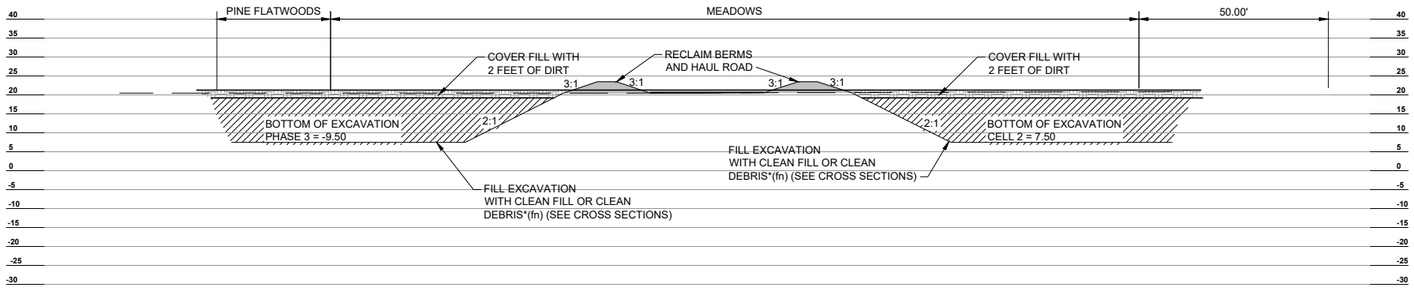
WATERSIDE RESTORATION
RECLAMATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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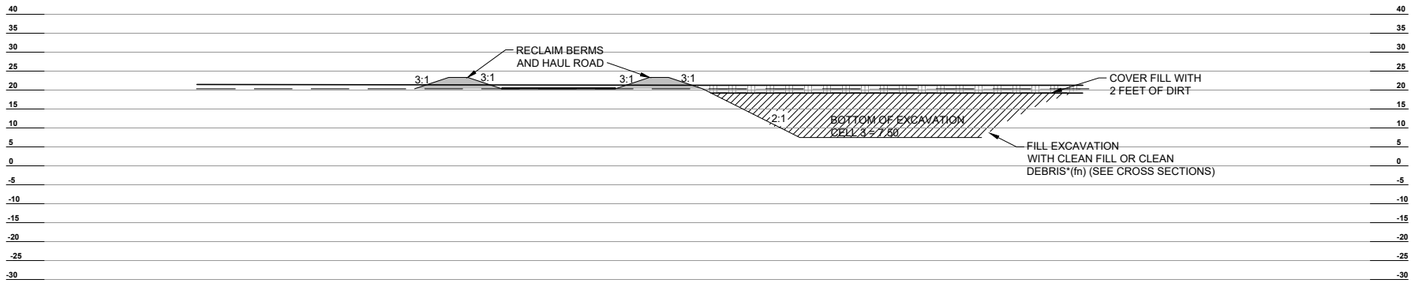
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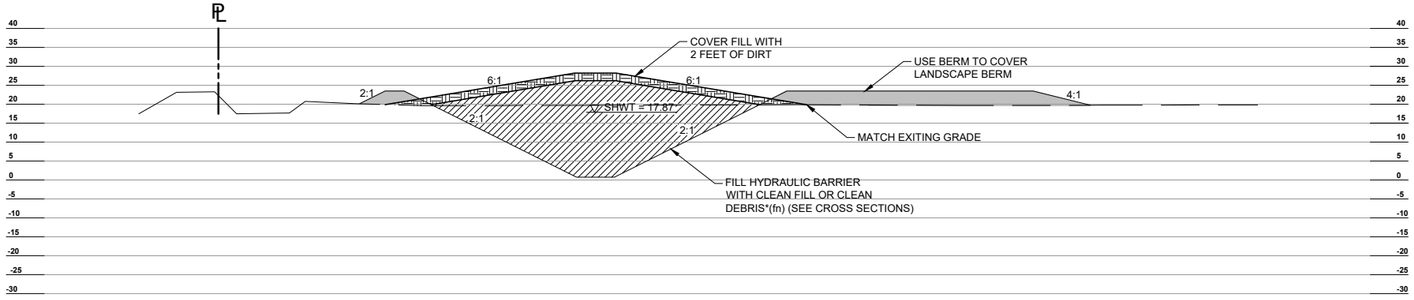
SECTION D-D

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SECTION E-E

SCALE : 1" = 20' (24"X36")



SECTION F-F

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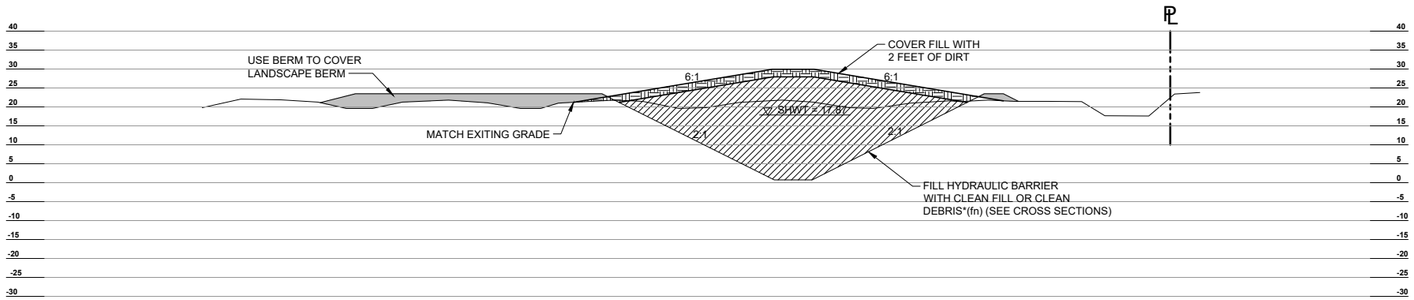
WATERSIDE RESTORATION
RECLAMATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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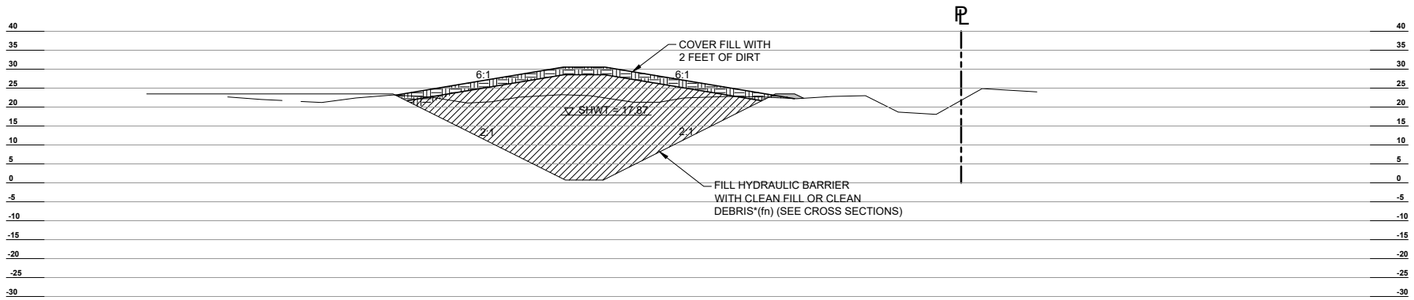
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PROJECT No.:	13-0191.04
SHEET:	18

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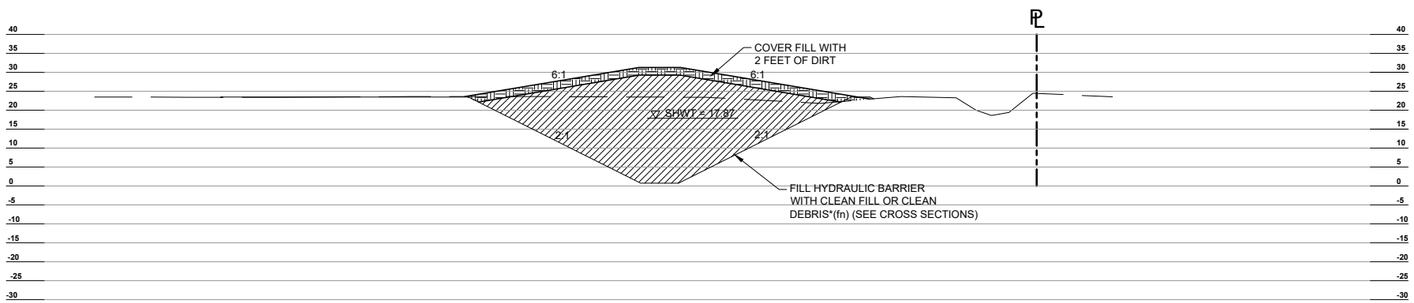
SECTION G-G

SCALE : 1" = 20' (24"X36")



SECTION H-H

SCALE : 1" = 20' (24"X36")



SECTION I-I

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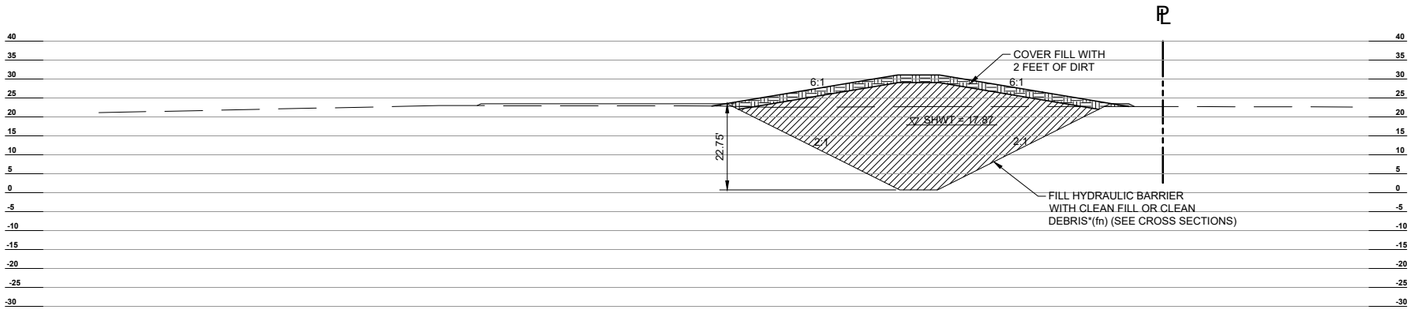
WATERSIDE RESTORATION
RECLAMATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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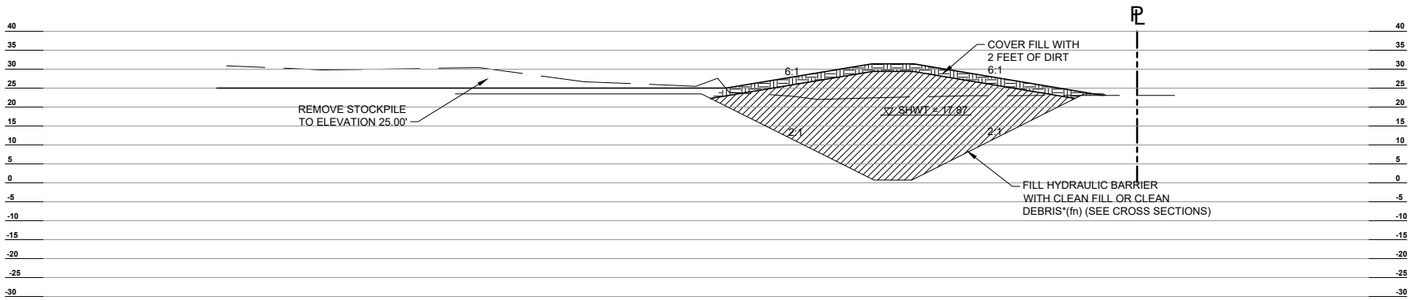
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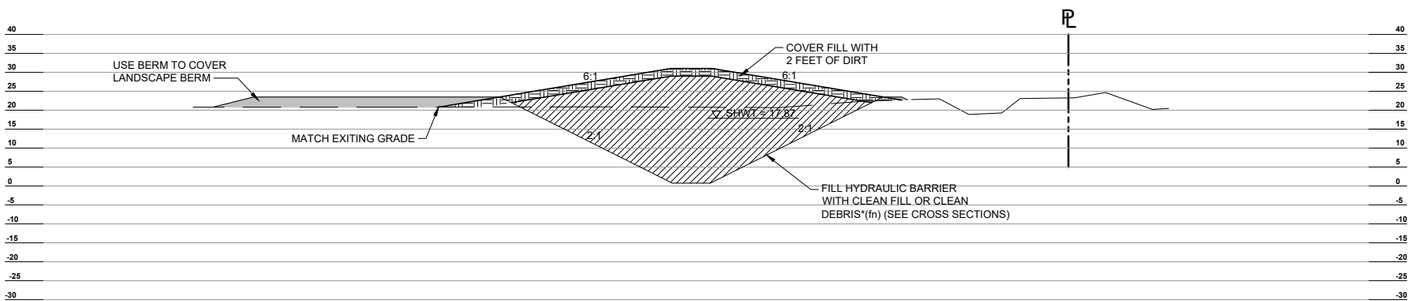
SECTION J-J

SCALE : 1" = 20' (24"X36")



SECTION K-K

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SECTION L-L

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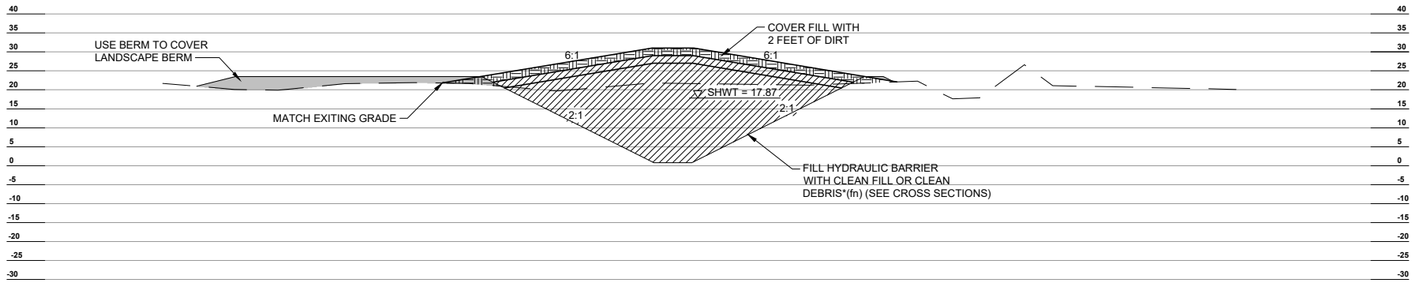
WATERSIDE RESTORATION
RECLAMATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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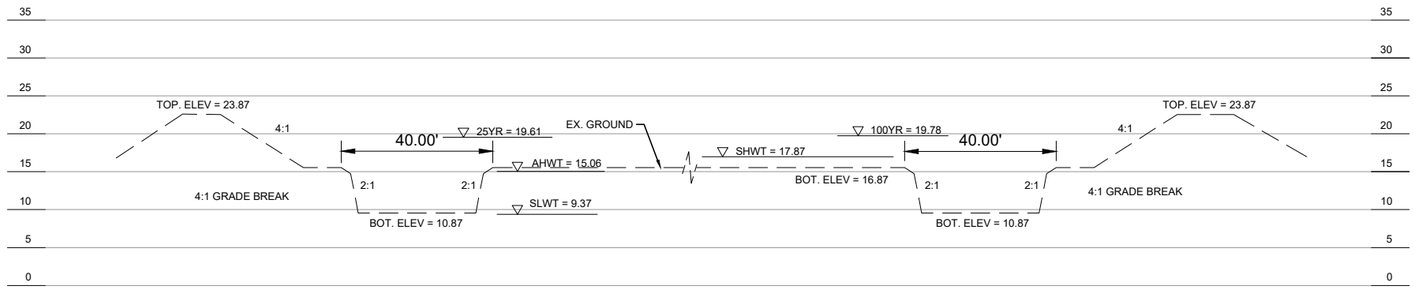
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SECTION M-M

SCALE : 1" = 20' (24"X36")



SECTION N-N

SCALE : 1" = 20' (24"X36")
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WATERSIDE RESTORATION
RECLAMATION CROSS SECTIONS

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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EROSION CONTROL NOTES:

1. GENERAL
THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.

2. WETLAND PROTECTION
IN AREAS OF CONSTRUCTION ADJACENT TO WETLANDS, THE FOLLOWING SHALL BE PERFORMED:

a) THE ACTUAL WETLAND AND REQUIRED BUFFERS, AS SHOWN ON THE PLANS, MUST BE ROPED OFF PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY ADJACENT TO SAID AREAS.

b) PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL ADJACENT TO WETLANDS OR BUFFER AREAS, A SILTATION BARRIER SHALL BE CONSTRUCTED. AN ACCEPTED ALTERNATE BARRIER WOULD BE A LINE OF HAY BALES.

c) NO RIM DITCHING OF THE WETLANDS SHALL BE PERFORMED. WATER LEVELS IN THE WETLANDS SHOULD BE MAINTAINED.

d) IN AREAS OF WETLANDS IN WHICH WORK IS TO BE PERFORMED, SUCH AREAS MUST BE CLEARLY STAKED AND ROPED OFF. ALONG SUCH LIMITS, A SILTATION BARRIER MUST BE CONSTRUCTED. THE USE OF SMALL EQUIPMENT IN THESE AREAS IS RECOMMENDED.

e) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THESE BARRIERS. BARRIERS SHALL REMAIN IN PLACE UNTIL AREAS ARE STABILIZED.

f) IF DAMAGE IS DONE TO THE WETLAND AREA, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO PROTECTED AREAS.

g) IN AREAS WHERE IMPACTS WILL BE PERFORMED IN WETLANDS, SUCH AREAS SHALL BE STRIPPED OF EXISTING MATERIAL AND STOCKPILED FOR USE IN THE RE-CREATION OF THESE AREAS OR IN LITTORAL ZONES.

