Quible

Quible & Associates, P.C. ENGINEERING • ENVIRONMENTAL SCIENCES • PLANNING • SURVEYING SINCE 1959 P.O. Drawer 870 Kitty Hawk, NC 27949 Phone: 252-491-8147 Fax: 252-491-8146 web: quible.com

December 13, 2023

Ms. Jennie Turner, CFM Currituck County Planning & Community Development 153 Courthouse Road, Suite 110 Currituck, North Carolina 27949

Re: Major Site Plan Application Athletic Facility – 1555 Waterlily Rd Coinjock, Currituck County, North Carolina

Ms. Turner,

On behalf of 85 and Sunny, LLC, Quible & Associates, P.C. hereby submits for your review the enclosed digital Major Site Plan application package for the subject referenced project located at 1555 Waterlily Rd, Coinjock, Currituck County.

The following digital documents are included and shall be considered part of this submittal package:

- 1. A review fee of \$400 (4,000 sf x \$0.10 per sf) made payable to "Currituck County";
- 2. A stormwater review escrow fee of \$5,500 made payable to "Currituck County";
- 3. One (1) copy of the signed Major Site Plan Application with Major Site Plan Submittal Checklist;
- 4. One (1) Copy of the Stormwater SW-002 Form;
- 5. One (1) copy of Lighting Specification cut sheets;
- 6. One (1) copy of the Site Plan, including Landscaping;
- 7. One (1) copy of the Architectural Elevations & Floor Plan;
- 8. One (1) copy of the Needed Fire Flow computation;
- 9. One (1) copy of the Site Narrative and associated calculations;
- 10. One (1) copy of the 50 Year Drought Memo;
- 11. One (1) copy of the Geotechnical Report for the Athletic Facility;
- 12. One (1) copy of the DRAFT NCDEQ Stormwater Application;
- 13. One (1) copy of the DRAFT NCDEQ SESC Application;
- 14. One (1) CD containing digital copies of all the documents and plans.

At your earliest convenience, please review and do not hesitate to contact me at (252) 491-8147 or ndashti@quible.com should you have any questions or require any additional information.

Sincerely, Quible & Associates, P.C.

Encl.: as stated Cc: 85 and Sunny, LLC



Major Stormwater Plan Form SW-002

Review Process

Contact Information

Currituck County Planning and Community Development 153 Courthouse Road, Suite 110 Currituck, NC 27929 Phone: 252.232.3055 Fax: 252.232.3026

Website: http://www.co.currituck.nc.us/planning-community-development.cfm

Currituck County Engineering Department 153 Courthouse Road, Suite 302 Currituck, NC 27929 Phone: 252.232.6035

General

Major stormwater plan approval is required for:

- Major subdivisions.
- Major site plans development or expansion on a nonresidential, multi-family, or mixed use lot by 5,000 square feet or more of impervious coverage or resulting in 10% or more total impervious coverage.

Step 1: Application Submittal

The applicant must submit a complete application packet consisting of the following:

- Completed Currituck County Minor Stormwater Plan Form SW-002 (unless submitting a major subdivision or major site plan).
- Completed Rational Method Form SW-003 or NRCS Method Form SW-004.
- Stormwater management plan drawn to scale. The plan shall include the items listed in the major stormwater plan design standards checklist.
- Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable.
- NCDENR permit applications, if applicable.
- Number of Copies Submitted:
 - 3 Copies of required plans
 - 3 Hard copies of ALL documents
 - 1 PDF digital copy (ex. Compact Disk e-mail not acceptable) of all plans AND documents.

On receiving an application, staff shall determine whether the application is complete or incomplete. A complete application contains all the information and materials listed above, and is in sufficient detail to evaluate and determine whether it complies with appropriate review standards. An application for major stormwater plan must be submitted and approved prior altering an existing drainage system, performing any land disturbing activity or, before construction documents are approved.

Step 2: Staff Review and Action

Once an application is determined complete staff shall approve, approve subject to conditions or disapprove the application.

Majar Stormwater Plan SW-002 Page 1 of 4

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Major Stormwater Plan Form SW-002

APPLICANT:	85 AND SUNNY LLC	PROPERTY OW	Same
Name:	9919 Stephen Decatur Hwy	Name:	
Address:	Ocean City, MD 21842	Address:	
	410 213 1900 x 1181		
Telephone:	adomarco@bwde.com	Telephone:	
E-Mail Address	s:	E-Mail Address	
Property Inform	nation		
Physical Street	Address: 1555 Waterlily Rd		
Parcel Identific	ration Number(s): 0079000004A0	000	
	AE, X & shaded X		
FEMA FIOOD ZO	one Designation:		
Request			
Project Descrip	Athletic Facility - 1555 Waterlily	/ Rd	
Total land dist	urbance activity: 263.008 sf	Calculated vol	ume of BMPs: 41,145 CF sf
Maximum lot c	overgge: 4,037,358.6 sf	Proposed lot c	overage: <u>129,600 sf</u>
TYPE OF REQU	JEST	e -	
Major	subdivision (10-year, 24-hour rate)		
Major	site plan (5-year, 24-hour rate)		
METHOD USE	D TO CALCULATE PEAK DISCHARGE		
Ration	al Method		
	Method (TR-55 and TR-20)		
	e volume calculation for small sites (le	ss than 10 acres)	
□ Altern	ative stormwater runoff storage anal	ysis	
	sream arainage capacity analysis		
l hereby auth information su	orize county officials to enter my p bmitted and required as part of this p	property for purpose process shall become	es of determining compliance. All public record.
	6		12/12/2022
			1-115100-5

Major Stormwater Plan SW-002 Page 2 of 4

OFFICIAL USE ONLY: Permit Number: _____ Date Filed: _____ Date Approved: _____ Major Stormwater Plan Design Standards Checklist

The table below depicts the design standards of the major stormwater plan application. Please make sure to include all applicable listed items to ensure all appropriate standards are reviewed.

Major Stormwater Plan

Design Standards Checklist

Date Received: ____

Project Name: Athletic Facility - 1555 Waterlily Rd

Applicant/Property Owner: 85 AND SUNNY LLC

Min	or Stormwater Plan Design Standards Checklist				
	General				
1	Property owner name and address.	 ✓ 			
2	Site address and parcel identification number.	 ✓ 			
3	North arrow and scale to be 1" = 100' or larger.	 ✓ 			
	Site Features				
4	Scaled drawing showing existing and proposed site features:				
	Property lines with dimensions, acreage, streets, easements, structures (dimensions and				
	square footage), fences, bulkheads, septic area (active and repair), utilities, vehicular use	•			
	areas, driveways, and sidewalks.				
5	Approximate location of all designated Areas of Environmental Concern (AEC) or				
	other such areas which are environmentally sensitive on the property, such as Maritime	✓			
	Forest, CAMA, 404, or 401 wetlands as defined by the appropriate agency.				
6	Existing and proposed ground elevations shown in one foot intervals. All elevation				
	changes within the past six months shall be shown on the plan.				
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	 ✓ 			
9	Square footage of all existing and proposed impervious areas (structures, sidewalks,				
	walkways, vehicular use areas regardless of surface material), including a description	 ✓ 			
	of surface materials.				
10	Existing and proposed drainage patterns, including direction of flow.				
11	Location, capacity, design plans (detention, retention, infiltration), and design	1			
	discharge of existing and proposed stormwater management features.	•			
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	 ✓ 			
13	Plant selection.	✓			
	Permits and Other Documentation				
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	✓			
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land	1			
	disturbance).				
16	NCDENR coastal area management act permit application, if applicable.	N/A			
17	Stormwater management narrative with supporting calculations.	 ✓ 			
18	Rational Method Form SW-003 or NRCS Method Form SW-004	N/A			
19	Alternative stormwater runoff storage analysis and/or downstream drainage capacity				
	analysis, if applicable				
20	Design spreadsheets for all BMPs (Appendix F – Currituck County Stormwater Manual).	 ✓ 			
21	Detailed maintenance plan for all proposed BMPs.				