3. EARTH MOVING ACTIVITIES
a) THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE THE NATURAL LANDSCAPE AND SHALL CONDUCT HIS/HER CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY UNNECESSARY DESTRUCTION, SCARRING OR DEFACING OF THE NATURAL SURROUNDINGS IN THE VICINITY OF THE WORK AREA. EXCEPT WHERE CLEARING IS REQUIRED FOR PERMANENT WORK, FOR APPROVED CONSTRUCTION ROADS OR FOR EXCAVATION OPERATIONS, ALL TREES, NATIVE SHRUBBERY AND VEGETATION SHALL BE PRESERVED AND SHALL BE PROTECTED FROM DAMAGE WHICH MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND EQUIPMENT.

b) THE FIRST STAGE OF THE EARTH MOVING ACTIVITY SHALL BE CONFINED TO THE EXCAVATION OF THE STORMWATER FACILITY.

c) TOPSOIL SHOULD BE TAKEN FROM THE CONSTRUCTION AREAS AND SHOULD BE STOCKPILED FOR REUSE IN FINISHED GRADING. STOCKPILES SHOULD BE PLACED SO AS NOT TO ADD ANY ADDITIONAL SEDIMENT TO THE CONSTRUCTION. THE STOCKPILES SHOULD BE MULCHED AND/OR SEEDED WHEN EXPOSED BEYOND THIRTY (30) DAYS.

d) GRADED AREAS ARE TO BE SEEDED AND/OR SODDED WITHIN THIRTY (30) DAYS FOLLOWING EARTH MOVING PROCEDURES. IF THE TIME OF YEAR IS NOT CONDUCIVE FOR PERMANENT SEEDING, A TEMPORARY MULCH AND/OR SEEDING SHOULD BE USED.

e) TEMPORARY DIVERSION BERMS AND/OR BARRIERS SHALL BE REMOVED ONLY AFTER THE CONSTRUCTION OF THOSE AREAS DIRECTED TO THE BERMS AND/OR BARRIERS HAVE BEEN COMPLETED.

f) THE SILT COLLECTION PONDS SHOULD BE REMOVED AND/OR REGRADED FOR PERMANENT USE, AS THE FINAL GRADING AND SEEDING OVERLAP THE AREA USED BY SAME.

4. FILLS
a) LAND TO BE CUT OR FILLED SHOULD BE CLEARED OF TREES, STUMPS, ROOTS, BRUSH, BOULDERS, SOD AND DEBRIS.

b) FILL AREAS SHOULD BE SCARIFIED, KEYED AND DRAINED.

c) FILL MATERIAL SHOULD BE FREE OF SOD, ROOTS, OR OTHER DECOMPOSABLE MATERIAL.

d) THE PLACING AND SPREADING OF FILL MATERIAL SHOULD BE STARTED AT THE LOWEST POINT.

e) GENERALLY, A 6:1 SLOPE SHOULD BE USED UNLESS SPECIFIC ENGINEERING DATA SHOWS A STEEPER SLOPE IS STABLE. SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND MAINTENANCE.

f) FILLS SHOULD BE SEEDED AND/OR MULCHED IMMEDIATELY UPON COMPLETION OF EARTH PLACEMENT.

g) WATER MANAGEMENT SYSTEMS SHOULD BE PROVIDED TO PREVENT WATER CONCENTRATION AND ERODING THE FACE OF THE SLOPE. KEEP SURFACE WATER OFF THE FACE OF THE SLOPE.

5. CUTS
a) DIVERSIONS SHOULD BE CONSTRUCTED AT TOP OF THE SLOPES PRIOR TO CUTTING OPERATIONS TO CONVEY WATER FROM FACE OF SLOPE.

b) STEEPNESS OF CUTS WILL DEPEND ON SOIL TYPE AND DESIGN; HOWEVER, CUT SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND STABILITY.

c) CUT SLOPES SHOULD BE BENCHED TO PROVIDE ACCESS FOR SEEDING AND MULCHING EQUIPMENT.

d) CUT SLOPES SHOULD BE SEEDED AND/OR MULCHED IMMEDIATELY AFTER REMOVAL OF EARTH.

6. TEMPORARY SEDIMENT BASIN AND PERMANENT STORMWATER BASINS
a) SITE PREPARATION
AREAS UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIALS. IN ORDER TO FACILITATE CLEAN-OUT AND RESTORATION, THE POOL AREA (MEASURED AT THE TOP OF THE SPILLWAY) WILL BE CLEARED OF ALL BRUSH AND TREES.

b) CUT-OFF TRENCH A CUT-OFF TRENCH, WHEN POND DEPTHS ARE IN EXCESS OF THREE FEET, SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. THE MINIMUM DEPTH SHALL BE TWO FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. THE MINIMUM BOTTOM DEPTH SHALL BE FOUR FEET, BUT WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DEWATERED DURING THE BACKFILLING-COMPACTING OPERATIONS.

c) EMBANKMENT THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN SOIL FREE OF ROOTS. WOODY VEGETATIONS, OVER-SIZED STONES, ROCKS OR OTHER OBJECTIONABLE MATERIAL. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN SIX TO EIGHT INCHES THICK CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER OF THE FILL IS TRAVERSED BY AT LEAST ONE WHEEL OF TREAD TRUCK OF THE EQUIPMENT OR BY THE USE OF A COMPACTOR. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION OF 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLEMENT IF COMPACTION IS OBTAINED WITH HAULING EQUIPMENT. IF COMPACTORS ARE USED FOR COMPACTION, THE OVERBUILD MAY BE REDUCED TO NOT LESS THAN 5%.

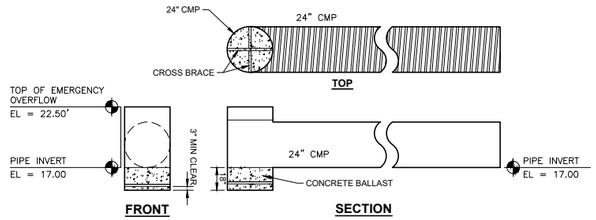
d) PIPE SPILLWAYS THE RISER SHALL BE SECURELY ATTACHED TO THE BARREL OF THE OUTFALL PIPE. THE BARREL AND RISER SHALL BE PLACED ON A FIRM, SMOOTH SOIL FOUNDATION. THE CONNECTION BETWEEN THE RISER AND RISER BASE SHALL BE WATERTIGHT. THE FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE PLACED IN FOUR INCH LAYERS AND COMPACTED UNDER THE SHOULDERS AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.

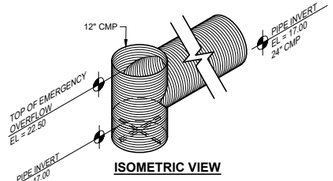
e) EROSION POLLUTION CONTROL CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.

7) MAINTENANCE
a) REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORK DAY.

b) SEDIMENT SHALL BE REMOVED FROM SUMP AREAS. THE SEDIMENT SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT ERODE FROM THE SITE. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT OR IN OR ADJACENT TO A STREAM OR FLOOD PLAIN.

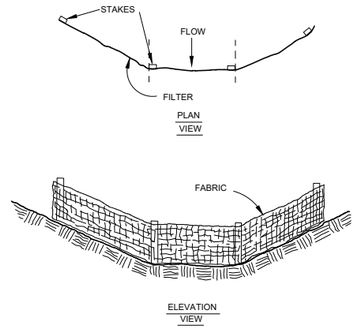
c) AFTER CONSTRUCTION IS COMPLETED AND AREAS ARE SEEDED AND/OR SODDED, MAINTENANCE IS LIMITED TO VISUAL INSPECTIONS ON A ROUTINE BASIS. ANY DAMAGE TO THE BERM SHALL BE REPAIRED AT ONCE AND RE-SODDED AND/OR RE-SEEDED. IF THE LEVEL OF WATER IS BEING MAINTAINED OVER THE EXPECTED DRAW DOWN TIME, THE OUTFALL SYSTEM SHALL BE CLEANED AND REPAIRED.





STRUCTURE DETAIL - EMERGENCY OVERFLOW

SCALE: NTS



1. FILTER BARRIERS MUST BE INSTALLED, AS INDICATED HEREIN, PRIOR TO CONSTRUCTION.
2. FILTER BARRIERS SHALL NOT BE INSTALLED IN ANY CONFIGURATION THAT BLOCKS THE THROAT OF ANY STORMWATER INLET.
3. INSPECTIONS AND REPAIRS TO BARRIERS SHALL BE MADE DAILY.
4. FILTER BARRIERS SHALL BE REMOVED UNTIL APPROVED BY ENGINEER.

STAKED SILT BARRIER

N.T.S.

(DURING CONSTRUCTION ONLY)

SEQUENCE OF OPERATIONS

1. IMPLEMENT BEST MANAGEMENT PRACTICES AND EROSION CONTROL DEVICES.
2. CONSTRUCT HAUL ROAD AND TIE INTO WASHINGTON LOOP ROAD.
3. THE EXCAVATION WORK WILL BE DONE IN TWO PHASES AND WILL CONSIST OF TWO CELLS. THE HYDRAULIC BARRIER WILL BE CONSTRUCTED PRIOR TO ANY DEWATERING EFFORTS. PLEASE REFER TO THE EXCAVATION DEVELOPMENT PLAN SHEETS.

   HYDRAULIC BERMS TO BE COMPACTED TO 98% MAX DENSITY w/ MIN LBR 40. SEED AND MULCH HYDRAULIC BARRIER BERMS FOR STABILIZATION PURPOSES.

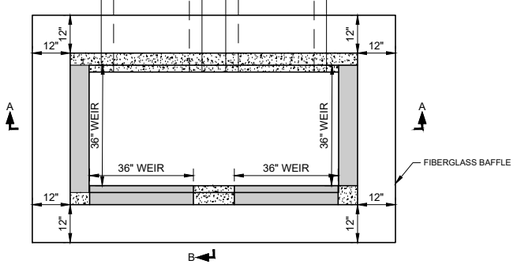
   CONSTRUCT PLATFORM FOR PUMP AND STAGING AREA FOR DRYING OF DIRT.

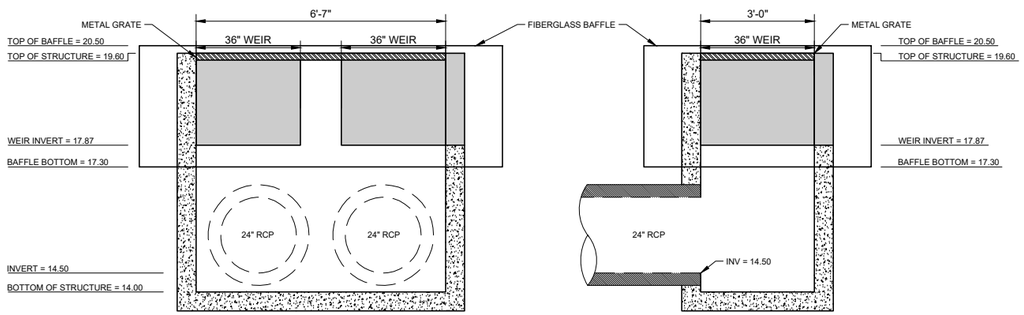
   A KEY DITCH WILL BE CUT FOR THE PORTION OF THE EXCAVATION TO BE MINED. DURING THE CONSTRUCTION OF THIS PHASE(S) AN 8" AND/OR 12" DIESEL HYDRAULIC PUMP WILL BE USED TO DEWATER THE KEY TRENCH AND SUBSEQUENT EXCAVATION AND DISCHARGE INTO A SETTLING POND WHICH THEN DISCHARGES INTO THE HYDRAULIC BARRIER FOR RECHARGE BACK INTO THE GROUND.

   SEE PLAN FOR EXCAVATION PHASES.

   INFILTRATION FROM THE EXCAVATION TO BE PUMPED TO THE SETTLING POND THEN FLOW TO THE HYDRAULIC BARRIER.

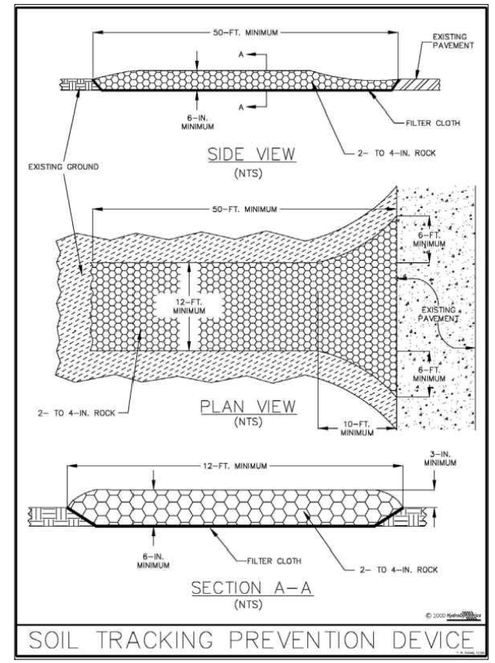
   CONTRACTOR SHALL VISUALLY INSPECT THE SETTLING POND AND HYDRAULIC BARRIER WEEKLY AND REMOVE BUILD UP SAND AND SEDIMENT THAT HAS ACCUMULATED TO THE POINT OF AFFECTING THE FUNCTION OF THE SETTLING POND AND HYDRAULIC BARRIER.
4. WHEN EXCAVATION IS COMPLETE, CEASE DEWATERING OPERATIONS, REMOVE HYDRAULIC BARRIER, AND FINISH GRADE TO THE RECLAMATION DESIGN.





OUTFALL CONTROL STRUCTURE DS-01 TYPE "H"

N.T.S.



Bar Measures 1 inch

SED Southwest Engineering & Design
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Punta Gorda, Florida 33950
Tel. (941) 637-9655 I Fax (941) 637-1149
www.sedfl.com
Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	13-0191.04
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

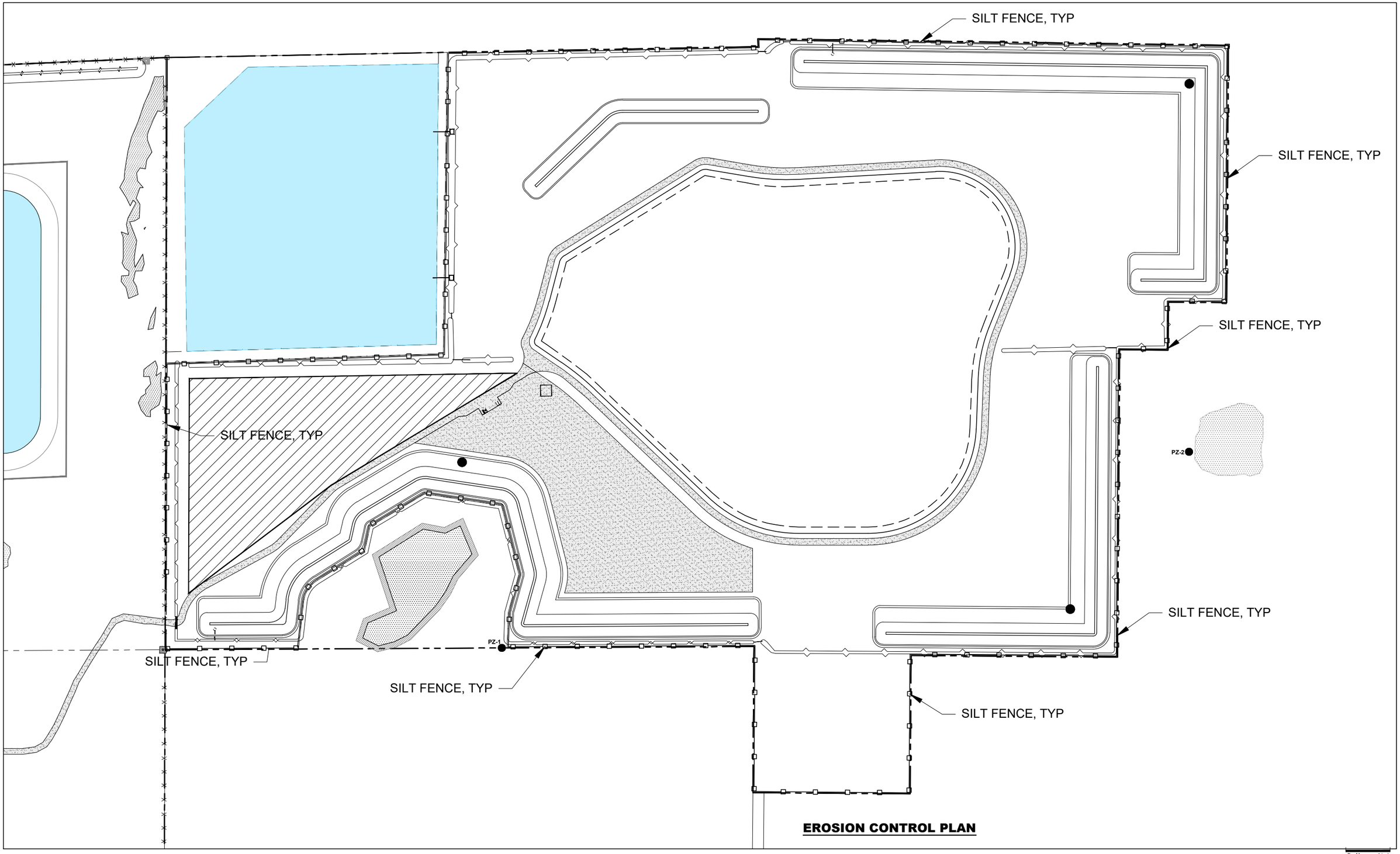
WATERSIDE RESTORATION
BEST MANAGEMENT PRACTICES

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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EROSION CONTROL PLAN

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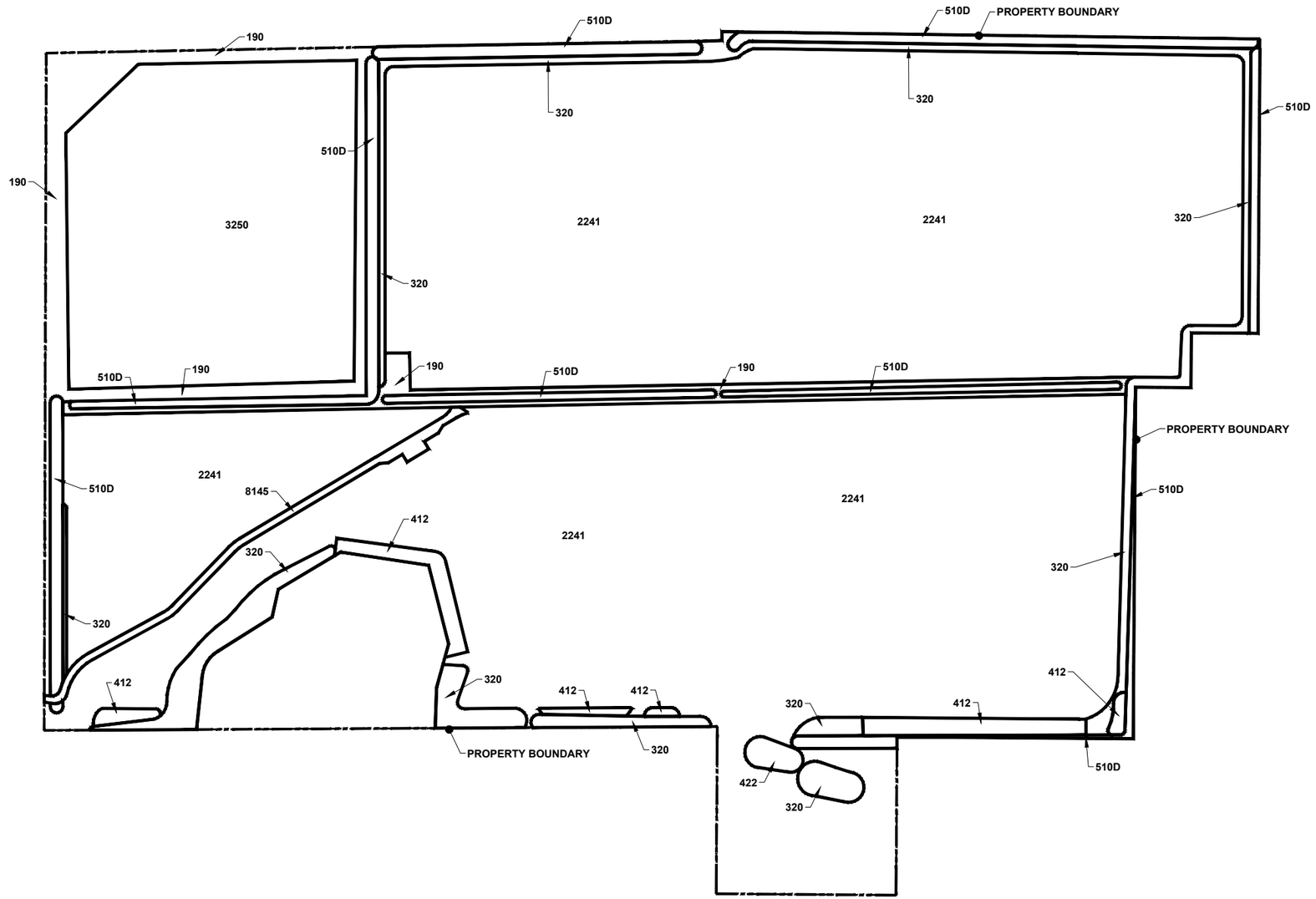
WATERSIDE RESTORATION
BEST MANAGEMENT PRACTICES

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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250 125 0 250

SCALE: 1" = 250' (24x36)
SCALE: 1" = 500' (11x17)

LEGEND

FLUCCS	DESCRIPTIONS	ACREAGE
190	OPEN LAND	12.57±
2241	ABANDONED GROVES - ORANGE	208.83±
320	SHRUB & BRUSHLAND	10.94±
412	LONGLEAF PINE - XERIC OAK	3.34±
422	BRAZILIAN PEPPER	0.54±
510D	DITCH	11.07±
3250	STORMWATER TREATMENT AREA	32.36±
8145	ROADS & HIGHWAYS GRADED AND DRAINED	1.60 ±
	TOTAL	281.25 ±

Bar Measures 1 inch

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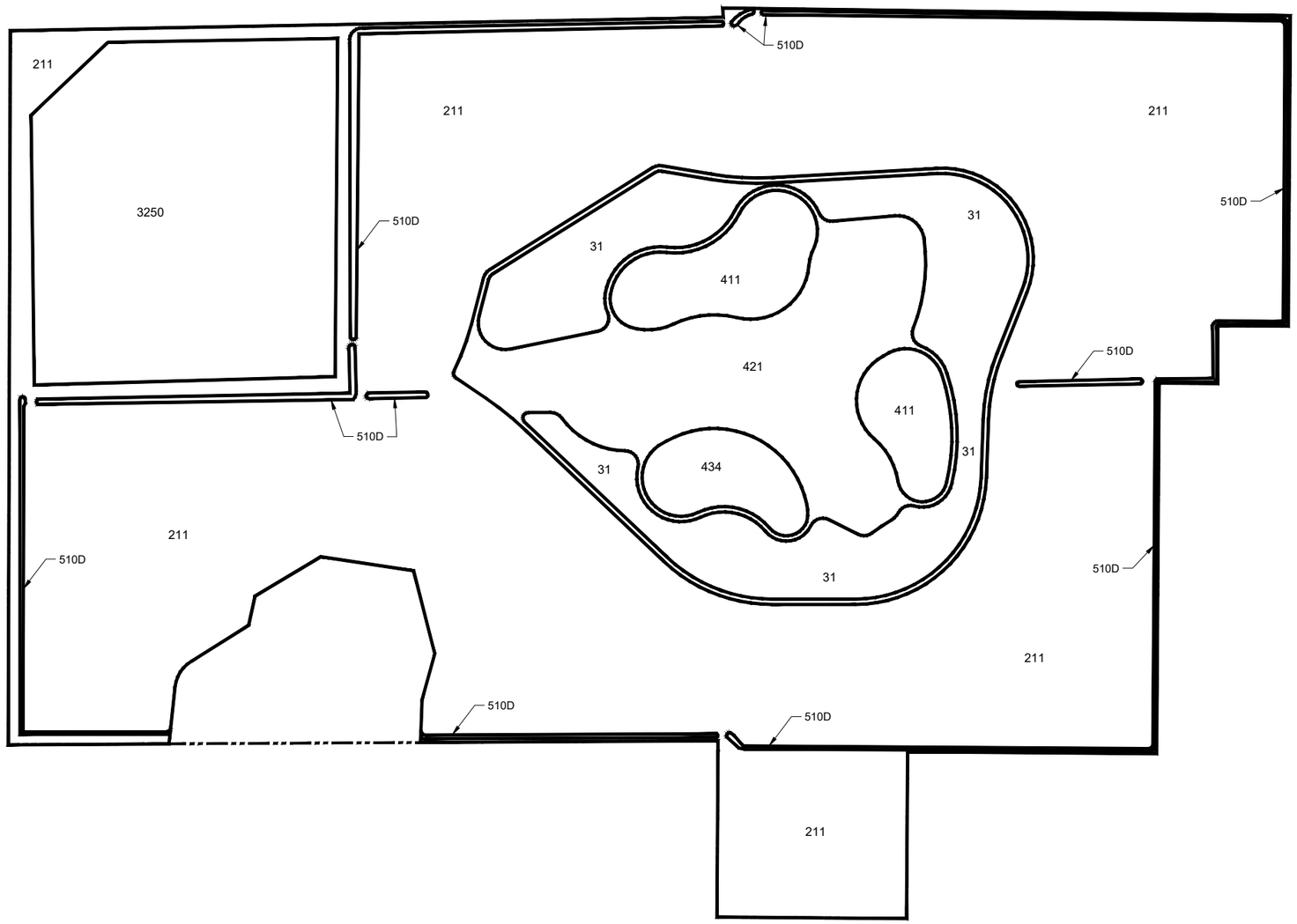
WATERSIDE RESTORATION
PRE FLUCCS MAP

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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250 125 0 250

SCALE: 1" = 250' (24x36)
SCALE: 1" = 500' (11x17)

LEGEND

FLUCCS	DESCRIPTIONS	ACREAGE
211	IMPROVED PASTURE	183.16 ±
31	HERBACEOUS(DRY PRARIE)	23.57 ±
3250	STORMWATER TREATMENT AREA	32.36 ±
411	PINE FLATWOODS	8.89 ±
421	XERIC OAKS	24.51 ±
434	CONIFER MIXED	3.82 ±
510D	DITCH	4.94 ±
	TOTAL	281.25 ±

Bar Measures 1 inch

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Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

WATERSIDE RESTORATION
POST FLUCCS MAP

CHARLOTTE COUNTY SECTION 27, 33, & 34 TOWNSHIP 40 SOUTH, RANGE 24 EAST FLORIDA

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Appendix B – Level of Service Calculations

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2024 HISTORICAL AADT REPORT

COUNTY: 01 - CHARLOTTE

SITE: 4111 - CR 74/BERMONT ROAD, EAST OF US 17/SR 35 CC 111

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2024	8800 F	E 4400	W 4400	9.00	53.50	32.10
2023	8400 C	E 4200	W 4200	9.00	54.70	32.10
2022	5600 E	E		9.00	53.40	5.90
2021	5500 S	E 2700	W 2800	9.00	53.20	31.30
2020	5300 F	E 2600	W 2700	9.00	52.50	31.30
2019	5300 C	E 2600	W 2700	9.00	52.50	31.30
2018	5400 C	E 2600	W 2800	9.00	53.50	33.50
2017	5200 C	E 2500	W 2700	9.00	52.50	36.10
2016	4200 S	E 2100	W 2100	9.00	52.80	31.70
2015	4000 F	E 2000	W 2000	9.00	54.70	31.70
2014	3800 C	E 1900	W 1900	9.00	53.90	31.70
2013	4200 S	E 2000	W 2200	9.00	53.80	24.10
2012	4200 F	E 2000	W 2200	9.00	54.20	24.10
2011	4200 C	E 2000	W 2200	9.00	53.50	24.10
2010	5700 S	E 2900	W 2800	9.91	54.00	3.30
2009	6300 F	E 3200	W 3100	10.02	52.49	3.30

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

CHARLOTTE COUNTY: 2025 ROADWAY LEVEL OF SERVICE DATA

VV SNO	Roadway	Station	From	To	Context Class	Lanes	2025 AADT	Sugg. Gr. Rate	Level of Service Calculations[1]								
									K100	100th Hr Vol.	Level of Service Limits (Pk. Hr. Two-way Vol.)				Level of Service		Percent (%) Capacity Used
											B	C	D	E	Adopted	Current	
43	Cooper Street	152	Carmalita St.	U.S. 17 N	C3R	2-Lane	7,457	2.00%	0.092	686	*	1408	1616	*	D	C	42%
44	Cornelius Blvd	6	SR-776	Biscayne Dr.	C3R	2-Lane	4,952	5.00%	0.092	456	*	1408	1616	*	D	C	28%
45	Cornelius Blvd	263	Biscayne Dr.	U.S. 41	C3R	2-Lane	6,769	5.00%	0.092	623	*	1408	1616	*	D	C	39%
46	CR74/Bermont Road	111	U.S. 17	Happy Hollow Rd	C3R	2-Lane	7,452	5.00%	0.092	686	*	1408	1616	*	D	C	42%
47	CR74/Bermont Road	360	Happy Hollow Rd	SR 31	C2	2-Lane	4,080	3.00%	0.092	375	440	780	1330	2710	D	C	28%
48	CR74/Bermont Road	361	SR 31	County Line	C2	2-Lane	2,613	3.00%	0.092	240	440	780	1330	2710	D	C	18%
49	CR 771	158	Rotonda Blvd E	KeyStone Blvd	C3R	2-Lane	10,650	5.00%	0.092	980	*	1408	1616	*	D	C	61%
50	CR 771	157	Rotonda Blvd E	Ingram Blvd	C3C	4-Lane	18,434	5.00%	0.092	1,696	*	2898	3455	*	D	C	49%
51	CR 771	155	Ingram Blvd	Marathon Blvd	C3C	4-Lane	28,469	5.00%	0.092	2,619	*	2898	3455	*	D	C	76%
52	CR 771	159	Marathon Blvd	SR 776	C3C	4-Lane	25,451	5.00%	0.092	2,341	*	2898	3455	*	D	C	68%
53	CR 775	163	C.R. 771	Boca Grande Causeway	C3R	2-Lane	7,920	5.00%	0.092	729	*	1408	1616	*	D	C	45%
54	CR 775	164	Boca Grande Causeway	Gaspar Dr.	C3R	2-Lane	8,579	5.00%	0.092	789	*	1408	1616	*	D	C	49%
55	CR 775	165	Gaspar Dr.	Cape Haze Dr.	C3R	2-Lane	11,100	5.00%	0.092	1,021	*	1408	1616	*	D	C	63%
56	CR 775	166	Cape Haze Dr.	Esther St.	C3R	2-Lane	7,782	4.00%	0.092	716	*	1408	1616	*	D	C	44%
57	CR 775	141	Esther St.	Rotonda Blvd. W	C3R	2-Lane	12,332	5.00%	0.092	1,135	*	1408	1616	*	D	C	70%
58	CR 775	140	Rotonda Blvd. W	Short St.	C3C	4-Lane	13,252	5.00%	0.092	1,219	*	2898	3455	*	D	C	35%
59	CR 775	128	Short St.	San Casa Dr.	C3C	4-Lane	13,892	5.00%	0.092	1,278	*	2898	3455	*	D	C	37%
60	CR 775	125	Mississippi Ave.	Ainger Creek	C3C	4-Lane	14,522	5.00%	0.092	1,336	*	2898	3455	*	D	C	39%
61	CR 775	126	Ainger Creek	S.R. 776	C3C	4-Lane	15,379	4.00%	0.092	1,415	*	2898	3455	*	D	C	41%
62	Cranberry Blvd	217	U.S. 41	Hillsborough Blvd.	C3R	2-Lane	9,763	3.00%	0.092	898	*	1408	1616	*	D	C	56%
63	David Blvd	210	Lafitte Waterway	Willmington Blvd.	C3R	2-Lane	4,087	5.00%	0.092	376	*	1408	1616	*	D	C	23%
64	Deep Creek Blvd	225	Rio De Janeiro Ave.	Sandhill Blvd.	C3R	2-Lane	7,707	4.00%	0.092	709	*	1408	1616	*	D	C	44%
65	Deep Creek Blvd	264	Rio De Janiero Ave.	Seasons Dr.	C3R	2-Lane	1,655	3.00%	0.092	152	*	1408	1616	*	D	C	9%
66	Easy Street	29	U.S. 41	Olean Blvd.	C3C	2-Lane	2,262	2.00%	0.092	208	*	1104	1560	*	D	C	13%
67	Easy Street	30	Olean Blvd.	Gibralter Dr.	C3R	2-Lane	1,918	3.00%	0.092	176	*	1408	1616	*	D	C	11%
68	Edgewater Drive	7	Flamingo Blvd.	Pellam Blvd.	C3R	2-Lane	5,509	5.00%	0.092	507	*	1408	1616	*	D	C	31%
69	Edgewater Drive	40	Pellam Blvd.	Midway Blvd.	C3R	2-Lane	9,885	3.00%	0.092	909	*	1408	1616	*	D	C	56%
70	Edgewater Drive	39	Midway Blvd.	Lakeview Blvd.	C3R	4-Lane	9,250	5.00%	0.092	851	*	3245	3528	*	D	C	24%
71	Edgewater Drive	38	Lakeview Blvd.	W Tarpon Blvd.	C3R	4-Lane	11,337	3.00%	0.092	1,043	*	3245	3528	*	D	C	30%
72	Edgewater Drive	41	W Tarpon Blvd.	Port Charlotte Blvd.	C3R	4-Lane	10,106	5.00%	0.092	930	*	3245	3528	*	D	C	26%
73	Edgewater Drive	37	Port Charlotte Blvd	Harbor Blvd.	C3R	4-Lane	10,868	3.00%	0.092	1,000	*	3245	3528	*	D	C	28%
74	Edgewater Drive	36	Harbor Blvd	Cousley Dr.	C3R	4-Lane	10,175	3.00%	0.092	936	*	3245	3528	*	D	C	27%
75	Edgewater Drive	34	Cousley Dr.	Gardner Dr.	C3R	4-Lane	10,128	3.00%	0.092	932	*	3245	3528	*	D	C	26%
76	Edgewater Drive	35	Gardner Dr.	U.S. 41	C3R	4-Lane	11,607	3.00%	0.092	1,068	*	3245	3528	*	D	C	30%
77	Education Way	88	Toledo Blade Blvd.	Murdock Circle	C3R	2-Lane	6,062	5.00%	0.092	558	*	1408	1616	*	D	C	35%
78	Elkcam Blvd	43	U.S. 41	Midway Blvd.	C3R	2-Lane	1,533	3.00%	0.092	141	*	1408	1616	*	D	C	9%
79	Elmira Blvd	90	Conway Blvd.	Beacon Dr.	C3R	2-Lane	3,367	3.00%	0.092	310	*	1408	1616	*	D	C	19%
80	Elmira Blvd	91	Beacon Dr.	Kings Highway	C3R	2-Lane	2,473	3.00%	0.092	228	*	1408	1616	*	D	C	14%
81	Flamingo Blvd	8	Edgewater Dr.	Christopher Waterway	C3R	2-Lane	5,254	5.00%	0.092	483	*	1408	1616	*	D	C	30%
82	Flamingo Blvd	9	Christopher Waterway	SR-776	C3R	2-Lane	5,479	5.00%	0.092	504	*	1408	1616	*	D	C	31%
83	Florida Street	172	Carmalita St.	La Villa Rd.	C3R	2-Lane	1,655	3.00%	0.092	152	*	1408	1616	*	D	C	9%
84	Forrest Nelson Blvd	82	U.S. 41	Peachland Blvd.	C3C	2-Lane	4,757	5.00%	0.092	438	*	1104	1560	*	D	C	28%

FDOT District One 2022 LOS Spreadsheet

USER GUIDE

1.0 INTRODUCTION

1.1 OVERVIEW

Level of service (LOS) is a measure by which transportation engineers determine the quality of service on transportation infrastructure (automobile, transit and pedestrian facilities) with quantitative stratification into letters A through F, with A being the best and F being the worst. Two levels of LOS analysis were identified in the Florida Department of Transportation (FDOT) Quality/ Level of Service Handbook (Q/LOS Handbook); 1) Generalized Planning and 2) Conceptual Planning. Generalized planning makes extensive use of statewide default values and is intended for broad applications such as statewide analysis, initial problem identification, and future planning. As such, the LOS Spreadsheets included in this report make use of the LOS determination techniques specified strictly for Generalized Planning purposes.