	Certificate
22	The major stormwater plan shall contain the following certificate:
	I, Todd E. BW buskmer/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.
	On the plan entitled Athletic Facility - 1955 Waterlily Fid , stormwater drainage improvements shall be installed according to these plans and specifications and approved by Currituck
	County. Yearly inspections are required as part of the stormwater plan. The owner is responsible for all maintenance required. County assumes no responsibility for
	the design, maintenance, or performance of the stormwater improvements. Date: 12 13 2023 Owner/Agent:

Major Stormwater Plan Submittal Checklist

Staff will use the following checklist to determine the completeness of your application. Please make sure all of the listed items are included. Staff shall not process an application for further review until it is determined to be complete.

Major Stormwater Plan Form SW-002

Submittal Checklist

Date Received: ____

Project Name: Athletic Facility - 1555 Waterlily Rd

Applicant/Property Owner: 85 AND SUNNY LLC

Maj	jor Stormwater Plan Form SW-002 Submittal Checklist	
1	Completed Major Stormwater Plan Form SW-002	1
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	N/A
3	Stormwater plan	1
4	NCDENR permit applications, if applicable	N/A
5	3 copies of plans	N/A
6	3 hard copies of ALL documents	N/A
7	1 PDF digital copy of all plans AND documents (ex. Compact Disk – e-mail not acceptable)	1

Comments

Major Stormwater Plan SW-002 Page 4 of 4

super brightleds.com

WPA Series

LED Wall Pack Specifications



Features

- 120-277 VAC
- L70 rated 50,000 hour lifetime
- IP65 rated water resistance
- 0–10 V dimming
- Full cutoff design
- Adjustable angle for precise aiming

Construction

Manufactured with a durable aluminum housing and polycarbonate lens.

Application

Easily replaces inefficient metal-halide fixtures such as those found in warehouses, parking lots and garages, gas stations, and other commercial and industrial spaces. These are also a great solution for entryways and other areas where good lighting is essential for security.

Output Equivalencies		
WPA-xK12-W	50 W metal-halide	
WPA-xK35-W	175W metal-halide	
WPA-xK75-W	320 W metal-halide	
WPA-xK120-W	400 W metal-halide	

Warranty

Five (5) Year Warranty

Certifications and Compliances

These lights are UL Listed in compliance with UL 1598 (IFAM) and are listed as DLC Premium.





T 866.811.5550 F 314.972.6202 email: commercial-sales@superbrightleds.com www.superbrightleds.com/cat/industrial-led-lighting/

Project_____ Date_____Type_____

Available Models¹



Photometrics - Beam Angle



Additional model-specific photometric data available on site or upon request.

¹Contact customer service if interested in options other than those listed.

Rev V1 Date: 10/20/2019 Specifications are subject to change without notice. Printed in the U.S.A.

superbrichtleds.com

WPA Series

LED Wall Pack Specifications

Dimensional Drawing









WPA-xK120-W



Model WPA-	xK12-W xK35-W	xK75-W	xK120-W
	in.	10.9 in.	13 in.
A	(204 mm)	(278 mm)	(330 mm)
	6.5 in.	8.5 in.	10.5 in.
В	(165 mm)	(215 mm)	(267 mm)
6	5.9 in.	8.2 in.	9.9 in.
	(150 mm)	(207 mm)	(251 mm)
D	8.9 in.	12.1 in.	14.2 in.
	(226 mm)	(306 mm)	(361 mm)
_	3.2 in.	4 in.	4.4 in.
E	(81 mm)	(100 mm)	(110 mm)
	4.1 in.	4.6 in.	5.1 in.
	(98 mm)	(114 mm)	(130 mm)
6	4.3 in.	6 in.	8 in.
G	(108 mm)	(151 mm)	(202 mm)

WPA-xK75-W

Specifications Model WPA-xK12-W WPA-xK35-W Intensity 1,560 lm 4,550 lm

Intensity	1,560 lm	4,550 lm	9,750 lm	15,600 lm	
Operating Voltage	120-277 VAC				
Power Consumption	12 W	35 W	75 W	120 W	
Current Draw	0.1 A @120 VAC	0.29 A @120 VAC	0.63 A @120 VAC	1 A @120 VAC	
Efficacy		130 lm/W			
Color Temperature		3000K or 5000K (as ordered)			
Beam Angle	100° x 75° (NEMA 6 x NEMA 5)				
CRI	70+				
Dimming		0-10 V			
IP Rating	IP65				
Ambient Operating Temperature		-40°-122° F (-40°-50° C)			
Product Weight	3.2 lb ((1.5 kg)	5 lb (2.3 kg)	7 lb (3.2 kg)	
Rated Life (L70)	50,000 hours				



Operations ISO Fire Flow Worksheet

	Sample				
Needed Fire Flow	Work Sheet (ISO formulas)				NFF = (Ci)(Oi)(Xi+Pi)
					C=18F(Ai)^0.5
Address:	Waterlily Road, Currituck County, NC				
Project Name:	Athletic Facility		Occupancy 1	Гуре:	C-2
Construction Type:	Typical wood construction		Number of S	stories:	1
0755 4			· · ·		
STEP 1	Take the area, which is 100% sq. ft. of the first floor plu	is the follow	ving percenta	ge	
	of the total area of the other floors.				
	First Floor	1951	15a Et @ 10	00/	
	Buildings classified as construction classes LIV: 25% c	f all other f	loors	/0 /0	
	Buildings classified as construction classes V-VI: 50%	of all other	floors		
			10013		
	Total other floors	0	1		
	Total Area All	1851	1		
		1001			
STEP 2	Take the Square Root of the Area	43			
	Now mulitiply by "F", which is the coefficient for the cor	nstruction ty	/pe:		
			•		
	F = Coefficient related to the class of construction as d	etermined I	by using the		
	construction type found in SBCCI				
	Construction Type	Class	F Value		
	Frame	VI	1.5		
	Joist Masonry	VI	1		
	Non-combustible	IV	0.8		
	Heavy Timber		0.8		
	Modified fire resistance		0.6		
	Fire resistive		0.6		
	E. Malwa Calentari	4 5	1		
	F Value Selected	1.5	4		
	Square Root of the Area x F x 19	1162			
		1102	- C value		
STEP 3	Round off the C value to the nearest 250 GPM (round	un or down)		
··· ·	C values ranging from	Use	ί		
	500 to 625	500	1		
	626 to 875	750	1		
	876 to 1125	1000	1		
	1126 to 1375	1250	1		
	1376 to 1625	1500	1		
	1626 to 1875	1750			
	1876 to 2125	2000			
	2126 to 2375	2250			
	2376 to 2625	2500			
	2626 to 2876	2750	1		
	2876 to 3125	3000	4		
	3126 to 3375	3250	4		
	Rounded to the nearest 250 GPM	1250			

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ISO Fire Flow Worksheet Sample Continued