Every year District One updates a set of roadway parameters and the corresponding roadway LOS information for the 12 counties that form District One. As such, this report deals with the year 2022 LOS update using the generalized service volumes from the **2023 Multimodal Quality/LOS Handbook**. The roadway parameters included in the Year 2022 LOS update are current as of December 31st, 2022.

The following 12 counties (designated County ID) in alphabetical order form District One:

- Charlotte (01)
- Collier (03)
- DeSoto (04)
- Glades (05)
- Hardee (06)
- Hendry (07)
- Highlands (09)
- Lee (12)
- Manatee (13)
- Okeechobee (91)
- Polk (16)
- Sarasota (17)

This report has two components as described in the following paragraphs.

1) Year 2022 LOS Excel Spreadsheets which provide a summary of the existing and future roadway characteristics and the corresponding LOS information. The roadway characteristics and LOS information are provided for the roadway facilities that are active on the State Highway System (SHS) in District One, State of Florida. As part of this annual LOS update, the Daily LOS, Peak Hour Two-Way LOS, and Peak Hour Directional LOS information are provided for each of the 12 counties. In addition, the spreadsheet for each county provides information for Year 2028 Existing plus Committed (E+C) and the Year 2045 planned number of lanes and LOS information.

2) The user guide provides a detailed explanation of the information provided in the LOS spreadsheets, including the sources for input information.

The user guide is provided in Section 2.0 of this report. The LOS spreadsheets are provided in Section 3.0 of this report.

1.2 BACKGROUND

The initial roadway segment information was obtained from the FDOT Central Office. The FDOT Central Office provides information for the roadway segments active on the SHS as part of the statewide update of the roadway LOS. The information includes the state roadway section number, current Annual Average Daily traffic (AADT), existing number of through lanes, posted speed, Strategic Intermodal System (SIS) facilities, and One-way facilities.

2.0 LOS UPDATE USER GUIDE

This LOS update report, in addition to the user guide, contains a LOS spreadsheet for each of the 12 counties in District One identifying generalized LOS information for the roadway segments on the SHS, Generalized Service Volumes (GSV) Database (GSV_Database) sheet lists all the possible combinations of the service volumes (from 2023 Multimodal Q/LOS Handbook - based on context classification), Historical and Current Counts (Hist_Cur_CNTS) sheet containing the historical AADT, current AADT data, and the necessary regression analysis calculations used to project future traffic volumes for the individual count station.

The LOS worksheet provides various roadway characteristics and LOS information for SHS roadway segments obtained from various sources like FDOT Roadway Characteristic Inventory (RCI) Database, 2022 Florida Traffic Online (2022 FTO), and the 2023 Multimodal Q/LOS Handbook. In addition to the current (2022) LOS information, Year 2028 E+C and Year 2045 LOS information are also provided in the LOS Spreadsheets. The GSV from 2023 Multimodal Q/LOS Handbook are provided in **Appendix A** of this report.

The LOS worksheets are divided into three sections. Section 1: *column B* through *column AH* is the existing information section for each roadway segment. Section 2: *column AI* through *column BE* is the information section on the future (Year 2028 and Year 2045) traffic projections and LOS calculations for each roadway segment. Section 3: *Columns BF* through *BH* provide the information on the Standard K factor, existing D and T_{24} factors.

2.1 RESOURCES

The roadway information incorporated into the LOS update spreadsheets for each county is obtained from the following resources.

2.1.1 Central Office LOS Update preliminary sheet*:* This sheet was provided in previous years to the respective districts across the State of Florida for updating the roadway LOS. The basic roadway segmentation provided by the Central Office last year was further refined in the LOS report.

2.1.2 Roadway Characteristics Inventory (RCI): RCI maintained by FDOT is accessed by roadway section number and feature number. Example: through lanes (feature number 212).

2.1.2.1 Straight Line Diagrams (SLD's): The straight-line diagrams are available by county through the external links provided in the RCI Menu. The SLD's are specifically helpful in verifying the through number of lanes, median types and side streets.

2.1.3 Florida Traffic Online website (FTO): The FTO contains the count station information, its location, volume, and map of the count stations. The FTO was used to obtain the existing and historical traffic information for the count stations.

2.1.4 Quality/LOS (Q/LOS) Handbook: The LOS calculations included as part of this study are based on the 2023 Multimodal Q/LOS Handbook.

2.1.5 Highway Capacity Manual (HCM): The Highway Capacity Manual (HCM 7th edition) is a source for terms and definitions.

2.1.6 FDOT Work Program Administration: The FDOT Work Program Administration is accessed by Item/Segment number (8-digit number) to obtain the information on capacity improvement projects that have construction funding within the next five fiscal years. This information was provided by the Department and used to determine the 2028 E+C number of lanes.

2.1.7 FDOT Adopted Work Program Report: The FDOT Adopted Work Program Report (FY 2023/24 – FY 2027/28) is also used to determine the 2028 E+C number of lanes.

2.2 COLUMN DESCRIPTIONS

The following is a detailed description of each column and whether the column information is an input or output in the LOS spreadsheet. The analysis condition (Daily, Peak Hour Two-way and Peak Hour Peak Direction) drop down is located in the title of each of 12 counties spreadsheet in the Cell "AI4". By changing the value of this cell "AI4" in the title, the analysis is updated for all the three analysis years (Existing 2022, 2028 E+C and Long term – 2045).

1. **Section No. (*Column B*):** This is an eight-digit number representing a State Road. The first two digits represent county number, the next three digits represent section number, and the last three digits represent sub-section number. The source for this number is the SLD's and the RCI database.
2. **State Road No. (*Column E*):** This is the state road name for the previously mentioned section number.
3. **Local Road Name (*Column F*):** This is the local road name for Section No. mentioned in Column B. The source for this name is feature 114 from the RCI database.
4. **From (*Column G*):** This indicates the start of a roadway segment generally in text format. It can be a street name, city, county boundary, major landmark, or combination of text and milepost.
5. **From M.P. (*Column H*):** This is the beginning milepost of the section number in number format with three decimals. This number does not always start from zero. Sometimes it starts with a number greater than zero depending on the status of a particular roadway segment.
6. **To (*Column I*):** This indicates the end of the section number generally in text format. It can be a street name, city, county boundary, major landmark, or combination of text and milepost.

7. **To M.P. (*Column J*):** This is the ending milepost of the section number in number format with three decimals.

8. **Section Length (*Column K*):** This determines the difference between the two mileposts ("From M.P" and "To M.P") for each roadway segment.

9. **SIS (*Column M*):** SIS is an acronym for Strategic Intermodal System. It is also determined from RCI database, feature 147. The following abbreviations are used in this column.

    - "SIS": SIS Facility
    - "SC": SIS Connector including SIS Highway Connector and Strategic Growth Highway Connector

10. **Existing Context Classification (*Column N*):** This denotes the existing designation for the roadway as it relates to the roadway's design elements regarding promotion of safety, economic development, and quality of life. It is also determined from RCI database, feature 126. It is to be noted that Context Classification for few (OFF system) segments were provided by the FDOT District One. The existing Context Classification is used in determining the existing 2022 and 2028 E+C roadway LOS. These designations are:

    - C1 (Natural) – Lands preserved in a natural or wilderness condition, including lands unsuitable for settlement due to natural conditions.
    - C2 (Rural) - Sparsely settled lands, may include agricultural land, grassland, woodland, and wetlands.
    - C2T (Rural Town) - Small concentrations of developed areas immediately surrounded by rural and natural areas; includes many historic towns.
    - C3R (Suburban Residential) - Mostly residential uses within large blocks and a disconnected/sparse roadway network
    - C3C (Suburban Commercial) - Mostly non-residential uses with large building footprints and large parking lots. Buildings are within large blocks and a disconnected/sparse roadway network.

- C4 (Urban General) - Mix of uses set within small blocks with a well-connected roadway network. May extend long distances. The roadway network usually connects to residential neighborhoods immediately along the corridor and/or behind the uses fronting the roadway.
- C5 (Urban Center) - Mix of uses set within small blocks with a well-connected roadway network. Typically concentrated around a few blocks and identified as part of the civic or economic center of a community, town, or city.
- C6 (Urban Core) - Areas with the highest densities and building heights and within FDOT classified Large Urbanized Areas (population> 1,000,000). Many are regional centers and destinations. Buildings have mixed uses, are built up to the roadways, and are within a well-connected roadway network.
- LA (Limited Access) - This code (and only this code) is used for roadways with grade separation and limited access such as Interstates and Expressways.

11. **Future Context Classification (*Column O*):** This denotes the future designation for the roadway as it relates to the roadway's design elements regarding promotion of safety, economic development, and quality of life. It is also determined from RCI database, feature 126. It is to be noted that Context Classification for few (OFF system) segments were provided by the FDOT District One. These designations are detailed in the Existing Context Classification (Column N) section above. The future Context Classification is used in determining the long-term 2045 roadway LOS.
12. **Functional Classification (*Column P*):** This indicates the Functional Classification of the roadway and is determined from the RCI database, feature 121. The different types of functional classification as specified in the RCI database are:
    - Principal Arterial – Interstate
    - Principal Arterial – Other

- Minor Arterial
- Major Collector
- Minor Collector
- Local

13. **Posted Speed (*Column Q*):** This indicates the posted speed limit of a predominant portion of the roadway segment. The posted speed limit is determined from RCI database, feature 311.

14. **Area Type (*Column R*):** Area Type is determined from the latest Federal Highway Administration (FHWA) approved urban boundaries. As the transitioning area type no longer exists, this column will be updated further once the Department releases updated area types for roadway segments formerly classified as transitioning. The following abbreviations are used in this column.
    - "UA": Urbanized Areas
    - "TA": Transitioning Areas
    - "RDA": Rural Developed Areas
    - "RUA": Rural Undeveloped Areas.

15. **Facility Type (*Column S*):** Facility type is determined using guidelines specified in the 2023 Multimodal Q/LOS Handbook. It is mainly dependent on the presence of signals on a roadway segment. The combination of this column with Arterial/ Freeway Class will be more logical. The following abbreviations are used in this column. If a roadway segment of length greater than 3.0 miles had one signal, then that segment was considered as Highway facility.
    - "A" is for Arterial (when signals are present on a roadway segment).
    - "H" is for Highway (when there are no signals on a roadway segment).
    - "F" is for Freeway.

16. **FDOT LOS Std. (*Column T, AL & AT*):** This is the FDOT LOS standard (Target) for the section based on Area Type. This is determined from 2023 Multimodal Q/LOS Handbook. This information is provided in **Appendix B** of this report.

17. **County LOS Std. (*Column U*):** This is the County adopted LOS standard for the state roadway segments. This information is obtained from the various sources mentioned in **Table 1**.

18. **City LOS Std. (*Column V*):** This is the city adopted LOS standard for the roadway segments within the city jurisdiction. This information is obtained from the respective City Comprehensive Plans.

Table 1: List of Sources for County LOS Standard

County	Source for County LOS Std.
Charlotte	2021 Charlotte Roadway Level of Service Data
Collier	Collier County 2022 Annual Update and Inventory Report (AUIR)
DeSoto	DeSoto County 2040 Comprehensive Plan Transportation Element – June 2016
Glades	Glades County Traffic Circulation Element – adopted June 2010
Hardee	Hardee County 2030 Comprehensive Plan Transportation Element – November 2014
Hendry	Hendry County Concurrency Management Element and CPA 19-0002
Highlands	Highlands County 2030 Comprehensive Plan Transportation Element – October 2017
Lee	Lee County Public Facilities LOS and Concurrency Report 2022
Manatee	Manatee County Comprehensive Plan – August 2022
Okeechobee	Okeechobee County Comprehensive Plan – June 2016
Polk	Polk County 2022 Roadway Network Database - April 2022
Sarasota	Sarasota County 2019 Generalized LOS Analysis – June 2020

19. **Divided/ Undivided (*Column Z*):** This indicates the median type and is determined from the RCI database feature 120 and is verified with SLD's. The following abbreviations are used in this column.

- "D": Divided Roadway indicating presence of a restrictive or a non-restrictive median.
- "U": Undivided Roadway indicating the absence of a median.
- All the One-way roadway facilities were considered as Undivided (U).

20. **One/Two Way (*Column AA*):** This indicates whether the roadway is two-way (2W) or one-way (1W) roadway facility.

21. **Left Turn Bays (*Column AB*):** This indicates the presence or absence of left turn lanes and is determined from the RCI database, feature 213. The presence of left turn lanes, although for a small portion of the segment is considered as having left turn bays. The following abbreviations are used in this column.

- "WL": With left turn bays.
- "0L": Zero left turn bays.

22. **Right Turn Bays (*Column AC*):** This indicates the presence or absence of right turn lanes and is determined from the RCI database, feature 213. The presence of right turn lanes, although for a small portion of the segment is considered as having right turn bays. The following abbreviations are used in this column.

- "WR": With right turn bays.
- "0R": Zero right turn bays.

For Freeways, the presence of auxiliary lanes is shown in this column. The following observations are used in this column.

- "WA": With one Auxiliary Lane on both sides of the freeway.
- "W1A": With one Auxiliary Lane on one side of the freeway.
- "W2A": With two Auxiliary lanes on both sides of the freeway
- "0A": No Auxiliary Lane.

23. **Thru Lanes (*Column AD*):** This indicates the number of through lanes in 2022 for a roadway segment. It is determined from RCI database, feature 212 and validated with SLD's and sometimes with aerial imagery.

24. **Capacity (*Column AE*):** This column represents the adjusted capacity of roadway for the corresponding FDOT LOS standard in *Column T* and the various input conditions like Existing Context Classification (Column N*)*, Facility Type *(Column S)*, presence of median *(Column Z)*, one-way/2-way (Column AA), left turn bays *(Column AB)*, right turn bays *(Column AC)*, and existing number of lanes *(Column AD)* etc.

25. **2022 Volume (*Column AF*):** This is the Year 2022 volume column displaying the existing volumes (provided by FDOT) based on the selected analysis period from the drop-down menu in the cell "AI4". The drop-down menu provides the Daily, Peak Hour Two Way, and Peak Hour Directional conditions. The Peak Hour Two Way and Peak Hour Directional volumes are calculated using the existing standard K and D factors. It should be noted that the value in this column becomes the output for the "aggregated" segments.

26. **LOS (*Column AG*):** This is a calculated column displaying the existing LOS for the roadway segment based on the existing volume (*Column AF*). The LOS is determined with all the adjustments and characteristic combinations as shown in the GSV_Database sheet of the LOS Workbook.

27. **Deficiency Determination (*Column AH*):** This compares the existing 2022 AADT volumes with the Daily Service Volume and indicates if the roadway is "Over Capacity" or "Near Capacity". If the existing AADT volume exceeds the Daily Service Volume, then the segment is identified as "Over Capacity" and if the AADT volume is equal to or greater than 90 percent of the Daily Service Volume then the segment is identified as "Near Capacity".

28. **2028 E+C Thru Lanes (*Column AK*):** This column shows the existing plus committed number of through lanes by the Year 2028. The roadway widening projects that had construction and design build funding within the next five fiscal years was considered in determining the number of lanes in this column.

29. **Capacity (*Column AM*):** This is the calculated column with service volume value for the corresponding FDOT LOS standard in *Column AL* and the various input conditions like Existing Context Classification (Column N), Facility Type (*Column*

S), presence of median (*Column AN*), left turn bays (*Column AO*), right turn bays (*Column AP*), and 2028 E+C lanes (*Column AK)* etc.

30. **2028 Volume (*Column AQ*):** This is a calculated column displaying the roadway volume for a roadway segment based on the analysis period selected from the dropdown menu. The drop-down menu provides the Daily, Peak Hour Two Way, and Peak Hour Directional conditions. For the daily condition, the 2028 forecasted AADT volume will be displayed based on the regression analysis of historic counts. The Peak Hour Two-Way and Peak Hour Directional volumes are calculated using the Standard K factor and the recommended planning D factors (2023 Multimodal Q/LOS Handbook) and become the output in this column. It should be noted that a minimum annual growth rate of 1% was assumed in case of the regression analysis projecting a negative or less than 1% growth rate.

31. **2028 LOS (*Column AR*):** This is a calculated column displaying the 2028 LOS for the roadway segment based on the 2028 E+C volume (*Column AQ*). The LOS is determined with all the adjustments and characteristic combinations as shown in the GSV_Database sheet of the LOS Workbook.

32. **2045 Thru Lanes (*Column AS*):** This column shows the number of through lanes by the Year 2045 based on the 2045 Cost Feasible Network from District One Regional Planning Model (D1RPM) provided by the Department. The 2045 number of lanes are updated to ensure that at a minimum they are equal to E+C number of lanes.

33. **Capacity (*Column AU*):** This is a calculated column with service volume value for the corresponding FDOT LOS standard in *Column AT* and the various input parameters like Future Context Classification (Column O), Facility Type (*Column S*), presence of median (*Column AV*), left turn bays (*Column AW*), right turn bays (*Column AX*), and 2045 thru lanes (*Column AS*) etc.

34. **2045 Trends Volume (*Column AY*):** This is a calculated column displaying the AADT volume for a roadway segment based on the analysis period selected from the drop-down menu. The drop-down menu provides the Daily, Peak Hour

Two-Way, and Peak Hour Directional conditions. For the daily condition, the 2045 forecasted AADT volume will be displayed based on the regression analysis of historic counts. The Peak Hour Two-Way and Peak Hour Directional volumes are calculated using the Standard K factor and the recommended planning D factors (2023 Multimodal Q/LOS Handbook) and becomes the output in this column. It should be noted that a minimum annual growth rate of 1% was assumed in case of the regression analysis projecting a negative or less than 1% growth rate.

35. **2045 Trends LOS (*Column AZ*):** This is a calculated column displaying the LOS for the roadway segment based on the volume condition displayed in *Column AY* and the number of through lanes as shown in *Column AS*. The LOS is determined with all the adjustments and characteristic combinations as shown in the GSV_Database sheet of the LOS Workbook.

36. **2045 Model Volume (*Column BD*):** This column represents future year 2045 volume obtained from the 2045 D1RPM Cost Feasible Plan Model provided by the Department. The Peak Hour Two Way and Peak Hour Directional volumes are calculated using the Standard K factor and the recommended planning D factors (2023 Multimodal Q/LOS Handbook). It should be noted that the future forecast along few corridors obtained from the D1RPM are found to be lower than the existing volumes. These corridors are highlighted with an asterisk "*".

37. **2045 Model LOS (*Column BE*):** This is a calculated column displaying the LOS for the roadway segment based on the volume condition displayed in *Column BD* and the number of through lanes as shown in *Column AS*. The LOS is determined with all the adjustments and characteristic combinations as shown in the GSV_Database sheet of the LOS Workbook.

38. **Standard K Factor (*Column BF*):** This column displays the Standard K factor adopted (& provided) by the FDOT, to be used in planning level analysis for a given roadway segment.

39. **Existing D Factor (*Column BG*):** This column displays the existing D factor (provided by FDOT) for a given roadway segment. The values are in number format with two decimals.

40. **Existing T_{24} Factor (*Column BH*):** This column displays the existing planning level T_{24} factor (provided by FDOT) for a given roadway segment.

2.3 PROCEDURE FOR AGGREGATING SEGMENTS

The aggregated segments are shown in Yellow color in the county LOS spreadsheets. The sub-segments from which the aggregated segments are obtained are shown in Tan color (hidden). The other segments, which maintain the basic segregation as performed by the Central Office, are shown in White Color. The following is a list of the assumptions considered while aggregating individual sub-segments.

- Aggregation was performed for smaller sub-segments that have similar characteristics with more importance to the area type, existing AADT volumes, number of lanes, context classification, and based on the review of the roadway segments included as part of respective County's concurrency or LOS spreadsheets. However, engineering judgment was used in the case of ambiguous combinations.

- For "Existing context classification", the predominant sub-segment (in section length) existing context classification is shown in the aggregated segment.

- For "Future context classification", the predominant sub-segment (in section length) future context classification is shown in the aggregated segment.

- For Existing Facility Type, the aggregated segment follows the same guidelines as used in the sub-segments.

- For the through number of lanes, the predominant sub-segment (in section length) number of lanes is shown in the aggregated segment.

- For "Posted Speed", the predominant sub-segment (in section length) posted speed is shown in the aggregated segment.

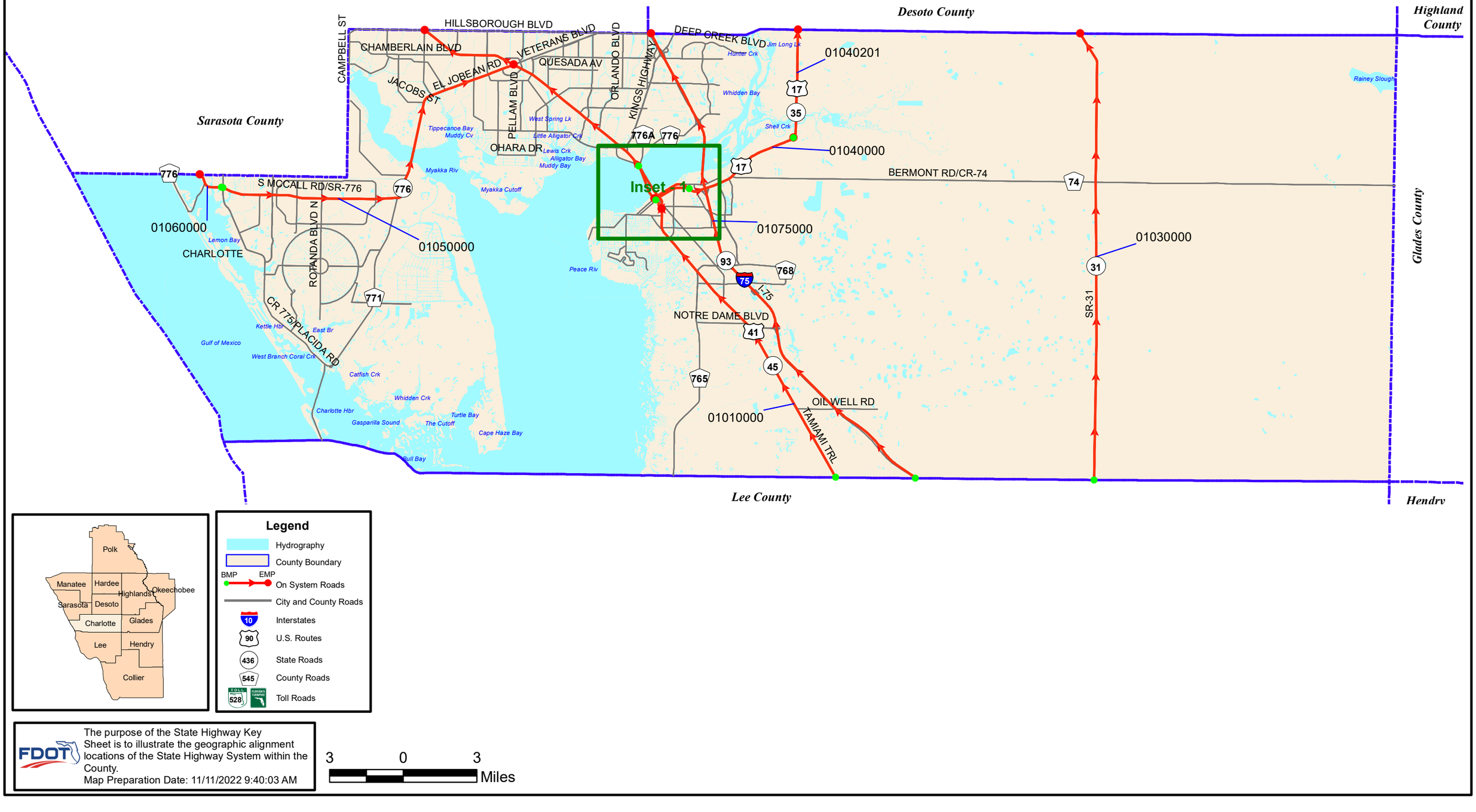
- All the AADT calculations for the aggregated segment are based on the weighted average of AADTs and section lengths of individual sub-segments.
- "No. of Signals" for the aggregated segment is the sum of the sub-segment number of signals.
- For "Divided", the predominant sub-segment (in section length) median type is shown in the aggregated segment.
- For "Left Turn Bays", the aggregated segment is shown as having left turn bays if any of the sub-segments have left turn bays.
- For "Right Turn Bays", the aggregated segment is shown as having right turn bays if any of the sub-segments have right turn bays.

3.0 LOS SPREADSHEETS

This section contains the LOS spreadsheets (Daily, Peak hour two-way, and Peak hour directional) for each of the 12 counties. In addition, keysheet maps illustrating the roadway network and section numbers for each of the 12 counties are also provided.

Charlotte County

State Highway System Key Sheet
Charlotte County



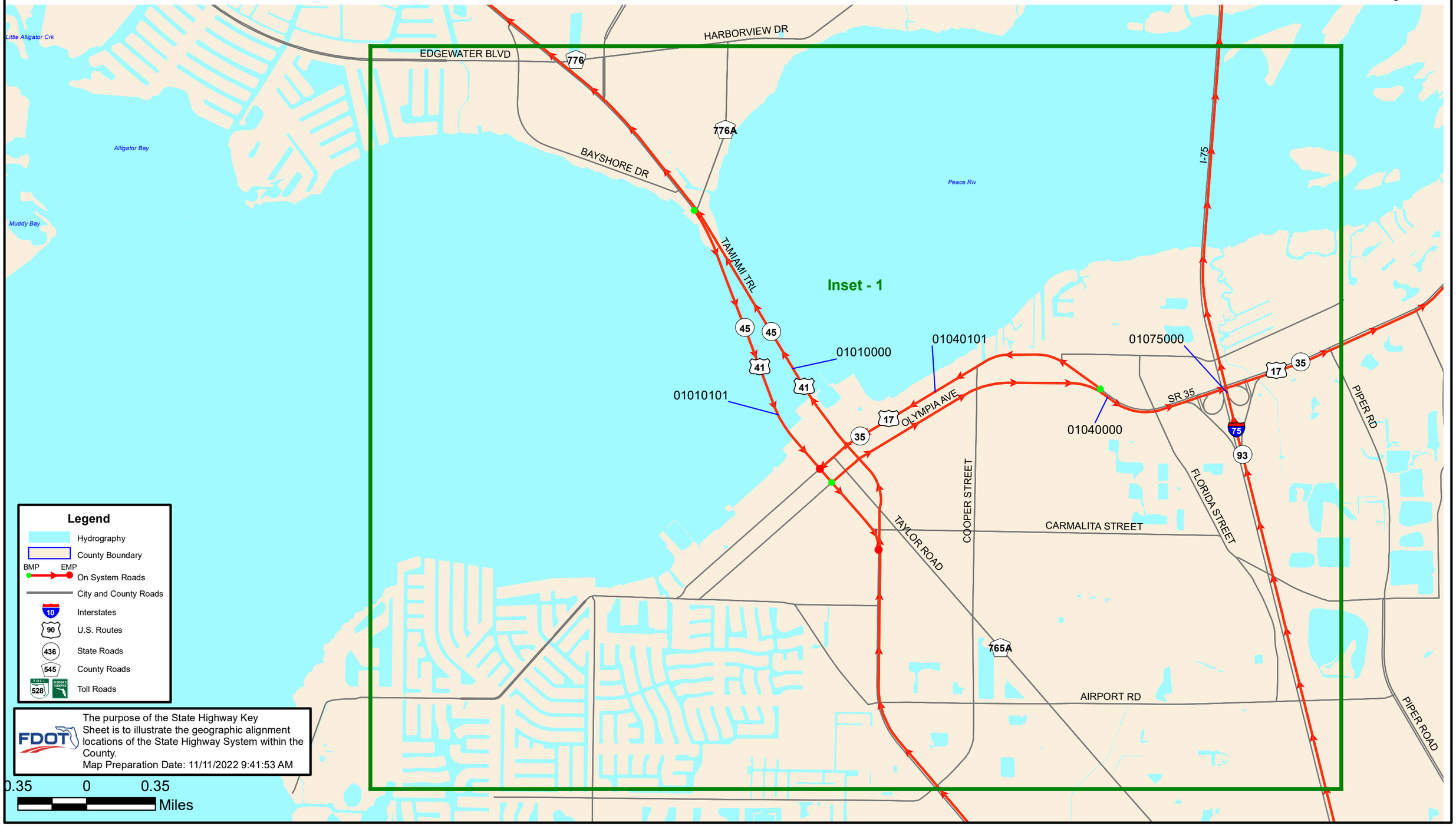
Legend

- Hydrography
- County Boundary
- BMP / EMP — On System Roads
- City and County Roads
- Interstates (10)
- U.S. Routes (90)
- State Roads (436)
- County Roads (545)
- Toll Roads (528)

The purpose of the State Highway Key Sheet is to illustrate the geographic alignment locations of the State Highway System within the County.
Map Preparation Date: 11/11/2022 9:40:03 AM

3 0 3 Miles

State Highway System Key Sheet
Charlotte County - Inset 1



Legend

- Hydrography
- County Boundary
- On System Roads (BMP / EMP)
- City and County Roads
- Interstates (10)
- U.S. Routes (90)
- State Roads (436)
- County Roads (545)
- Toll Roads (528)

The purpose of the State Highway Key Sheet is to illustrate the geographic alignment locations of the State Highway System within the County.
Map Preparation Date: 11/11/2022 9:41:53 AM

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Miles

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -DAILY

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	SIS	Existing Context Class	Future Context Class	Functional Classification	Posted Speed	Area Type	Facility Type	FDOT LOS Std.	County LOS Std.	City LOS Std.	Year 2022								Deficiency Determination
																			Divided/ UnDivided	One/Two Way	Left Turn Bays	Right Turn Bays	Thru Lanes	Daily Capacity	Daily Volume	Daily LOS	
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	45,800	24,000	B	
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	45,800	21,317	B	
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	-	C3C	C3C	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	38,430	21,317	C	
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	-	C3C	C3R	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	38,430	21,317	C	
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	-	C3R	C3R	Principal Arterial-other	50	UA	A	D	D	D	D	2W	WL	WR	4	39,165	15,900	C	
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	-	C3R	C3R	Principal Arterial-other	40	UA	A	D	D	D	D	2W	WL	WR	4	39,165	33,373	C	
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D	D	U	1W	WL	WR	2	23,058	24,655	F	Over Capacity
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	56,805	44,500	C	
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	56,805	44,500	C	
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	56,805	48,705	C	
**	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	56,805	53,214	D	Near Capacity
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	56,805	36,530	C	
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	56,805	31,000	C	
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D		U	1W	0L	WR	2	23,058	27,000	F	Over Capacity
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	-	C3C	C3C	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	32,460	17,500	C	
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	SIS	C2	C2	Minor Arterial	60	TA	H	C			U	2W	0L	WR	2	8,200	12,799	D	Over Capacity
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	8,610	12,799	D	Over Capacity
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	8,610	12,799	D	Over Capacity
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	WL	WR	2	8,200	7,200	C	
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	0L	WR	2	8,200	6,000	C	
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	34,080	10,422	C	
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	56,805	20,600	C	
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	0R	6	54,100	20,600	C	
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	4	38,430	26,500	C	
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	SIS	C3R	C3R	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	39,165	16,600	C	
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	0L	WR	3	35,784	11,664	C	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	SIS	C2	C2	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	55,700	14,700	B	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	SIS	C2	C2	Principal Arterial-other	60	TA	H	C	D		D	2W	WL	WR	4	45,800	12,300	B	
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	38,430	32,762	D	
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	36,600	28,461	C	
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	38,430	26,705	C	
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	-	C3R	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	39,165	33,352	C	
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	36,600	35,000	D	Near Capacity
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	-	C3C	C3C	Minor Arterial	50	UA	A	D	D		D	2W	WL	WR	4	38,430	28,500	C	
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	38,430	29,156	C	
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	SIS	LA	LA	Principal Arterial-Interstate	70	RDA	F	C			D	2W		0A	6	69,000	51,500	C	
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	SIS	LA	LA	Principal Arterial-Interstate	70	TA	F	C			D	2W		0A	6	86,600	59,500	B	
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	122,800	71,016	B	
**	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	122,800	82,000	C	
**	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	122,800	75,000	C	
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	122,800	57,500	B	
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	SC	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	38,430	7,600	C	
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	SC	C3C	C3C	Minor Arterial	45	TA	H	C			D	2W	WL	WR	4	32,235	3,100	C	