STEP 4	Multiply result of rounded off GPM by the Occupancy Factor (Oi)	Occupancy Factor
	Noncombustible (C-1) = No active fuel loads such as storage of asbestos, clay, glass, marble, stone, or metal products.	0.75
	Limited - Combustible (C-2) = Limited fuel loads such as airports, apartments, art studios, auto repair, auto showroom, aviaries, banks, barber shops, beauty shops, churches, clubs, cold storage warehouses, day care center, educational occupancies, gas stations, green houses, health clubs, hospitals, jails, libraries, medical labs, motels, museums, nursing homes, offices, radio stations, recreation centers, and rooming houses.	0.85
	Combustible (C-3) = Moderate fuel loads such as auto part stores, auto repair training center, bakery, bookstores, bowling centers, casinos, commercial laundries, contractor equipment storage, dry cleaners with no flammable fluids, leather processing, municipal storage buildings, nursery sales stores, pavilions, pet shops, photographic supplies, printers, restaurants, shoe repair, supermarkets, theaters, vacant buildings, and most wholesale & retail sales ocuppancies.	1.0
	Free-Burning (C-4) = Active fuel loads such as aircraft hangers, cabinet making, combustible metals, dry cleaners using flammable fluids, feed stores, furniture stores, kennels, lumber, packaging and crating, paper products manufacturing, petroleum bulk distribution centers, tire manufacturers, tire recapping or retreading, wax products, and wood working shops.	1.15
	Rapid-Burning (C-5) = Contents that burn with great intensity, spontaneously ignite, have flammable or explosive vapors, or large quantities of dust such as ammunition, feed mills, fireworks, flammable compressed gases, flammable liquids, flour mills, highly flammable solids, matches, mattress factories, nitrocellulose-based products, rag storage, upholstery shops, & waste paper storage.	1.25
	Occupancy Factor Selected0.85Rounded GPM x Oi1062.5	

ISO Fire Flow Worksheet Sample Continued

SIEFS	Now consider the exposure factor (XI) - (Separation b	etween build	ings)	
	Distance (feet to the exposed building)	Lengtn- Height	Frame (Xi)	
	0-10	80-100	0.126	
		101-200	0.14	
		201-300	0.14	
	11-20	80-100	.098	
		101-200	0.126	
		201-300	0.14	
	21-30	80-100	0.056	
		101-200	0.098	
		201-300	0.126	
	31-40	80-100	0.028	
		101-200	0.07	
		201-300	0.098	
	Distance Selected	100		
	Xi (from table)	0		
	*Length-Height Ratio is less than 80' Multiply GPM from step 4 by (1+Xi) 1062.5 x (1+0)			
	Fire flow required	1063		
STED 6	Annual Size Sprinkley System Credit	00/		
SIEPO	Approved Fire Sprinkler System Credit	0%		
	Take fire flow from step 5 and multiply by sprinkler cr	edit of 0.25 266		
	Now subtract sprinkler credit from fire flow in step 5			
	Fire Flow Required	796.875	N/A	
STEP 7	Take value from step 6 and Round to nearest 250 gpm under 2.500 gpm			
	Round to nearest 500 gpm over 2,500 gpm			
	Round to nearest 500 gpm over 2,500 gpm	1000		
Notice: Fire hydra	Round to nearest 500 gpm over 2,500 gpm Needed Fire Flow nt distribution requirements are based on distance from	1000 fire hydrant t	o the structu	ure. The
Notice: Fire hydra following restrictic	Round to nearest 500 gpm over 2,500 gpm Needed Fire Flow It distribution requirements are based on distance from It flow apply:	1000 fire hydrant t	o the structu	ure. The
Notice: Fire hydra following restrictic	Round to nearest 500 gpm over 2,500 gpm Needed Fire Flow It distribution requirements are based on distance from Ins for fire flow apply: Distance from hydrant to structure	1000 fire hydrant t Max Flow	o the structu Credit (gpn	ure. The n per hydrant
Notice: Fire hydra following restrictic	Round to nearest 500 gpm over 2,500 gpm Needed Fire Flow nt distribution requirements are based on distance from ns for fire flow apply: Distance from hydrant to structure Within 300 feet 301 to 600 feet	1000 fire hydrant t Max Flow 1,000 670	o the structu Credit (gpn	ure. The n per hydrant
Notice: Fire hydra following restrictic	Round to nearest 500 gpm over 2,500 gpm Needed Fire Flow nt distribution requirements are based on distance from ns for fire flow apply: Distance from hydrant to structure Within 300 feet 301 to 600 feet 601 to 1.000 feet	1000 fire hydrant t Max Flow 1,000 670 250	o the structu Credit (gpn	ure. The n per hydrant



SITE PLAN NARRATIVE Athletic Facility – 1555 Waterlily Rd Coinjock, Currituck County, North Carolina

Prepared for: 85 AND SUNNY, LLC 9919 Stephen Decatur Hwy Ocean City, MD 21842

Prepared by: Quible & Associates, P.C. PO Drawer 870 Kitty Hawk, NC 27949

> December 14, 2023 P16099

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Appendices

Appendix A – On-site Soils Report and Memo Appendix B - Stormwater Calculations

Overview

The subject property is located at 1555 Waterlily Road, Corolla, NC in Currituck County. The applicants propose to construct an athletic facility consisting of a swimming pool, associated decking, 900 sf mechanical building serving the pool, 1,860 sf bathhouse, pickleball court, fitness walking/jogging paths, and associated utilities and required infrastructure as shown on the attached plan set. The property is zoned Single Family Mainland (SFM) and athletic facilities are permitted use.

Access

The athletic facility would be accessed from Waterlily Road.

A loading space is not required per Currituck County UDO, Section 5.1.8. for this use. However, if needed, the open drive aisle opposite of the swimming pool entrance could be utilized for loading (and designated, if required) as it would not block any through traffic along the adjacent drive aisle and parking.

Parking

The Currituck County UDO does not provide a parking schedule for this use. Therefore, an alternative parking plan is being provided at the request of the Director based upon anticipated parking demands. The applicant owns and operates similar facilities and based on their understanding of parking needs and the proposed use, 98 parking spaces would be adequate. The relevant maximum occupant capacity used to calculate parking needs for each use is 200 swimmers, 16 pickle ball players, and 10 employees at peak shift. Based on maximum occupancy numbers and assuming one parking space for every 3 swimmers, 1 parking space per pickle ball player, and 1 parking space per employee. Using these figures, a total of 98 parking spaces are needed and 102 are provided.

Lighting

Use of the facility is during daytime only, and as such no parking lot or other exterior lighting is proposed other than security lighting being provided at the buildings as required. The site lighting plan consists of the provided full cut off lighting fixture submittals for the required security lighting.

Soils

The USDA NRCS Soil Survey lists the soil in the vicinity of the stormwater infiltration and wet retention basins as described below. Geotechnical reports for the site indicate the seasonal high-water table is approximately at elevation 3.7. A copy of on-site soils analysis are provided within **Appendix A**. On-site soils analysis was performed by Hardin-Kight Associates, Inc.

 BoA – Bojac Loamy Sand This soil typically has 0 to 3 percent slopes. Bojac Loamy Sand typically has a very low runoff rate and is well drained. This soil is categorized in Hydrologic Soil Group: A

Stormwater Management Plan

Per 15A NCAC 02H.1005 (a) (3) (B) High Density Coastal Development is required to meet particular criteria. This development is proposed to have 0.96% of impervious coverage within the existing parcel. The proposed infiltration basin onsite is designed in accordance with

NCDEQ Requirements and is designed to store, control, and treat the stormwater runoff from all surfaces, within its drainage area, generated by the one and one-half inch of rainfall event. The majority of stormwater runoff from the project area is proposed to be directed to the proposed wet retention basin designed in accordance with NCDEQ requirements. The basin has been designed to capture runoff into a forebay prior to the main pond which stores, controls, and treats stormwater runoff from the 5-year post-development storm event to the 2-year pre-development wooded condition. In addition to these requirements, a minimum of 50' vegetative buffer from surface waters is provided.

Collection

Runoff from the proposed access drive will be directed into grassed roadside swales which flow down gradient to a cross-culvert and into the wet retention basin forebay. Runoff from the southern portion of the proposed swimming pool deck and pickle ball court area will be collected into grassed swales which flow gently toward the cross-culvert and into the forebay, allowing for infiltration and uptake along its path. The parking and vehicular area is to be collected and conveyed to the proposed wet detention basin via sheet flow whereby the parking area drains to a centralized flowline prior to being directed into the forebay. Runoff draining from the proposed buildings will be directed into the proposed infiltration swales that ultimately flow into the wet retention basin forebay.