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -DAILY

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	Year 2028 (E+C)					Year 2045							Standard K Factor	Existing D Factor	Existing T_{24} Factor
									Thru Lanes	LOS Std	Daily Capacity	Daily Volume	Daily LOS	Thru Lanes	LOS Std	Daily Capacity	Daily Trend Volume	Daily Trend LOS	Daily Model Volume	Daily Model LOS			
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	4	C	45,800	27,900	B	4	C	45,800	38,800	C	40,109	C	9.50%	52.50%	12.60%
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	4	C	45,800	24,000	B	4	C	45,800	31,700	B	36,138	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	4	D	38,430	24,000	C	4	D	38,430	31,700	C	34,043	D	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	4	D	38,430	24,000	C	4	D	39,165	31,700	C	23,528	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	4	D	39,165	16,900	C	4	D	39,165	19,600	C	18,551	C	9.00%	52.50%	10.40%
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	4	D	39,165	37,167	D	4	D	39,165	48,025	F	29,156	C	9.00%	52.50%	6.47%
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	2	D	23,058	26,151	F	2	D	23,058	30,299	F	50,759	F	9.00%	99.90%	5.04%
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	6	D	56,805	47,200	C	6	D	56,805	54,700	D	53,941	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	6	D	56,805	47,200	C	6	D	56,805	54,700	D	52,629	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	6	D	56,805	51,668	D	6	D	56,805	59,928	F	49,510	C	9.00%	52.50%	3.49%
**	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	6	D	56,805	56,428	D	6	D	56,805	65,482	F	51,327	D	9.00%	52.50%	3.31%
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	6	D	56,805	38,699	C	6	D	56,805	44,959	C	39,661	C	9.00%	52.50%	4.52%
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	6	D	56,805	32,900	C	6	D	56,805	38,100	C	46,659	C	9.00%	52.50%	5.00%
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	2	D	23,058	28,600	F	2	D	23,058	33,200	F	31,038	F	9.00%	99.90%	5.70%
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	3	D	32,460	18,600	C	3	D	32,460	21,500	C	17,679	C	9.00%	99.90%	6.00%
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	4	C	45,800	17,200	B	6	C	68,300	29,800	B	73,119	D	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	4	C	45,800	17,200	B	4	C	45,800	29,800	B	71,693	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	2	C	8,610	17,200	E	4	C	45,800	29,800	B	71,693	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	2	C	8,200	9,300	D	2	C	8,200	15,100	E	9,415	D	9.50%	52.10%	30.80%
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	2	C	8,200	7,700	C	2	C	8,200	12,500	D	7,939	C	9.50%	52.10%	45.80%
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	3	D	34,080	11,201	C	3	D	34,080	13,331	C	10,105	C	9.00%	99.90%	5.99%
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	6	D	56,805	22,400	C	6	D	56,805	27,400	C	24,605	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	6	D	54,100	22,400	C	6	D	54,100	27,400	C	31,326	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	4	D	38,430	31,300	C	4	D	38,430	45,000	F	31,326	C	9.00%	54.00%	19.40%
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	4	D	39,165	18,500	C	4	D	39,165	23,900	C	24,332	C	9.00%	54.00%	20.90%
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	3	D	35,784	12,502	C	3	D	35,784	14,835	C	9,084	C	9.00%	99.90%	5.88%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	4	D	55,700	17,900	B	4	D	55,700	26,800	B	17,013	B	9.00%	54.00%	15.90%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	4	C	45,800	15,700	B	4	C	45,800	25,200	B	16,748	B	9.50%	54.00%	18.00%
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	4	D	38,430	34,723	D	4	D	38,430	40,315	F	36,115	D	9.00%	52.30%	4.76%
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	4	D	36,600	32,162	D	4	D	36,600	42,562	F	29,299	C	9.00%	52.30%	6.24%
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	4	D	38,430	31,432	C	4	D	38,430	44,815	F	25,037	C	9.00%	52.30%	7.01%
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	4	D	39,165	38,700	D	4	D	38,430	53,700	F	46,188	F	9.00%	52.70%	8.20%
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	4	D	36,600	40,900	F	4	D	36,600	57,700	F	373,301	F	9.00%	52.30%	8.40%
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	4	D	38,430	32,000	C	4	D	38,430	41,800	F	30,672	C	9.00%	52.30%	9.10%
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	4	D	38,430	30,900	C	4	D	38,430	35,825	D	32,520	D	9.00%	52.30%	2.84%
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	6	C	69,000	58,700	C	6	C	69,000	79,100	D	82,520	D	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	6	C	86,600	69,000	C	6	C	86,600	96,100	D	78,611	C	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	6	D	122,800	82,600	C	6	D	122,800	115,500	D	82,409	C	10.50%	51.80%	16.00%
**	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	6	D	122,800	94,100	C	6	D	122,800	128,400	E	79,577	C	9.00%	51.80%	11.30%
**	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	6	D	122,800	87,200	C	6	D	122,800	121,800	D	74,515	C	9.00%	51.80%	12.20%
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	6	D	122,800	67,200	B	6	D	122,800	94,800	C	75,710	C	9.00%	51.80%	11.80%
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	4	D	38,430	12,200	C	4	D	38,430	25,100	C	3,812	C	9.00%	53.40%	5.40%
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	4	C	32,235	3,300	C	4	C	32,235	3,800	C	15,353	C	9.50%	53.40%	5.40%

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -PEAK HOUR TWO-WAY

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	SIS	Existing Context Class	Future Context Class	Functional Classification	Posted Speed	Area Type	Facility Type	FDOT LOS Std.	County LOS Std.	City LOS Std.	Year 2022							Deficiency Determination
																			Divided/ UnDivided	One/Two Way	Left Turn Bays	Right Turn Bays	Thru Lanes	Peak Hour Two-Way Capacity	Peak Hour Two-Way Volume	Peak Hour Two-Way LOS	
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	4,350	2,280	B	
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	4,350	2,025	B	
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	-	C3C	C3C	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	3,454	2,025	C	
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	-	C3C	C3R	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	3,454	2,025	C	
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	-	C3R	C3R	Principal Arterial-other	50	UA	A	D	D	D	D	2W	WL	WR	4	3,528	1,431	C	
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	-	C3R	C3R	Principal Arterial-other	40	UA	A	D	D	D	D	2W	WL	WR	4	3,528	3,004	C	
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D	D	U	1W	WL	WR	2	2,281	2,219	D	Near Capacity
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	5,114	4,005	C	
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	5,114	4,005	C	
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	5,114	4,383	C	
**	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	5,114	4,789	D	Near Capacity
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	5,114	3,288	C	
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	5,114	2,790	C	
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D		U	1W	0L	WR	2	2,281	2,430	F	Over Capacity
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	-	C3C	C3C	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	3,216	1,575	C	
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	SIS	C2	C2	Minor Arterial	60	TA	H	C			U	2W	0L	WR	2	780	1,216	D	Over Capacity
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	819	1,216	D	Over Capacity
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	819	1,216	D	Over Capacity
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	WL	WR	2	780	684	C	
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	0L	WR	2	780	570	C	
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	3,372	938	C	
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	5,114	1,854	C	
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	0R	6	4,870	1,854	C	
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	4	3,454	2,385	C	
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	SIS	C3R	C3R	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	3,528	1,494	C	
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	0L	WR	3	3,541	1,050	C	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	SIS	C2	C2	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	5,290	1,323	B	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	SIS	C2	C2	Principal Arterial-other	60	TA	H	C	D		D	2W	WL	WR	4	4,350	1,169	B	
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	3,454	2,949	D	
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	3,290	2,561	C	
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	3,454	2,403	C	
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	-	C3R	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	3,528	3,002	C	
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	3,290	3,150	D	Near Capacity
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	-	C3C	C3C	Minor Arterial	50	UA	A	D	D		D	2W	WL	WR	4	3,454	2,565	C	
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	3,454	2,624	C	
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	SIS	LA	LA	Principal Arterial-Interstate	70	RDA	F	C			D	2W		0A	6	7,250	5,408	C	
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	SIS	LA	LA	Principal Arterial-Interstate	70	TA	F	C			D	2W		0A	6	8,490	6,248	B	
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	11,050	7,457	C	
**	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	11,050	7,380	C	
**	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	11,050	6,750	C	
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	11,050	5,175	B	
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	SC	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	3,454	684	C	
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	SC	C3C	C3C	Minor Arterial	45	TA	H	C			D	2W	WL	WR	4	2,898	295	C	

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -PEAK HOUR TWO-WAY

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	Year 2028 (E+C)					Year 2045							Standard K Factor	Existing D Factor	Existing T_{24} Factor
									Thru Lanes	LOS Std	Peak Hour Two-Way			Thru Lanes	LOS Std	Peak Hour Two-Way							
											Capacity	Volume	LOS			Capacity	Trend Volume	Trend LOS	Model Volume	Model LOS			
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	4	C	4,350	2,651	B	4	C	4,350	3,686	C	3,810	C	9.50%	52.50%	12.60%
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	4	C	4,350	2,280	B	4	C	4,350	3,012	B	3,433	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	4	D	3,454	2,280	C	4	D	3,454	3,012	D	3,234	D	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	4	D	3,454	2,280	C	4	D	3,528	3,012	C	2,235	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	4	D	3,528	1,521	C	4	D	3,528	1,764	C	1,670	C	9.00%	52.50%	10.40%
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	4	D	3,528	3,345	D	4	D	3,528	4,322	F	2,624	C	9.00%	52.50%	6.47%
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	2	D	2,281	2,354	F	2	D	2,281	2,727	F	4,568	F	9.00%	99.90%	5.04%
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	6	D	5,114	4,248	C	6	D	5,114	4,923	D	4,854	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	6	D	5,114	4,248	C	6	D	5,114	4,923	D	4,737	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	6	D	5,114	4,650	D	6	D	5,114	5,393	F	4,456	C	9.00%	52.50%	3.49%
**	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	6	D	5,114	5,079	D	6	D	5,114	5,893	F	4,619	D	9.00%	52.50%	3.31%
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	6	D	5,114	3,483	C	6	D	5,114	4,046	C	3,570	C	9.00%	52.50%	4.52%
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	6	D	5,114	2,961	C	6	D	5,114	3,429	C	4,199	C	9.00%	52.50%	5.00%
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	2	D	2,281	2,574	F	2	D	2,281	2,988	F	2,794	F	9.00%	99.90%	5.70%
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	3	D	3,216	1,674	C	3	D	3,216	1,935	C	1,591	C	9.00%	99.90%	6.00%
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	4	C	4,350	1,634	B	6	C	6,490	2,831	B	6,946	D	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	4	C	4,350	1,634	B	4	C	4,350	2,831	B	6,811	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	2	C	819	1,634	E	4	C	4,350	2,831	B	6,811	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	2	C	780	884	D	2	C	780	1,435	E	894	D	9.50%	52.10%	30.80%
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	2	C	780	732	C	2	C	780	1,188	D	754	C	9.50%	52.10%	45.80%
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	3	D	3,372	1,008	C	3	D	3,372	1,200	C	909	C	9.00%	99.90%	5.99%
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	6	D	5,114	2,016	C	6	D	5,114	2,466	C	2,214	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	6	D	4,870	2,016	C	6	D	4,870	2,466	C	2,819	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	4	D	3,454	2,817	C	4	D	3,454	4,050	F	2,819	C	9.00%	54.00%	19.40%
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	4	D	3,528	1,665	C	4	D	3,528	2,151	C	2,190	C	9.00%	54.00%	20.90%
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	3	D	3,541	1,125	C	3	D	3,541	1,335	C	817	C	9.00%	99.90%	5.88%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	4	D	5,290	1,611	B	4	D	5,290	2,412	B	1,531	B	9.00%	54.00%	15.90%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	4	C	4,350	1,492	B	4	C	4,350	2,394	B	1,591	B	9.50%	54.00%	18.00%
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	4	D	3,454	3,125	D	4	D	3,454	3,628	F	3,250	D	9.00%	52.30%	4.76%
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	4	D	3,290	2,895	D	4	D	3,290	3,831	F	2,637	C	9.00%	52.30%	6.24%
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	4	D	3,454	2,829	C	4	D	3,454	4,033	F	2,254	C	9.00%	52.30%	7.01%
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	4	D	3,528	3,483	D	4	D	3,454	4,833	F	4,157	F	9.00%	52.70%	8.20%
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	4	D	3,290	3,681	F	4	D	3,290	5,193	F	33,597	F	9.00%	52.30%	8.40%
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	4	D	3,454	2,880	C	4	D	3,454	3,762	F	2,760	C	9.00%	52.30%	9.10%
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	4	D	3,454	2,781	C	4	D	3,454	3,224	D	2,927	D	9.00%	52.30%	2.84%
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	6	C	7,250	6,164	C	6	C	7,250	8,306	D	8,665	D	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	6	C	8,490	7,245	C	6	C	8,490	10,091	D	8,254	C	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	6	D	11,050	8,673	C	6	D	11,050	12,128	F	8,653	C	10.50%	51.80%	16.00%
**	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	6	D	11,050	8,469	C	6	D	11,050	11,556	E	7,162	C	9.00%	51.80%	11.30%
**	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	6	D	11,050	7,848	C	6	D	11,050	10,962	D	6,706	C	9.00%	51.80%	12.20%
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	6	D	11,050	6,048	B	6	D	11,050	8,532	C	6,814	C	9.00%	51.80%	11.80%
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	4	D	3,454	1,098	C	4	D	3,454	2,259	C	343	C	9.00%	53.40%	5.40%
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	4	C	2,898	314	C	4	C	2,898	361	C	1,459	C	9.50%	53.40%	5.40%

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -PEAK HOUR PEAK DIRECTION

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	SIS	Existing Context Class	Future Context Class	Functional Classification	Posted Speed	Area Type	Facility Type	FDOT LOS Std.	County LOS Std.	City LOS Std.	Year 2022								Deficiency Determination
																			Divided/ UnDivided	One/Two Way	Left Turn Bays	Right Turn Bays	Thru Lanes	Peak Hour Peak Direction			
																								Capacity	Volume	LOS	
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	2,390	1,197	B	
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	-	C2	C2	Principal Arterial-other	65	RDA	H	C	D		D	2W	WL	WR	4	2,390	1,051	B	
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	-	C3C	C3C	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	1,900	1,051	C	
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	-	C3C	C3R	Principal Arterial-other	60	UA	H	D	D		D	2W	WL	WR	4	1,900	1,051	C	
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	-	C3R	C3R	Principal Arterial-other	50	UA	A	D	D	D	D	2W	WL	WR	4	1,942	751	C	
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	-	C3R	C3R	Principal Arterial-other	40	UA	A	D	D	D	D	2W	WL	WR	4	1,942	1,577	C	
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D	D	U	1W	WL	WR	2	2,281	2,217	D	Near Capacity
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	2,814	2,103	C	
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	2,814	2,103	C	
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	2,814	2,302	C	
	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	2,814	2,514	D	
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	-	C3C	C3C	Principal Arterial-other	45	UA	A	D	D		D	2W	WL	WR	6	2,814	1,726	C	
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	2,814	1,465	C	
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	-	C3C	C3C	Principal Arterial-other	45	UA	H	D	D		U	1W	0L	WR	2	2,281	2,428	F	Over Capacity
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	-	C3C	C3C	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	3,216	1,573	C	
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	SIS	C2	C2	Minor Arterial	60	TA	H	C			U	2W	0L	WR	2	430	633	D	Over Capacity
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	452	633	D	Over Capacity
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	SIS	C2	C2	Minor Arterial	60	TA	H	C			D	2W	WL	WR	2	452	633	D	Over Capacity
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	WL	WR	2	430	356	C	
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	SIS	C2	C2	Minor Arterial	60	RDA	H	C			U	2W	0L	WR	2	430	297	C	
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	WL	0R	3	3,372	937	C	
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	-	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	6	2,814	973	C	
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	0R	6	2,680	973	C	
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	SIS	C3C	C3C	Principal Arterial-other	55	UA	A	D	D		D	2W	WL	WR	4	1,900	1,288	C	
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	SIS	C3R	C3R	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	1,942	807	C	
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	-	C4	C4	Principal Arterial-other	35	UA	A	D	D	D	U	1W	0L	WR	3	3,541	1,049	C	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	SIS	C2	C2	Principal Arterial-other	55	UA	H	D	D		D	2W	WL	WR	4	2,910	714	B	
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	SIS	C2	C2	Principal Arterial-other	60	TA	H	C	D		D	2W	WL	WR	4	2,390	631	B	
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	1,900	1,542	C	
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	1,810	1,339	C	
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	1,900	1,257	C	
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	-	C3R	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	WR	4	1,942	1,582	C	
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	-	C3C	C3C	Minor Arterial	55	UA	A	D	D		D	2W	WL	0R	4	1,810	1,647	D	Near Capacity
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	-	C3C	C3C	Minor Arterial	50	UA	A	D	D		D	2W	WL	WR	4	1,900	1,341	C	
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	-	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	1,900	1,373	C	
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	SIS	LA	LA	Principal Arterial-Interstate	70	RDA	F	C			D	2W		0A	6	3,990	2,801	B	
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	SIS	LA	LA	Principal Arterial-Interstate	70	TA	F	C			D	2W		0A	6	4,670	3,236	B	
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	6,080	3,863	C	
	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	6,080	3,823	C	
	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	6,080	3,497	B	
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	SIS	LA	LA	Principal Arterial-Interstate	70	UA	F	D			D	2W		0A	6	6,080	2,681	B	
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	SC	C3C	C3C	Minor Arterial	45	UA	A	D	D		D	2W	WL	WR	4	1,900	365	C	
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	SC	C3C	C3C	Minor Arterial	45	TA	H	C			D	2W	WL	WR	4	1,596	157	C	

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

YEAR 2022 CHARLOTTE COUNTY LEVEL OF SERVICE SPREADSHEET -PEAK HOUR PEAK DIRECTION

	Section No.	State Road No.	Local Road Name	From	From M.P.	To	To M.P.	Section Length	Year 2028 (E+C)					Year 2045							Standard K Factor	Existing D Factor	Existing T_{24} Factor
									Thru Lanes	LOS Std	Peak Hour Peak Direction			Thru Lanes	LOS Std	Peak Hour Peak Direction							
											Capacity	Volume	LOS			Capacity	Trend Volume	Trend LOS	Model Volume	Model LOS			
	01010000	US 41	TAMIAMI TRAIL	Lee County Line	0.000	Zemel Rd	2.339	2.339	4	C	2,390	1,458	B	4	C	2,390	2,027	C	2,096	C	9.50%	52.50%	12.60%
	01010000	US 41	TAMIAMI TRAIL	Zemel Rd	2.339	Morningside Drive	5.562	3.223	4	C	2,390	1,254	B	4	C	2,390	1,656	B	1,888	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Morningside Drive	5.562	Tuckers Grade Blvd	7.013	1.451	4	D	1,900	1,254	C	4	D	1,900	1,656	D	1,779	D	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	Tuckers Grade Blvd	7.013	CR 765A/Taylor Rd	8.583	1.570	4	D	1,900	1,254	C	4	D	1,942	1,656	C	1,229	C	9.50%	51.90%	10.70%
	01010000	US 41	TAMIAMI TRAIL	CR 765A/Taylor Rd	8.583	CR 765/Burnt Store Rd	10.184	1.601	4	D	1,942	837	C	4	D	1,942	970	C	918	C	9.00%	52.50%	10.40%
**	01010000	US 41	TAMIAMI TRAIL	CR 765/Burnt Store Rd	10.184	US 41/Cross St	13.270	3.086	4	D	1,942	1,840	D	4	D	1,942	2,377	F	1,443	C	9.00%	52.50%	6.47%
	01010000	US 41	TAMIAMI TRAIL	US 41/Cross St	13.270	Melbourne St	15.295	2.025	2	D	2,281	2,354	F	2	D	2,281	2,727	F	4,568	F	9.00%	99.90%	5.04%
	01010000	US 41	TAMIAMI TRAIL	Melbourne St	15.295	CR 776/Harbor View Rd	16.314	1.019	6	D	2,814	2,336	C	6	D	2,814	2,708	D	2,670	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	CR 776/Harbor View Rd	16.314	Harbor Blvd	18.177	1.863	6	D	2,814	2,336	C	6	D	2,814	2,708	D	2,605	D	9.00%	52.50%	3.80%
	01010000	US 41	TAMIAMI TRAIL	Harbor Blvd	18.177	Forest Nelson Blvd	20.221	2.044	6	D	2,814	2,558	D	6	D	2,814	2,967	F	2,451	C	9.00%	52.50%	3.49%
	01010000	US 41	TAMIAMI TRAIL	Forest Nelson Blvd	20.221	Murdock Circle	21.548	1.327	6	D	2,814	2,793	D	6	D	2,814	3,242	F	2,541	D	9.00%	52.50%	3.31%
	01010000	US 41	TAMIAMI TRAIL	Murdock Circle	21.548	Toledo Blade Blvd	23.081	1.533	6	D	2,814	1,915	C	6	D	2,814	2,225	C	1,963	C	9.00%	52.50%	4.52%
	01010000	US 41	TAMIAMI TRAIL	Toledo Blade Blvd	23.081	Sarasota County Line	25.946	2.865	6	D	2,814	1,629	C	6	D	2,814	1,886	C	2,310	C	9.00%	52.50%	5.00%
	01010101	US 41	CROSS ST US 41 SB	US 41 (Tamiami Trail)	0.000	Olympia Ave	1.617	1.617	2	D	2,281	2,574	F	2	D	2,281	2,988	F	2,794	F	9.00%	99.90%	5.70%
	01010101	US 41	CROSS ST US 41 SB	Olympia Ave	1.617	US 41 (Tamiami Trail)	2.042	0.425	3	D	3,216	1,674	C	3	D	3,216	1,935	C	1,591	C	9.00%	99.90%	6.00%
	01030000	SR 31	SR 31	Lee County Line	0.000	Cypress Pkwy	0.390	0.390	4	C	2,390	899	B	6	C	3,570	1,557	B	3,820	D	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cypress Pkwy	0.390	Lake Babcock Dr	1.140	0.750	4	C	2,390	899	B	4	C	2,390	1,557	B	3,746	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Lake Babcock Dr	1.140	Cook Brown Rd	2.009	0.869	2	C	452	899	E	4	C	2,390	1,557	B	3,746	F	9.50%	52.10%	19.90%
	01030000	SR 31	SR 31	Cook Brown Rd	2.009	CR 74	12.126	10.117	2	C	430	486	D	2	C	430	789	E	492	D	9.50%	52.10%	30.80%
	01030000	SR 31	SR 31	CR 74	12.126	DeSoto County Line	18.397	6.271	2	C	430	402	C	2	C	430	653	D	415	C	9.50%	52.10%	45.80%
**	01040000	US 17	OLYMPIA AVE	US 41 (Cross St)	0.000	SR 35/US 17 (Marion Ave)	1.532	1.532	3	D	3,372	1,008	C	3	D	3,372	1,200	C	909	C	9.00%	99.90%	5.99%
	01040000	US 17	DUNCAN RD	SR 35/US 17 (Marion Ave)	1.532	I - 75	2.275	0.743	6	D	2,814	1,109	C	6	D	2,814	1,356	C	1,218	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	I - 75	2.275	Copeley Ave	2.558	0.283	6	D	2,680	1,109	C	6	D	2,680	1,356	C	1,551	C	9.00%	52.50%	6.80%
	01040000	US 17	DUNCAN RD	Copeley Ave	2.558	CR 74 (Bermont Rd)	3.436	0.878	4	D	1,900	1,549	C	4	D	1,900	2,228	F	1,551	C	9.00%	54.00%	19.40%
	01040000	US 17	DUNCAN RD	CR 74 (Bermont Rd)	3.436	CR 764 (Washington Loop Rd)	6.425	2.989	4	D	1,942	916	C	4	D	1,942	1,183	C	1,204	C	9.00%	54.00%	20.90%
**	01040101	US 17	MARION AV/SR35/US17W	SR 35/US 17	0.000	US 41 (Cross St)	1.668	1.668	3	D	3,541	1,125	C	3	D	3,541	1,335	C	817	C	9.00%	99.90%	5.88%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	0.000	CR 764 (Washington Loop Rd)	1.673	1.673	4	D	2,910	886	B	4	D	2,910	1,327	B	842	B	9.00%	54.00%	15.90%
	01040201	US 17	US 17/SR 35	CR 764 (Washington Loop Rd)	1.673	DeSoto County Line	4.425	2.752	4	C	2,390	820	B	4	C	2,390	1,317	B	875	B	9.50%	54.00%	18.00%
	01050000	SR 776	MCCALL RD/SR 776	Pine St (CR 775)	2.237	Gulfstream Blvd	4.484	2.247	4	D	1,900	1,719	D	4	D	1,900	1,995	F	1,788	D	9.00%	52.30%	4.76%
	01050000	SR 776	MCCALL RD/SR 776	Gulfstream Blvd	4.484	Sea Mist Dr	7.268	2.784	4	D	1,810	1,592	D	4	D	1,810	2,107	F	1,450	C	9.00%	52.30%	6.24%
**	01050000	SR 776	MCCALL RD/SR 776	Sea Mist Dr	7.268	CR 771 (Gasparilla Rd)	9.403	2.135	4	D	1,900	1,556	C	4	D	1,900	2,218	F	1,239	C	9.00%	52.30%	7.01%
	01050000	SR 776	L JOBEAN RD/MCCALL RD/SR 776	CR 771 (Gasparilla Rd)	9.403	Cornelius Blvd	14.018	4.615	4	D	1,942	1,916	D	4	D	1,900	2,658	F	2,286	F	9.00%	52.70%	8.20%
	01050000	SR 776	EL JOBEAN RD	Cornelius Blvd	14.018	Toledo Blade Blvd	16.449	2.431	4	D	1,810	2,025	F	4	D	1,810	2,856	F	18,478	F	9.00%	52.30%	8.40%
	01050000	SR 776	EL JOBEAN RD	Toledo Blade Blvd	16.449	US 41	17.549	1.100	4	D	1,900	1,584	C	4	D	1,900	2,069	F	1,518	C	9.00%	52.30%	9.10%
	01060000	SR 776	S MCCALL RD/SR 776	CR 775 (Pine St)	9.230	Sarasota County Line	10.385	1.155	4	D	1,900	1,529	C	4	D	1,900	1,773	D	1,610	D	9.00%	52.30%	2.84%
	01075000	I-75	SR 93/I-75	Lee County Line	0.000	CR 762 (Tuckers Grade)	8.543	8.543	6	C	3,990	3,390	C	6	C	3,990	4,568	D	4,766	D	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	CR 762 (Tuckers Grade)	8.543	N Jones Loop Rd	11.812	3.269	6	C	4,670	3,985	C	6	C	4,670	5,550	D	4,540	C	10.50%	51.80%	17.50%
	01075000	I-75	SR 93/I-75	N Jones Loop Rd	11.812	US 17	15.100	3.288	6	D	6,080	4,770	C	6	D	6,080	6,670	F	4,759	C	10.50%	51.80%	16.00%
	01075000	I-75	SR 93/I-75	US 17	15.100	CR 776 (Harbor View Rd)	17.912	2.812	6	D	6,080	4,658	C	6	D	6,080	6,356	E	3,939	C	9.00%	51.80%	11.30%
	01075000	I-75	SR 93/I-75	CR 776 (Harbor View Rd)	17.912	CR 769 (Kings Highway)	21.089	3.177	6	D	6,080	4,316	C	6	D	6,080	6,029	D	3,688	C	9.00%	51.80%	12.20%
	01075000	I-75	SR 93/I-75	CR 769 (Kings Highway)	21.089	Sarasota County Line	22.008	0.919	6	D	6,080	3,326	B	6	D	6,080	4,693	C	3,748	C	9.00%	51.80%	11.80%
**	01000002		Piper Road	N Jones Loop Road	0.000	Airport Rd	1.450	1.450	4	D	1,900	604	C	4	D	1,900	1,242	C	189	C	9.00%	53.40%	5.40%
	01511000		N Jones Loop Road	I-75	5.066	Piper Rd	5.430	0.364	4	C	1,596	172	C	4	C	1,596	199	C	802	C	9.50%	53.40%	5.40%

Legend

Aggregated segment | Single count segment | OFF System SIS Facility

**** Future Model Volumes obtained from D1 Regional Planning Model are found to be less than Existing AADT.**

Note: LOS Spreadsheet should be used as a planning level analysis tool. A detailed analysis is necessary to validate the actual operating conditions (and for future conditions, as needed) which may vary from this worksheet.

Appendix A

Limited Access

Freeway Generalized Service Volume Tables

Peak Hour Directional

	B	C	D	E
2 Lane	2,400	3,170	3,970	4,150
3 Lane	3,390	4,600	5,810	6,130
4 Lane	4,340	6,060	7,700	8,170
5 Lane	5,480	7,450	9,680	10,390
6 Lane	6,630	9,220	11,520	12,760

(Core Urbanized)

	B	C	D	E
2 Lane	2,500	3,300	4,070	4,240
3 Lane	3,570	4,900	6,080	6,360
4 Lane	4,720	6,500	8,090	8,490
5 Lane	5,790	8,020	10,020	10,610

(Urbanized)

	B	C	D	E
2 Lane	2,430	3,180	3,790	3,910
3 Lane	3,520	4,670	5,610	5,870
4 Lane	4,630	6,170	7,440	7,830
5 Lane	5,690	7,640	9,220	9,800

(Transitioning)

	B	C	D	E
2 Lane	2,010	2,770	3,270	3,650
3 Lane	2,820	3,990	4,770	5,470
4 Lane	3,630	5,220	6,260	7,300

(Rural)

Peak Hour Two-Way

	B	C	D	E
4 Lane	4,360	5,760	7,220	7,550
6 Lane	6,160	8,360	10,560	11,150
8 Lane	7,890	11,020	14,000	14,850
10 Lane	9,960	13,550	17,600	18,890
12 Lane	12,050	16,760	20,950	23,200

	B	C	D	E
4 Lane	4,550	6,000	7,400	7,710
6 Lane	6,490	8,910	11,050	11,560
8 Lane	8,580	11,820	14,710	15,440
10 Lane	10,530	14,580	18,220	19,290

	B	C	D	E
4 Lane	4,420	5,780	6,890	7,110
6 Lane	6,400	8,490	10,200	10,670
8 Lane	8,420	11,220	13,530	14,240
10 Lane	10,350	13,890	16,760	17,820

	B	C	D	E
4 Lane	3,650	5,040	5,950	6,640
6 Lane	5,130	7,250	8,670	9,950
8 Lane	6,600	9,490	11,380	13,270

AADT

	B	C	D	E
4 Lane	51,300	67,800	84,900	88,800
6 Lane	72,500	98,400	124,200	131,200
8 Lane	92,800	129,600	164,700	174,700
10 Lane	117,200	159,400	207,100	222,200
12 Lane	141,800	197,200	246,500	272,900

	B	C	D	E
4 Lane	50,600	66,700	82,200	85,700
6 Lane	72,100	99,000	122,800	128,400
8 Lane	95,300	131,300	163,400	171,600
10 Lane	117,000	162,000	202,400	214,300

	B	C	D	E
4 Lane	45,100	59,000	70,300	72,600
6 Lane	65,300	86,600	104,100	108,900
8 Lane	85,900	114,500	138,100	145,300
10 Lane	105,600	141,700	171,000	181,800

	B	C	D	E
4 Lane	34,800	48,000	56,700	63,200
6 Lane	48,900	69,000	82,600	94,800
8 Lane	62,900	90,400	108,400	126,400

Adjustment Factors

Auxiliary Lanes Present in Analysis Direction Adjustment: +1,000
Ramp Metering Present Adjustment: Multiply by 1.05

Auxiliary Lanes Present in Analysis Direction Adjustment: +1,800
Ramp Metering Present Adjustment: Multiply by 1.05

Auxiliary Lanes Present in Analysis Direction Adjustment: +20,000
Ramp Metering Present Adjustment: Multiply by 1.05

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.

Limited Access

Input Parameters

Roadway Characteristics

	Core Urbanized	Urbanized	Transitioning	Rural
Number of Lanes (one direction)	2-6	2.5	2-5	2-4
Posted Speed (mph)	65	70	70	70
Auxiliary Lanes	No	No	No	No
Lane Width (feet)	12	12	12	12
Total Ramp Density (ramps/mile)	1.33	2.67	0.50	0.17
Facility Length (miles)	3	3	6	18
Terrain	Level	Level	Level	Level

Traffic Characteristics

	Core Urbanized	Urbanized	Transitioning	Rural
Planning Analysis Hour Factor (K)	0.085	0.090	0.098	0.105
Directional Distribution Factor (D)	0.55	0.55	0.55	0.55
Peak Hour Factor (PHF)	0.95	0.95	0.92	0.88
Base Free Flow Speed (mph)	70	75	75	75
Heavy Vehicle Percent (%)	4%	4%	9%	12%
Speed Adjustment Factor (SAF)	0.975	0.975	0.975	0.975
Capacity Adjustment Factor (CAF)	0.968	0.968	0.968	0.968

C1 & C2

Motor Vehicle Highway Generalized Service Volume Tables



(C1-Natural & C2-Rural)

Peak Hour Directional

	B	C	D	E
1 Lane	240	430	730	1,490
2 Lane	1,670	2,390	2,910	3,340
3 Lane	2,510	3,570	4,370	5,010

Peak Hour Two-Way

	B	C	D	E
2 Lane	440	780	1,330	2,710
4 Lane	3,040	4,350	5,290	6,070
6 Lane	4,560	6,490	7,950	9,110

AADT

	B	C	D	E
2 Lane	4,600	8,200	14,000	28,500
4 Lane	32,000	45,800	55,700	63,900
6 Lane	48,000	68,300	83,700	95,900

Adjustment Factors

2 Lane Divided Roadway with Exclusive Left Turn Adjustment: Multiply by 1.05
Multilane Undivided Highway with Exclusive Left Turn Adjustment: Multiply by 0.95
Multilane Undivided Highway without Exclusive Left Turn Adjustment:: Multiply by 0.75

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.

C1 & C2

Motor Vehicle Highway Generalized Service Volume Tables

Input Parameters

Roadway Characteristics

	C1	C2
Number of Lanes (one direction)	1	2-3
Posted Speed (mph)	55	55
Base Free Flow Speed (mph)	60	60
Median Type	Undivided	Divided
Shoulder Width (feet)	3	6
Lane Width (feet)	12	12
% No Passing Zone	20%	
Access-Point Density (access/mile)	2	2
Terrain	Level	Level

Traffic Characteristics

	C1	C2
Planning Analysis Hour Factor (K)	0.095	0.095
Directional Distribution Factor (D)	0.55	0.55
Peak Hour Factor (PHF)	0.88	0.88
Heavy Vehicle Percent (%)	5%	10%
Speed Adjustment Factor (SAF)	0.975	0.975
Capacity Adjustment Factor (CAF)	0.968	0.968

C3C & C3R

Motor Vehicle Arterial Generalized Service Volume Tables



(C3C-Suburban Commercial)

Peak Hour Directional

	B	C	D	E
1 Lane	*	760	1,070	**
2 Lane	*	1,520	1,810	**
3 Lane	*	2,360	2,680	**
4 Lane	*	3,170	3,180	**

Peak Hour Two-Way

	B	C	D	E
2 Lane	*	1,380	1,950	**
4 Lane	*	2,760	3,290	**
6 Lane	*	4,290	4,870	**
8 Lane	*	5,760	5,780	**

AADT

	B	C	D	E
2 Lane	*	15,300	21,700	**
4 Lane	*	30,700	36,600	**
6 Lane	*	47,700	54,100	**
8 Lane	*	64,000	64,200	**



(C3R-Suburban Residential)

	B	C	D	E
1 Lane	*	970	1,110	**
2 Lane	*	1,700	1,850	**
3 Lane	*	2,620	2,730	**

	B	C	D	E
2 Lane	*	1,760	2,020	**
4 Lane	*	3,090	3,360	**
6 Lane	*	4,760	4,960	**

	B	C	D	E
2 Lane	*	19,600	22,400	**
4 Lane	*	34,300	37,300	**
6 Lane	*	52,900	55,100	**

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.