<u>Treatment</u>

The proposed system will offer several methods of treatment prior to release.

Runoff from concrete deck areas will sheet flow over vegetation (grass) and be directed to the wet detention basin The grassed areas will provide the first level of treatment for these areas and will provide filtration of small particulates and nutrients prior to entering the wet detention basin.

The primary treatment of runoff from the northern portion of swimming pool decking will be provided within a dry infiltration basin and a wet retention basin. The infiltration basin bottom and side slopes will be grassed according to general seeding specifications. The runoff will undergo filtration of fine particulates and pollutants by the vegetation within the basin. The filtration by vegetation is considered the primary method of treatment. A secondary method of treatment is also available when the stormwater runoff infiltrates into the subsurface. The soil particles between the basin bottom and the season high water table (SHWT) will offer additional filtration and/or absorption of particulates and pollutants prior to reaching the water table. The seasonal high water table (SHWT) is at an elevation of 3.7'. Separation of greater than 18" between the seasonal high-water table and the bottom of the basin has been provided, a supporting soils analysis has been provided to justify the 1' of separation.

The remainder and majority of the project area will be managed by the proposed wet retention basin. The wet basin is designed with a forebay which initially receives incoming runoff from multiple directions to allow for energy dissipation and initial settling prior to entering the main pond. The entire wet retention basin is designed to have vegetative shelving and a depth adequate to allow for some sedimentation. The overall depth of the basin allows for water quality treatment but also doubles as fire protection storage volume for a proposed dry hydrant.

<u>Storage</u>

The proposed infiltration basin has been sized to allow for a local requirement of routing the 5year post developed condition back to the 2-year predeveloped wooded condition. This storage capacity is in excess of the State required 1.5 inch storage of impervious surface runoff. The temporary storage capacity has been calculated between the bottom of the basin and the overflow spillway invert elevation. In addition to the above grade storage for State water quality, the County's stormwater storage is also accounted for within the subsurface soil voids below the bottom of the basin and seasonal high water elevation.

The majority of the stormwater storage volume is provided within the proposed wet retention basin. The temporary storage volume is computed within the basin above the main pool elevation of 3.7'. The County stormwater storage volume requirement based upon routing the 5-year post-development rainfall event to the 2-year pre-development wooded condition is approximately 25,805 CF. The proposed wet retention basin provided storage volume is approximately 41,145 CF, equivalent to the 7.4 inch rainfall event.

The season high water table (SHWT) is at an elevation of 3.7' ft., per the attached soils analysis in **Appendix B**.

Disposal

The infiltration basin's primary mode of disposal is through infiltration. Per an onsite soils information (provided in **Appendix A**), infiltration rates appear to be approximately >20 inches per hour for the anticipated soils at the site. This infiltration rate will allow the basin to drawdown within well within the required 3 days.

Calculations for the proposed wet retention basin have been provided in **Appendix B**. Currituck County calculations have been provided to demonstrate that the 5-yr post developed storms have been routed to 2-yr pre-developed wooded conditions. The basin would discharge into the downstream ditch having greater than a 30' vegetative buffer. A summary of the storage available within the basin is available in **Appendix B**.

Utilities

A water meter and associated service are proposed to connect to the existing PVC waterline at Waterlily Road. A backflow prevention device will be provided behind the new water meter. The building will be designed for the Needed Fire Flow to be within the Available Fire Flow. There is no nearby existing fire hydrant, so the applicants propose to rely on a dry hydrant that will draw from a strainer located within the deep portion of the new wet retention basin for fire flow. A copy of the Needed Fire Flow based upon ISO Method is included within the appendix demonstrating a NFF of 1,000 gpm. Based upon a standard 2 hour duration, the required fire storage volume is 120,000 gallons or 16,042 CF. Accounting for the 50 year drought conditions, 2' of freeboard over the top of the available fire storage volume, and keeping the strainer off of the bottom of the basin, the provided fire storage volume (or Available Fire Flow) is greater than the required 16,042 CF.

Changes to the existing waterline within the right-of-way are not proposed, therefore, a permit to construct from NC DEQ Public Water Supply is not required. The proposed water service shall be installed per Currituck County standard water specifications and details. An RPZ would be installed in the location as shown on the attached Site Plan.

The proposed on-site wastewater system is designed to handle 2,880 gallons per day. This anticipated amount is based on 200 Swimmers at 10 GPD each, 10 employees at 25 GPD each, 16 pickleballers at 25 GPD each, and up to 11 seats at 20 GPD each. An onsite evaluation has been requested of Albemarle Regional Health Services to determine acceptable site characteristics. A copy of the preliminary geotechnical report including copies of boring logs is included within the Appendix for reference.

Buffers and Site Vegetation

The Currituck County UDO defines a heritage tree as any live oak greater than 12" diameter at breast height and trees or other tree species greater than 24" diameter at breast height, with the exception of pine trees. Heritage trees are shown within the enclosed site plan. It should be noted that no heritage trees are proposed to be impacted. The majority of the heritage trees were located in the western portion of the subject property, and the majority of the impacted trees were not qualified as heritage trees.

Adjacent Property Zoning

Surrounding properties are zoned Single Family Mainland. Buffer yards are not required as adjacent properties are also zoned SFM. Site Landscaping and Vehicular Landscaping are provided on the plans, along with refuse area screening adjacent to the proposed dumpster enclosure. The vehicular landscape buffer around the proposed parking lot will provide a minimum of 2" ACI canopy tree and 1 shrub per 8 ft. The Site Landscape buffer will provide 2 caliper inches of canopy tree per acre and 1 shrub per 8 ft.

Appendix A – State Stormwater Calculations

Athletic Facility Wet Retention Basin **NCDEQ Stormwater Calculations**

Drainage Area Calculations

	Combined Drainage Area		
	(sq.ft.)	(acre)	
Drainage Area =	331,153.00	7.60	
Open Space	275,201.00	6.32	
Concrete =	53,192.00	1.22	
Building=	2,760.00	0.06	
Gravel =	0.00	0.00	
Impervious =	55,952.00	1.28	

Runoff generated by 1.5" Rainfall Event (NCDEQ Simplified Method) Ia = Impervious Percentage = Impervious Area/Drainage Area Rv= Runoff Coefficient, 0.05+0.9Ia

5 in.) 530*Rd*Rv*A

Rd=	Rain fall depth	(1.5
V=	Runoff Volume	9, 36
	Area 1	
la =	16.9%	
Rv=	0.20	
Rd (in.)=	1.5	
A (ac.) =	7.60	
V (cf.)=	8362	

Total Storage Required by NCDEQ =	8,400.00 cf
Total Storage Required by Currituck County =	25,810.00 cf

Above Grade Storage Provided In Wet Basin

Infiltration Basin 1 (FRONT) - Above Grade Storage					
Elev	Area (sf)	Avg area (sf)	Volume (cf)	Cum Vol. (cf)	
3.70	28749			0	
		29884	8965		
4.00	31018			8965	
		32180	32180		
5.00	33342			41145	

100	52160	
		41145

Above Grade Storage Provided =

41145 (f
---------	---

7.4 in

4.63 in

Total Storage Provided (above & below) = 41145 cf Total Storage Rainfall Equivalent Storage =

Project Name:	Athletic Facility
Quible Project Number:	P16099
Date:	12/13/2023

Currituck County Stormwater Calculations (In Lieu of Forms SW-002 and SW-003)

Carlita				in Lieu of			000/		
Step 1:		Drainage A	rea	331,153.00	square feet				
				7.60	acres				
Step 2:		Determine	Runoff Coeffi	icient					
		C =	0.15						
Step 3:		Determine	Time of Conc	entration					
		Sheet Flow	/						
		Tc ₁ = 0.42	$(nL)^{0.8}$						
		P^0	^{.5} S ^{0.4}						
		n =	0.1	(woods)					
		L =	300	feet					
		P =	4	inch					
		S =	0.004	ft/ft					
		Tc ₁ =	30.6	mins					
		Shallow Co	ncentrated F	low					
		(n/a)							
		() -)							
		Channel Fl	ow						
		(n/a)							
		Tc = Tc1 + ⁻	Tc2						
		Tc =	30.6	mins					
Step 4:		Determine	Peak Rainfall	Intensity					
		Time of Co	ncentration						
T (yrs)		5 mins	10 mins	15 mins	30 mins	1 hr	2 hr	3 hr	
	2	6.11	4.88	4.09	2.82	1.77	1.04	0.737	
	5	6.83	5.47	4.61	3.28	2.1	1.26	0.893	
	10	7.9	6.32	5.32	3.86	2.51	1.53	1.09	
	I =	2.80	in/hr	Interpolation Formula =			Х	Y	
		-		$x_{1} = \frac{(x_{2} - x_{1})}{(x_{2} - x_{2})}$	$(y_3 - y_1) + y_1$	·.	1	30	2.82
				$y_2 - (x_1)$	$_{3}-x_{1})$ y_{2}	1	2	30.64	
							3	60	1.77
				<i>y</i> ₂ =	2.80				
Step 5:		Determine	the 2-year Pr	e-Development p	eak discharg	e, Q			
•		Q = CIA			C C				
		Q 2=	3.19	cfs					
				1					
Step 6:		Determine	the weighted	l runoff coefficien	t, Cw for pos	t-developm	ent		
		C - Value							
		Impe	rvious Area =	55,952.00	sq.ft.	0.95			
			Open Area =	275,201.00	sq.ft.	0.25			



Total =	331,153.00
CN _W =	57.28

Step 11: Determine the 5-year post-development runoff depth, Q



Step 12:	Determine the Runoff Volume, V
sten 17.	Defermine the Kunon volume. V.
	Determine the number volume, v
	, , , , , , , , , , , , , , , , , , , ,

$$V_r = \frac{Q}{12} * A$$

 $Q = 1.12 \text{ in}$
 $A = 7.60 \text{ acres}$
 $V_r = 0.71 \text{ ac-ft}$

Step 13: Determine the Required Storage Volume, V_s

$$V_{s} = 1613.33*V_{r}*(1 - \frac{Q_{2} \text{ pre}}{Q_{10} \text{ post}})$$

$$V_{r} = 0.71 \text{ ac-ft}$$

$$Q_{2-\text{pre}} = 3.19 \text{ cfs}$$

$$Q_{5-\text{post}} = 19.12 \text{ cfs}$$

$$V_{s} = 955.74 \text{ CY}$$

$$25,804.85 \text{ CF}$$

Appendix B – On-site Soils Report and Memo

MEMORANDUM



& Associates, P.C. ENGINEERING * CONSULTING * PLANNING ENVIRONMENTAL SCIENCES * SURVEYING Phone: (252) 261-3300 Fox: (252) 261-1260 Web: www.quible.com

SINCE 1959

To: Nadeen Dashti,

From: Warren D. Eadus, P.G.

Date: December 12, 2023

Re: 50 Year Drought Water Level Determination-Athletic Facility 1555 Waterlily Road

A review of available historic groundwater data (available from USGS:

http://www.ncwater.org/GWMS/openlayers/ol.php?entrance=home_page&menulist=bl#map=11/-8447016.91/4317555.92/0 and USGS Scientific Investigations Report 2005-5053 (Weaver, J.C., The Drought of 1998-2002 in North Carolina-Precipitation and hydrologic conditions: US Geological Survey Scientific Investigations Report 2005-5053, 88p.) indicates that groundwater levels (and surface water levels which correspond with some lag depending on soils) in the eastern or outer coastal plain dropped between +/-2.0 feet to nearly 2.85 feet in response to the drought conditions that were experienced between 1998-2002. This period is recognized as being a "50 Year Drought".

Therefore, and conservatively, we can use the 2.85 feet fluctuation as a "50 Year Drought" elevation benchmark for groundwater and any surficial aquifer pond that would be constructed (construction of wet pond proposed with permanent pool elevation) to provide a permanent water source. Given our history and the normal water level conditions observed in the past in a nearby pond (OBX KOA property) and based on a recent geotechnical analysis with soil borings and recorded depths to water (normal conditions permanent pool elevation) it is our opinion that the normal groundwater table elevation at the Site is 3.7 feet (NAVD 88). This places the "50 Year Drought" elevation at 0.85 feet NAVD 88.

This is a conservative approach that is derived from the best data available including the USGS Paper cited above, along with queries of the US Drought Monitor, USACE Antecedent Precipitation Tool, NC Drought.gov websites and a working knowledge of the Site and groundwater conditions in the region.

There is limited relevant data that we can draw upon for this analysis and a conservative approach has been taken. We also reviewed a composite of wetlands elevations around the Site, elevations of the adjacent Currituck Sound, biological markers of water level elevations in the Sound (Normal Water Level) and adjacent marsh.



December 11, 2023

Our Job No.: 23793

OBX KOA WEST c/o Bluewater Development 9919 Stephen Decatur Highway Ocean City, Maryland 21842

Attention: Mr. Mike O'Neil

Reference: OBX Koa West – Athletic Complex 1631 Waterlily Road – Coinjock, North Carolina Preliminary Subsurface Investigation and Geotechnical Evaluation

Dear Mr. O'Neil:

Following your email authorization, we have completed an investigation and geotechnical evaluation for the Athletic Complex proposed for construction at the OBX KOA West Campground, located in Coinjock, North Carolina. This investigation was performed to evaluate the general soil and groundwater conditions on the project site and develop preliminary recommendations for the design and construction of foundations and slabs. Our findings, analysis and preliminary recommendations are presented herein.

For this investigation we were provided with an electronic copy of a concept site plan entitled *Athletic Facility – Currituck Sound Waterlily Road – Coinjock, North Carolina,* prepared by Endeavor Engineering, dated November 20, 2023. The site plan was used in the preparation of this report.

SITE DESCRIPTION

OBX KOA West is a waterfront campground located at the end of Waterlily Road, on the Currituck Sound, in Coinjock, North Carolina. The Athletic Complex is proposed on the west side of Waterlily Road, just north of the entrance to the campground. The site is currently forested and contains various walking trails throughout the woods. From review of Google Earth, the site surface is relatively flat at approximately 12 feet above Mean Sea Level (MSL). At the time of this investigation the ground surface was dry and stable.

PROPOSED CONSTRUCTION

The proposed construction is for an athletic facility to include an in-ground swimming pool, walking paths, a bathhouse, pickle ball courts, as well as parking and utilities usually associated with this type of development. From review of the previously referenced site

Our Job Number: 23793 December 11, 2023 Page Number: 2

plan, the pool is proposed in the center of the wooded area west of Waterlily Road. Construction drawings were not available at the time of this investigation, however from our recent conversation we understand that the pool will consist of a gunite concrete shell, ranging from zero to 4.5 feet in depth, and will be surrounded by poured-in-place concrete slabs-on-grade. The bathhouse will be a 1-story wood framed building with a concrete slab-on-grade. Limited site grading is anticipated with fill depths on the order of 1 to 2 feet. Excavations of approximately 4 to 5 feet will be required for the pool's construction.