C3C & C3R

Motor Vehicle Arterial Generalized Service Volume Tables

Input Parameters

Roadway Characteristics

	C3C	C3R
Number of Lanes (one direction)	1-4	1-3
Posted Speed (mph)	45	45
Facility Length (miles)	3.98	2.57

Traffic Characteristics

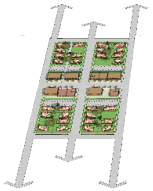
	C3C		C3R	
Planning Analysis Hour Factor (K)	0.09		0.09	
Directional Distribution Factor (D)	0.55		0.55	
Peak Hour Factor (PHF)	0.95		0.92	
Base Saturation Flow Rate	1,950		1,950	
Heavy Vehicle Percent (%)	4		4	
Lane Width	12		12	
Median Type	Non Restrictive (1 lane)	Restrictive (2,3,4 lanes)	Non Restrictive (1 lane)	Restrictive (2,3 lanes)
Roadway Edge Type	Curbed		Flush	
On-Street Parking	None		None	

Control Characteristics

	C3C		C3R
Cycle Length	160		190
Major Street Through g/c	0.5 (1,2,3 lanes)	0.45 (4 lanes)	0.5
Yellow Change Interval	5.1		5.1
Red Change Interval	2		2
Number of Signals	10		5

C2T, C4, C5, & C6

Motor Vehicle Arterial Generalized Service Volume Tables



(C2T-Rural Town)

Peak Hour Directional

	B	C	D	E
1 Lane	*	720	940	**
2 Lane	*	1,140	1,640	**
3 Lane	*	2,120	2,510	**

Peak Hour Two-Way

	B	C	D	E
2 Lane	*	1,310	1,710	**
4 Lane	*	2,070	2,980	**
6 Lane	*	3,850	4,560	**

AADT

	B	C	D	E
2 Lane	*	13,800	18,000	**
4 Lane	*	21,800	31,400	**
6 Lane	*	40,500	48,000	**



(C4-Urban General)

	B	C	D	E
1 Lane	*	*	870	1,190
2 Lane	*	1,210	1,790	2,020
3 Lane	*	2,210	2,810	2,990
4 Lane	*	2,590	3,310	3,510

	B	C	D	E
2 Lane	*	*	1,580	2,160
4 Lane	*	2,200	3,250	3,670
6 Lane	*	4,020	5,110	5,440
8 Lane	*	4,710	6,020	6,380

	B	C	D	E
2 Lane	*	*	17,600	24,000
4 Lane	*	24,400	36,100	40,800
6 Lane	*	44,700	56,800	60,400
8 Lane	*	52,300	66,900	70,900

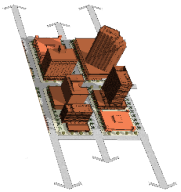


(C5-Urban Center)

	B	C	D	E
1 Lane	*	*	690	1,080
2 Lane	*	1,290	1,900	2,130
3 Lane	*	1,410	2,670	3,110
4 Lane	*	2,910	3,560	3,640

	B	C	D	E
2 Lane	*	*	1,250	1,960
4 Lane	*	2,350	3,450	3,870
6 Lane	*	2,560	4,850	5,650
8 Lane	*	5,290	6,470	6,620

	B	C	D	E
2 Lane	*	*	13,900	21,800
4 Lane	*	26,100	38,300	43,000
6 Lane	*	28,400	53,900	62,800
8 Lane	*	58,800	71,900	73,600



(C6-Urban Core)

	B	C	D	E
1 Lane	*	***	790	1,030
2 Lane	*	***	1,490	1,920
3 Lane	*	***	2,730	2,940
4 Lane	*	***	3,250	3,490

	B	C	D	E
2 Lane	*	***	1,440	1,870
4 Lane	*	***	2,710	3,490
6 Lane	*	***	4,960	5,350
8 Lane	*	***	5,910	6,350

	B	C	D	E
2 Lane	*	***	16,000	20,800
4 Lane	*	***	30,100	38,800
6 Lane	*	***	55,100	59,400
8 Lane	*	***	65,700	70,600

Adjustment Factors

The peak hour directional service volumes should be adjust by multiplying by 1.2 for one-way facilities
The AADT service volumes should be adjusted by multiplying 0.6 for one way facilities 2 Lane Divided Roadway with an Exclusive Left Turn Lane(s): Multiply by 1.05
2 lane Undivided Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.80
Exclusive right turn lane(s): Multiply by 1.05
Multilane Undivided Roadway with an Exclusive Left Turn Lane(s): Multiply by 0.95
Multilane Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.75
Non-State Signalized Roadway: Multiply by 0.90

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.
* Cannot be achieved using table input value defaults.
** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached.

C2T, C4, C5, & C6

Motor Vehicle Arterial Generalized Service Volume Tables

Input Parameters

Roadway Characteristics

	C2T	C4	C5	C6
Number of Lanes (one direction)	1-3	1-4	1-4	1-4
Posted Speed (mph)	40	45	35	30
Facility Length (miles)	0.78	1.83	1.18	0.74
Number of Signals	4	9	9	7

Traffic Characteristics

	C2T	C4	C5	C6
Planning Analysis Hour Factor (K)	0.095	0.09	0.09	0.09
Directional Distribution Factor (D)	0.55	0.55	0.55	0.55
Peak Hour Factor (PHF)	0.92	0.95	0.95	0.95
Base Saturation Flow Rate	1,700	1,950	1,950	1,950
Heavy Vehicle Percent (%)	5	3	2	2
Lane Width	11	11	10	10
Median Type	Non Restrictive	Non Restrictive	Non Restrictive	Non Restrictive
Roadway Edge Type	Curb	Curb	Curb	Curb
On-Street Parking	50%	100%	100%	100%

Signal Characteristics

	C2T	C4		C5		C6	
Cycle Length	90	170		150		120	
Major Street Through g/c	0.47	0.52 (1,2,3 lanes)	0.47 (4 lanes)	0.55 (1,2,3 lanes)	0.48 (4 lanes)	0.52 (1,2,3 lanes)	0.46 (4 lanes)
Yellow Change Interval	4.4	4.8		4		3.7	
Red Change Interval	2	2		2		2	

Appendix B

10 | Florida's LOS Policy

FDOT aims to plan, design, and operate the SHS at an acceptable LOS for the traveling public. LOS targets are consistent with FDOT's Policy on Level of Service Targets for the SHS, Topic No. 000-525-006. The policy outlines the motorized vehicle LOS target for urbanized areas and outside urbanized areas. The motorized vehicle-mode LOS targets for the SHS during peak travel hours are LOS D in urbanized areas and LOS C outside of urbanized areas. FDOT shall work with local governments to establish appropriate LTS targets for multimodal mobility and system design. The targets shall be responsive to all users according to context, roadway function, network design, and user safety.

10.1 Support of Local Government Transportation LOS Policies

Local governments can, but are not required, to extend concurrency requirements to transportation facilities. If concurrency is applied to transportation facilities, the local government comprehensive plan must provide the principles, guidelines, standards, and strategies, including adopted levels of service to guide its application. (F.S. 163.3180[5(a)]). Local governments are encouraged to develop tools and techniques to complement the application of transportation concurrency such as:

- Adoption of long-term strategies to facilitate development patterns that support multimodal solutions, including urban design, and appropriate land use mixes, including intensity and density.
- Adoption of an areawide LOS not dependent on any single road segment function.
- Exempting or discounting impacts of locally desired development, such as development in urban areas, redevelopment, job creation, and mixed use on the transportation system.
- Assigning secondary priority to vehicle mobility and primary priority to ensuring a safe, comfortable, and attractive pedestrian environment, with convenient interconnection to transit.
- Establishing multimodal LOS standards that rely primarily on nonvehicular modes of transportation where existing or planned community design will provide adequate level of mobility.
- Reducing impact fees or local access fees to promote development within urban areas, multimodal transportation districts, and a balance of mixed-use development in certain areas or districts, or for affordable or workforce housing.

Appendix C – Email communication with Southwest Engineering and Design

Outlook

Re: TIS Waterside Update

From Gary Bayne <gbayne@sedfl.com>
Date Mon 2/16/2026 5:40 PM
To Reed McKown <r.mckown@sedfl.com>; Laura Rossi <lrossi@proteandg.com>
Cc Robert Berntsson <rberntsson@bigwlaw.com>; Todd Davis <tdavis@proteandg.com>

Laura just use the numbers I stated before

The cubic yards for land debris truck size is 33.5

For mulch really it was for hurricane Ian 2022/2023 were 100 cubic yards trucks. That was a one off
People don't bring us mulch anymore That was for the Hurricane Ian only.

Dirt is the dirt number.

I am fine if you use the average truck size for land debris and mulch 33.5 cy. It's not going to affect the numbers.

Not much

Get Outlook for iOS

From: Reed McKown <r.mckown@sedfl.com>
Sent: Monday, February 16, 2026 5:31:42 PM
To: Gary Bayne <gbayne@sedfl.com>; Laura Rossi <lrossi@proteandg.com>
Cc: Robert Berntsson <rberntsson@bigwlaw.com>; Todd Davis <tdavis@proteandg.com>
Subject: Re: TIS Waterside Update

Laura has the correct number. 1,146,402 CY

Thanks,
Reed McKown, P.E.

Southwest Engineering & Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
Phone: 941-637-9655
Fax: 941-637-1149
www.sedfl.com

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From: Gary Bayne <gbayne@sedfl.com>
Sent: Monday, February 16, 2026 4:40:34 PM
To: Laura Rossi <lrossi@proteandg.com>
Cc: Robert Berntsson <rberntsson@bigwlaw.com>; Reed McKown <r.mckown@sedfl.com>; Todd Davis <tdavis@proteandg.com>
Subject: RE: TIS Waterside Update

Reed can you confirm the yards coming out of the excavation

Gary W. Bayne, P.E.
President
Southwest Engineering & Design
25450 Airport Road, Suite B
Punta Gorda, Florida 33950
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From: Laura Rossi <lrossi@proteandg.com>
Sent: Monday, February 16, 2026 4:18 PM
To: Gary Bayne <gbayne@sedfl.com>
Cc: Robert Berntsson <rberntsson@bigwlaw.com>; Reed McKown <r.mckown@sedfl.com>; Todd Davis <tdavis@proteandg.com>
Subject: FW: TIS Waterside Update

Gary,

Please confirm the proposed volume calculations highlighted below are correct and to be used in the TIS.

Thank you!

Laura Rossi, PE, PTOE
protean design group, inc.
941.676.8448 x402 office| 352.339.3417 cell

From: Laura Rossi
Sent: Sunday, February 15, 2026 10:55 PM
To: Gary Bayne <gbayne@sedfl.com>
Cc: Robert Berntsson <rberntsson@bigwlaw.com>; Reed McKown <r.mckown@sedfl.com>; Todd Davis <tdavis@proteandg.com>
Subject: RE: TIS Waterside Update

Gary,

Please confirm the volume of dirt being excavated and then the volume of debris being brought into backfill the location. See below and correct me if these have changed. Also, provide a timeframe for the excavation vs backfill.

1,146,402 CY for the volume of soil to be excavated
1,146,402 CY (1.4) = 1,604,988 CY of yard waste

I have traditionally used 16 CY trucks to do the truck volume calculation for soil. The email attached references the current trucks are carrying 33.5 CY. Are you intending for me to use this same volume per truck for the soil calculations or just for yard waste? And if I am using these larger trucks, what kind of trucks are these so I can reference them within my report.

In the previous TIS I am modifying, I provided 5 years of truck volumes. Do you have 2020 to 2025 to provide in support of existing traffic volumes?

Provide the site plan showing the excavation and backfill volumes for reference within my report.

Thank you!

Laura Rossi, PE, PTOE

protean design group, inc.
941.676.8448 x402 office| 352.339.3417 cell

From: Gary Bayne <gbayne@sedfl.com>
Sent: Thursday, February 5, 2026 10:48 AM
To: Robert Berntsson <rberntsson@bigwlaw.com>; Laura Rossi <lrossi@proteandg.com>
Cc: Reed McKown <r.mckown@sedfl.com>
Subject: RE: TIS Waterside Update

Phase 1

I have to submit for Final Site Review first then it goes to the board for Final PD Approval

Phase 2
Is the modification to the overall. We are adding in the Excavation Area (EM Zoning) Agricultural Future LandUse and a piece they bought from Randy zoned AG. Those are being added to the Overall Waterside Development RCMU category – So that will be a major mod. We can submit that the following month

But I need Phase 1 ASAP

Gary W. Bayne, P.E.
President
Southwest Engineering & Design
25450 Airport Road, Suite B
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Fax: 941-637-1149
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From: Gary Bayne <gbayne@sedfl.com>
Sent: Thursday, February 5, 2026 9:13 AM
To: Laura Rossi
Cc: Reed McKown; Robert Berntsson
Subject: RE: TIS Waterside Update

Laura,

Just checking to see if you need anything else . Looking to submit late next week. Thanks

Gary

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

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Fax: 941-637-1149

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Laura,

Not much to this narrative we are not adding anymore density to this project. The entitlements for residential are staying the same. Commercial did go up from 7.7 to 8.1 to the minimum. I have a attached the previous PD and ordinance in case you needed them

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

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From: Laura Rossi <lrossi@proteandg.com>
Sent: Monday, February 02, 2026 12:16 PM
To: Gary Bayne <gbayne@sedfl.com>
Cc: Reed McKown <r.mckown@sedfl.com>; Robert Berntsson <rberntsson@bigwlaw.com>
Subject: RE: TIS Waterside Update

Gary,

I need a narrative for Phase 2 that matches your permit application with detail. I have received comments before when my report does not follow exactly what the application is proposing. This includes a specific build out year, unit types, number of units. Please provide a written narrative explaining what is planned.

Thank you!

Laura Rossi, PE, PTOE

protean design group, inc.

941.676.8448 x402 office| 352.339.3417 cell

From: Gary Bayne <gbayne@sedfl.com>
Sent: Monday, February 2, 2026 12:08 PM
To: Laura Rossi <lrossi@proteandg.com>
Cc: Reed McKown <r.mckown@sedfl.com>; Robert Berntsson <rberntsson@bigwlaw.com>
Subject: RE: TIS Waterside Update

Here is the exhibit for Phase 2 the Development (Page 2)

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

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From: Gary Bayne
Sent: Monday, February 02, 2026 12:05 PM
To: 'Laura Rossi' <lrossi@proteandg.com>
Cc: Reed McKown <r.mckown@sedfl.com>; Robert Berntsson <rberntsson@bigwlaw.com>
Subject: RE: TIS Waterside Update

Here is the Narrative of Phase 1

Phase 2 is just a development that would come after Phase 1 approximately 5 to 7 years later. I sent you an example of the one next door and the time frames of build out.

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

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From: Laura Rossi <lrossi@proteandg.com>
Sent: Monday, February 02, 2026 12:01 PM
To: Gary Bayne <gbayne@sedfl.com>
Cc: Reed McKown <r.mckown@sedfl.com>; Robert Berntsson <rberntsson@bigwlaw.com>
Subject: RE: TIS Waterside Update

Gary,

Please provide narratives explaining the Phase 1 and Phase 2 in detail so I can write a proposal for exactly what is planned that will match the applications you will be submitting.

Thank you!

Laura Rossi, PE, PTOE

protean design group, inc.

941.676.8448 x402 office| 352.339.3417 cell

From: Gary Bayne <gbayne@sedfl.com>
Sent: Monday, February 2, 2026 11:29 AM
To: Laura Rossi <lrossi@proteandg.com>
Cc: Reed McKown <r.mckown@sedfl.com>; Robert Berntsson <rberntsson@bigwlaw.com>
Subject: RE: TIS Waterside Update

So just to confirm

Phase 1 (Final PD) – is for the Reclamation area and berms. You Should have those daily trips from us on both dirt and Recycling

Phase 2 – which is Future is the Development itself where we have 1479 units going in.

Is this going to be in one report or do you think they need to be separate?

Also please confirm the timeframe. We are running almost 2 years behind and owners are quite anxious

Gary

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

Thanks,

Reed McKown, P.E.

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

Phone: 941-637-9655

From: Gary Bayne <gbayne@sedfl.com>
Sent: Monday, December 15, 2025 12:03 PM
To: Reed McKown <r.mckown@sedfl.com>; Laura Rossi <lrossi@proteandg.com>
Subject: RE: TIS Waterside Update
Importance: High

Laura

So, for the yard waste I would use the following numbers

Same Cubic yards for the restoration area 1,146,420 x 1.4 (compaction rate) = 1,604,988 cubic yards

For the trucks average size for the past 6 months have been

51757 cubic yards 1543 #trucks = 33.5 cubic yards per truck

Therefore, total number of trucks would be 1,604,988 cubic yards /33.5 cubic yards per truck = 47,910 trucks

Now we did 1543 trucks in 6 months – that will continue during and long after the dirt trucks are gone until the lake is filled in 15.5 years to fill in (unless we get a hurricane or we lowered the prices to speed it up)

Second Proposal

For the other proposal when total reclamation is done it is 1479 residential units

Reed,

Can you send Laura the plan for Reclamation Area and also the plan for the subdivision

Also do not use the County numbers we want new traffic counts done

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

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From: Reed McKown <r.mckown@sedfl.com>
Sent: Monday, December 15, 2025 11:39 AM
To: Gary Bayne <gbayne@sedfl.com>; Laura Rossi <lrossi@proteandg.com>
Subject: RE: TIS Waterside Update

Laura,

The new quantity to use is 1,146,402CY

Thanks,

Reed McKown, P.E.

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

Phone: 941-637-9655

From: Gary Bayne <gbayne@sedfl.com>
Sent: Monday, December 15, 2025 10:52 AM
To: Laura Rossi <lrossi@proteandg.com>
Cc: Reed McKown <r.mckown@sedfl.com>
Subject: RE: TIS Waterside Update

Reed,

Can we get Laura the new numbers – Thanks

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

25450 Airport Road, Suite B

Punta Gorda, Florida 33950

Voice: 941-637-9655

Fax: 941-637-1149

www.sedfl.com

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From: Laura Rossi <lrossi@proteandg.com>
Sent: Monday, December 15, 2025 10:44 AM
To: Gary Bayne <gbayne@sedfl.com>
Subject: TIS Waterside Update

Gary,

FYI if you would like a proposal for this work please send me the information this week. I will be out for a little more than two weeks (Dec 25 through Jan 6) and will not be able to provide the proposal during that time.

Thank you!

Laura Rossi, PE, PTOE

protean design group, inc.

941.676.8448 x402 office| 352.339.3417 cell

From: Gary Bayne <gbayne@sedfl.com>
Sent: Thursday, October 30, 2025 10:36 AM
To: Laura Rossi <lrossi@proteandg.com>
Subject:

Laura,

I need an update to this TIS. So , it needs to reflect the worst case condition which is an excavation and then backfilling it with mulch and compost so the truck count has changed However, we are only going 13 feet deep now and backfilling the rest This would be the worst case scenario The other case is we leave it as a lake and do not backfill it, but we do backfill the berms around the perimeter of the site More than likely that is what's going to happen. Do you need the cubic yards of both scenarios?

Gary W. Bayne, P.E.

President

Southwest Engineering & Design

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