INVESTIGATION

In order to examine the soil conditions on the site we have directed the drilling of three (3) hand-auger probes within the proposed facility. The auger probes are labeled as Auger Probe AP-1 through AP-3 and were drilled to a depth of 10 feet below the existing ground surface. Dynamic Cone Penetration (DCP) tests were conducted at 12-inch intervals. DCP testing involves driving a 1.5-inch diameter cone, with a 15-pound hammer, free-falling 20-inches. The DCP-value, given as blows per increment (bpi), is defined as the total number of blows required to drive the cone from 2-inches to 3 ³/₄-inches. Representative samples were obtained and transported to our laboratory for review and classification. The samples were visually identified in accordance with *Standard Practice for Description and Identification of Soils* (Visual-Manual Procedure) ASTM Designation D-2488. Detailed descriptions of the soils are indicated on the attached auger probe logs. The auger probe location plan is a version of the previously referenced site drawing, modified to illustrate the auger probe locations.

GEOLOGY

According to the *Geologic Map of North Carolina* (NCGS, 1985), the geologic unit at the surface of the athletic complex site is Surficial deposits, undivided. These deposits are described as sand, clay, gravel, and peat deposits derived from marine, fluvial, eolian, and lacustrine environments. These deposits are typically below elevation 25 feet above mean sea level. The thickness of the unit is not listed. By correlation with Virginia and Maryland, Onshore and Barrier Island Deposits, the thickness of the Surficial deposits, undivided unit is significantly greater than 100 feet.

FINDINGS

The soil conditions encountered are consistent with the geology as noted above and consist primarily of sand with trace amounts of silt. The sands extend to the bottom of the probes. Based on the DCP test resistance N values, the sand can be characterized as loose to medium dense.

At the time of test drilling, water was encountered at a depth of 9.5 to 10.0 feet below the existing ground surface. After several hours of completion of test drilling, the groundwater levels remained between approximately 9.5 to 10.0 feet below the surface.

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ANALYSIS / DISCUSSION

Based on our findings the site is satisfactory for the proposed construction. The soil conditions encountered are satisfactory to support conventional spread footing foundations and ground supported concrete slabs, given that the recommendations presented herein are followed. Based on our analysis of the DCP test resistance N values, the subsurface conditions are satisfactory to support spread footings proportioned for an allowable soil contact pressure equal to 2,000 psf.

We do not anticipate that groundwater will impact the pool design or construction. We anticipate that groundwater will be encountered in excavations made below a depth of about 9.0 to 10.0 feet below the existing surface. Since the bottom of the pool excavation will be founded in Sand, isolated loose conditions may be encountered and may require compaction with mechanical tampers.

The side wall for the pool will not restrict the lateral movement of soil backfill, and as a result, the full internal resistance of the soil will be mobilized. We recommend the use of "active" lateral earth pressure criteria for the pool design, which assumes a yielding wall.

PRELIMINARY RECOMMENDATIONS

In consideration of the above data and our understanding of the proposed construction, we offer the following recommendations for your consideration. These recommendations are considered preliminary, pending our review of the final construction drawings. Once the construction drawings become available, our office should be contacted for additional review and comment.

Earthwork

- 1. Prior to placement of fill, we recommend that the existing surface in fill areas be stripped of all vegetation and topsoil and be approved by the geotechnical engineer.
- 2. We recommend that fill be placed in horizontal layers not exceeding 8 inches thick, and compacted. We recommend that backfill for utilities and foundations be placed in 6-inch maximum thickness layers and compacted.
- 3. We recommend that the structural fill be compacted to a minimum of 95% of the maximum dry density as determined in accordance with the standard moisture density relationship test (ASTM D-698/AASHTO T99), with the exception that the last 12 inches at pavement subgrade be compacted to a minimum of 100%.
- 4. We recommend that each layer of fill be tested and approved prior to placement

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of the succeeding layer. Fill which fails to meet the minimum compaction requirements shall be reworked until satisfactory compaction is obtained.

- 5. We recommend that the material proposed for use as fill meet the classification requirements for AASHTO designations A-1 through A-3, inclusive, be free of deleterious materials, and possess a natural moisture content within 3 percentage points of the optimum moisture content for compaction. Approval of the fill materials by HKA will be necessary prior to use.
- 6. We recommend that both permanent fill and cut slopes be constructed on a maximum gradient of 2:1 (horizontal to vertical). Flatter slopes are suggested where possible to aid in the establishment of vegetative cover, reduce the potential for erosion, and facilitate maintenance.

Foundations

- 1. We recommend that the Bathhouse building be supported on conventional spread footing foundations, bearing on firm natural subsoil, or suitably compacted fill, designed for an allowable soil contact pressure equal to 2,000 psf.
- 2. We recommend the footings be located at a minimum depth of 18-inches below the finished grade for frost protection. We recommend that the footings contain a minimum of two #4 steel reinforcing bars placed continuously in the footings.
- 3. We recommend that the footing excavations be inspected, tested, and approved by a representative of HKA, prior to concrete placement. HKA shall confirm that the soils below the foundations are satisfactory for the support of the foundations as designed. If the soils below the foundations are found to be unsatisfactory, the footing shall be modified by HKA, in conjunction with the structural engineer.

Slab-On-Grade

- 1. We recommend that ground floor slabs be designed as floating slabs, not rigidly connected to bearing walls or foundations to accommodate differential settlement. The slab may rest on the wall or foundation but should not be structurally connected. The slabs may be structurally connected if the structural engineer takes into consideration differential settlement which may be on the order of $\frac{1}{2}$ inch. The slab may be designed based on a modulus of subgrade reaction k = 200 PCI, provided the slab subgrade is constructed with granular soils compacted to a minimum of 95% of a standard proctor (ASTM D698).
- 2. We recommend that a minimum 4-inch-thick drainage layer, consisting of free draining sand or gravel, be placed beneath floor slabs to improve drainage and provide a firm level surface for concrete placement. We recommend that a plastic

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vapor barrier be provided between the concrete and drainage layer.

3. We recommend that slab-on-grade subgrade soils be compacted to a minimum of 95% of ASTM D698. We recommend that the prepared slab subgrade be tested and approved by the geotechnical engineer prior to placement of slab concrete.

Pool Structure

- 1. We recommend that the pool be supported on spread footings or a mat foundation bearing on firm natural ground or engineered fill and designed for an allowable bearing pressure equal to 2,000 psf.
- 2. For computation of design pressures, we recommend the following design parameters:

Angle of Internal Friction = 28 degrees Bulk (wet) Density = 120 PCF Coefficient of Active Earth Pressure = 0.36 Equivalent Active Pressure = 43 PCF/FT (for swimming pool side walls)

3. We recommend that the pool excavation be inspected and tested by a representative of the geotechnical engineer prior to concrete placement.

Construction Inspection and Testing

We recommend that the owner retain the services of Hardin-Kight Associates, Inc. to:

- 1. Monitor earthwork grading operations including approval of the ground surface, monitoring fill placement, and performance of compaction tests
- 2. Observe foundation construction, including inspection of the footing excavations, and perform penetration tests to confirm subfoundation soil suitability, to a minimum depth of 3 feet below the bottom of the footing.

CONCLUSIONS

Based on the findings of this investigation, the site is satisfactory for the proposed construction. The subsurface conditions are satisfactory for support of conventional foundations and concrete slabs-on-grade.

The recommendations included in this report are based on the findings at the auger probe locations and the understanding that we will be retained to monitor foundation construction.

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LIMITATIONS

This report was prepared in accordance with generally accepted practice for geotechnical engineering in this area. It is intended for the use of the client for the specific site, as shown on the Auger Probe Location Plan. The recommendations are based on the general description of the proposed pool construction as characterized above. If the project is substantially modified, this office should be notified so that we can review our recommendations to determine what impact the changes will have.

The soil and water conditions discussed herein represent the conditions encountered at the locations of the exploratory auger probes as shown on the Auger Probe Location Plan. Variations in the soils between the probe locations and below the depths explored should be anticipated.

A copy of the auger probe logs, and location plan are enclosed for your reference. If you have any questions concerning this report, please feel free to contact us.

Very truly yours,

HARDIN-KIGHT ASSOCIATES, INC

Paul M. Till

Justin A. Frizzell, P.E.



Contracted With: BLUE WATER DEVELOPMEN Projects Name: OBX WEST POOL Location: COINJOCK NORTH CAROLII		NT NA			Auger Probe: AP - 1 (page 1 of 2) Job #: 23793
Loouton				Sampler	
Datum Surf. Elev. Date Started	- 12.0+/-* 12/6/2023				Foreman - Inspector PT/PT2 Date Finished 12/6/2023
Elev.	Soil Description Color, Moisture, Density Plasticity, Size Proportions	Strata Depth	Depth Scale	DCP Blows	Boring & Sample Notes
11.5	Topsoil	0.5		-	
-	Tan/brown, moist, loose, fine to medium SAND with trace silt (SP))	1.0		2.0 inches Vegetation at surface
- 10.5 -	Tan to rust, moist to wet, loose to medium dense, fine to medium SAND with trace silt (SP)	1.5	2.0	3-5-5	Water encountered at 9.5 feet while drilling probe
-			3.0	3-6-6	Water at completion 9.5 feet
			-		Rust mottles at 8.5 feet
-			4.0	5-6-7	
-			5.0	7-7-8	
-			6.0	4-7-7	
- - 			7.0	3-5-9	*surface elevation estimated from Google Earth
-			- - 8.0	7-10-15+	

Sampler Type	Sample Conditions	Ground Water Depth	Boring Method
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION9.5 FT	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I - INTACT	AFTER HRSFT	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	AFTER 24 HRSFT	DC - DRIVEN CASING
RC - ROCK CORE	L-LOST		MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" OD SAMPLER WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS

Contracted Wit Projects Name Location:	th: :	BLUE WATER DEVELOPMENT OBX WEST POOL COINJOCK, NORTH CAROLINA		Auger Probe Job #:	: AP- 1 (page 2 of 2) 23793
			Sampler		
Datum	-			Foreman	-
Surf. Elev.	12.0+/-	*		Inspector	PT/PT2
Date Started	12/6/20)23		Date Finished	12/6/2023

Elev.	Soil Description Color, Moisture, Density Plastidly, Size Proportions	Strata Depth	Depth Scale	DCP Blows	Boring & Sample Notes		
-	Tan to rust, moist to wet, loose to medium dense, fine to medium SAND with trace silt (SP)		9.0	4-5-15+			
2.0	Pottom of Augor Probo at 10.0 foot	10.0	10.0				
	Bollom of Auger Probe at 10.0 feet		- - 11.0 -				
_			- 12.0 - -				
-			- 13.0 - -				
-			- 14.0 - - -				
-			- 15.0 - - -			*surface elevation estimated from Google Earth	
-			- 16.0				
Sampler Ty DS - DRIVEN SPI PT - PRESSED S CA - CONTINUO	ZPE Sample Conditi LT SPOON D - DISINTEGRATED HELBY TUBE I - INTACT JS FLIGHT AUGER U - UNDISTURBED	ons		Ground W At completic After hrs After 24 hrs.	ater Depth	Boring Method Hsa - Hollow stem augers CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVEN CASING	

RC - ROCK CORE

U - UNDISTURBED L - LOST

Groun	Ground Water Depth						
AT COMPLETION FT							
AFTER	HRS	FT					
AFTER 24 HRSFT							

DC - DRIVEN CASING MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" OD SAMPLER WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS

Contracted With: Projects Name: Location:	BLUE WATER DEVELOPMENT OBX WEST POOL COINJOCK, NORTH CAROLINA	4		
			Sampler	
Datum -	- 1 - b			

Auger Probe:	AP - 2 (page 1 o
Job #:	23793

of 2)

Datu Surf. Elev.

Date Started

12.0+/-* 12/6/2023

Foreman	
Inspector	PT/PT2
Date Finished	12/6/2023

Elev.	Soil Description Color, Moisture, Density Plasticity, Size Proportions		Soil Description Strata Depth Color, Moisture, Density Depth DCP Blows Plasticity, Size Proportions Depth Scale		Boring & Sample Notes	
11.0	Topsoil		10			3.0 inches Venetation at surface
-	Tan/brown to tan/grey, moist dense, fine to medium SANE (SP)	to wet, medium) with trace silt	1.0	1.0 - - 2.0	6-10-15+	Water encountered at 10.0 feet while drilling probe
				3.0	10-15+	Water at completion 10.0 feet
-				4.0	8-10-15+	Rust mottles at 7.5 feet
-				5.0	7-9-11	
-				6.0	10-14-15+	
				7.0	5-9-15+	*surface elevation estimated from Google Earth
-	*Rust mottles			8.0	10-15+	
Sampler Ty DS - DRIVEN SPL PT - PRESSED SI CA - CONTINUOL RC - ROCK CORE STANDARD P	YPE LIT SPOON HELBY TUBE JS FLIGHT AUGER E E PENETRATION TEST - DRIVING 2" OD	Sample Conditio D-DISINTEGRATED I-INTACT U-UNDISTURBED L-LOST SAMPLER WITH 140#1	ns HAMMER F	ALLING 30".	Ground W: at completio after hrs after 24 hrs_ cOUNT MADE AT	ater Depth Boring Method NFT HSA - HOLLOW STEM AUGERS FT CFA - CONTINUOUS FLIGHT AUGERS FT DC - DRIVEN CASING MD - MUD DRILLING MD - MUD DRILLING

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Record of Soil Exploration

Contracted W Projects Nam Location:	Vith: BLUE WATER DEVELOPMEN DBX WEST POOL COINJOCK, NORTH CAROLII	JT NA	Auger Probe: Job #:	AP- 2 (page 2 of 2) 23793
Datur		Sampler		
Datum	- 12 0+/ *		Foreman -	ידרו/דר
Suri. Elev.	12.017-		Inspector F	PI/PIZ
Date Started	12/6/2023		Date Finished	2/6/2023

Elev.	Soil Description Color, Moisture, Density Plasticity, Size Proportions	Strata Depth	Depth Scale	DCP Blows	Boring & Sample Notes
	Tan/brown to tan/grey, moist to wet, medium dense, fine to medium SAND with trace silt (SP)		9.0	8-15+	
2.0	Bottom of Auger Probe at 10.0 feet	10.0	10.0		
			- 11.0		
-			- 12.0 -		
-			- 13.0 -		
-			- 14.0 -		
			- 15.0 - -		*surface elevation estimated from Google Earth
			- - 16.0		
Sampler Ty DS - DRIVEN SPL PT - PRESSED SF CA - CONTINUOU RC - ROCK CORE	PE Sample Condition IT SPOON D - DISINTEGRATED HELBY TUBE I - INTACT IS FLIGHT AUGER U - UNDISTURBED E L - LOST	ons		Ground Wa At COMPLETION AFTER HRS_ AFTER 24 HRS_	Ater Depth Boring Method N_10.0FT HSA - HOLLOW STEM AUGERS FT CFA - CONTINUOUS FLIGHT AUGERS FT DC - DRIVEN CASING MD - MUD DRIVEN NG

STANDARD PENETRATION TEST - DRIVING 2" OD SAMPLER WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS

Contract Projects Location	ed With: BLUE WATER DEVELOPM Name: OBX WEST POOL : COINJOCK, NORTH CARC	IENT DLINA			Auger Probe:AP - 3 (page 1 of 2)Job #:23793
				Sampler	
Datum	-				Foreman -
Surf. Elev.	12.0+/-				Inspector PI/PI2
Date Started	12/0/2023				Date Finished 12/0/2023
	Soil Description		D "		Device & Connels
	Color, Moisture, Density	Strata	Depth	DCP Blows	Bonng & Sample
Elev.	Plasticity, Size Proportions	Depth	Scale		Notes
• 1.	Topsoil				
·					
			-		
11.0		1.0	1.0		3.0 inches Vegetation at surface
	Tan/brown to grev/tan, moist to wet, loose to	,	- 1.0 🚛		
	medium dense, fine to medium SAND with				
1	trace silt (SP)		-		
}				2-6-7	Water encountered at 10.0 feet while drilling probe
ŀ			2.0	2-0-1	Water encountered at 10.0 leet while drilling probe
			-		Water at completion 10.0 feet
			3.0	10-10-15+	
			-		
			-		
				9-15+	
			4.0 🔳		
]		
			4		
•				7 10 15	
-			5.0	7-12-10+	
			-		
			-		
			60	12-15+	
			-		
			-		
			-		
5.0		7.0	-	8-11-14	
	Crow maint to wat madium dance fine CAN		7.0	• • • •	*surface elevation estimated from Google Earth
	with trace silt (SP)				
	with trace sitt (Cr.)				
				0.40.45	
-			8.0	9-10-15	
<u>L</u>					
Sampler T	ype Sample Conc	ditions		Ground Wa	ater Depth Boring Method
DS - DRIVEN SP	LIT SPOON D - DISINTEGRATED			AT COMPLETIO	NFT HSA - HOLLOW STEM AUGERS
PT - PRESSED S	HELBY TUBE I - INTACT			AFTER HRS	FT CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUO	US FLIGHT AUGER U - UNDISTURBED			AFTER 24 HRS_	FT DC - DRIVEN CASING
RC - ROCK COR	E L-LOST				MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" OD SAMPLER WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS

Record of Soil Exploration

Contracte Projects I Location:	Contracted With: BLUE WATER DEVELOPMENT Projects Name: OBX WEST POOL Location: COINJOCK, NORTH CAROLINA			: AP- 3 (page 2 of 2) 23793				
Datum Surf. Elev. Date Started	- 12.0+/-* 12/6/2023				Sampler		Foreman Inspector Date Finished	- PT/PT2 12/6/2023
Elev.	Soil Desc Color, Moisture Plasticity, Size F	ription 9, Density Proportions	Strata Depth	Depth Scale	DCP Blows		Boring & Sample Notes	
	Grey, moist to wet, mediu with trace silt (SP)	m dense, fine SAND			8-11-15+			
2.0			10.0	- - - 10.0				
	Bottom of Auger Probe at	10.0 feet						
				-				

Sampler Type Sample Co			
DS - DRIVEN SPLIT SPOON D - DISINTEGRA	onditions	Ground Water D AT COMPLETION	epth Boring Method FT HSA - HOLLOW STEM AUGERS
CA- CONTINUOUS FLIGHT AUGER U- UNDISTURB RC - ROCK CORE L-LOST			FTCFA - CONTINUOUS FLIGHT AUGERS

12.0

13.0 --

14.0

	Data Data in J	DEMLR USE ONLY	Dermit Manufactor					
	Date Received	Fee Pala	Fermit Number					
Ap (sel	plicable Rules: □ Coastal SW - ect all that apply) □ Non-Coastal □ Other WQ M	1995 □ Coastal SW – 2008 SW- HQW/ORW Waters □ Univer gmt Plan:	□ Ph II - Post Construction sal Stormwater Management Plan					
	State of North Carolina Department of Environment and Natural Resources Division of Energy, Mineral and Land Resources							
	STORMWATER MANAGEMENT PERMIT APPLICATION FORM This form may be photocopied for use as an original							
I.	GENERAL INFORMATION	1						
1.	Project Name (subdivision, facility specifications, letters, operation a Athletic Facility - 1555 Waterlily	ty, or establishment name - should be ind maintenance agreements, etc.): Rd	consistent with project name on plans,					
2	Location of Project (street addres	c).						
۷.	1555 Waterlily Rd	5).						
	<u>City:Coiniock</u>	County:Currituck	7in:27923					
з	Directions to project (from pears	et major intersection):	Lip. <u>27725</u>					
5.	The project of legated to the wood	of Waterlike Dd approximately 75 m	ilas fuero Correteiro Hum					
4. II. 1. a	Latitude: <u>36° 25′ 12.6228″ N</u> PERMIT INFORMATION: .Specify whether project is (check	_ Longitude: <u>75° 55′ 29.7876″ W</u> one): ⊠New ⊡Modification [†] Renewals with modifications also require	of the main entrance to the project. Renewal w/ Modification† s SWU-102 – Renewal Application Form					
b	b. If this application is being submitted as the result of a modification to an existing permit, list the existing permit number, its issue date (if known), and the status of construction: Not Started Partially Completed* Completed* *provide a designer's certification							
2.	Specify the type of project (check Low Density High Dens	one): ity Drains to an Offsite Stormwa	ter System Other					
3.	If this application is being submi- DEMLR requesting a state storm if assigned, <u>N/A</u> proposed,	tted as the result of a previously retur water management permit application and the previous name of the pro-	ned application or a letter from on , list the stormwater project number, ject, if different than currently					
4.a	Additional Project Requirements obtained by contacting the Custo	(check applicable blanks; information mer Service Center at 1-877-623-6748)	on required state permits can be					
	CAMA Major	Sedimentation/Erosion Contro	l: <u>6.04</u> ac of Disturbed Area					
-	INPDES Industrial Stormwater	∐404/401 Permit: Proposed Impa	acts					
b	. If any of these permits have alreatissue date and the type of each permission of the type of each permission of the type of each permission of the type of the t	dy been acquired please provide the I ermit:	Project Name, Project/Permit Number,					
5	Is the project located within 5 mi	$\log \alpha f \alpha$ public simplify \mathbb{N}						

5. Is the project located within 5 miles of a public airport? No Yes *If yes, see S.L. 2012-200, Part VI:* <u>http://portal.ncdenr.org/web/lr/rules-and-regulations</u>

III. CONTACT INFORMATION

1. a. Print Applicant / Signing Official's name and tit. designated government official, individual, etc. v	le (specifically the deve who owns the project):	eloper, p	roperty owner, lessee,
Applicant/Organization:85' and Sunny, LLC			
Signing Official & Title:Todd E. Burbage, Manag	ing Member		
b.Contact information for person listed in item 1a	above:		
Street Address:9919 Stephen Decatur Highway			
City:Ocean City	State:MD		Zip:21842
Mailing Address (<i>if applicable</i>):9919 Stephen Deca	tur Highway		_ 1
City:Ocean City	State:MD		Zip:21842
Phone: (410) 213-1900	Fax: ()	_ 1
Email:tburbage@bwdc.com		·	
 The property owner (Skip to Contact Informa Lessee* (Attach a copy of the lease agreement Purchaser* (Attach a copy of the pending sale 2b below) Developer* (Complete Contact Information, i 	and complete Contact and complete Contact agreement and comp tem 2a and 2b below.)	t Informa olete Cor	ation, item 2a and 2b below) atact Information, item 2a and
2. a. Print Property Owner's name and title below, if y person who owns the property that the project is	you are the lessee, pure located on):	chaser or	developer. (This is the
Property Owner/Organization:			
Signing Official & Title:			
b. Contact information for person listed in item 2a a	above:		
Street Address:			
City:	State:		_ Zip:
Mailing Address (<i>if applicable</i>):			
City:	State:		_ Zip:
Phone: ()	Fax: ()	
Email:			
3. a. (Optional) Print the name and title of another co person who can answer questions about the proj	ntact such as the proje ect:	ct's cons	truction supervisor or other
Other Contact Person/Organization:			
Signing Official & Title:			
b. Contact information for person listed in item 3a a	above:		
Mailing Address:			
City:	State:		_ Zip:
Phone: ()	Fax: ()	
Email:			
4. Local jurisdiction for building permits: <u>Currituck</u>	<u>County</u>		
Point of Contact: <u>Bill News</u>	Phone #: <u>(252</u>	2)2	202-5398

IV. PROJECT INFORMATION

1. In the space provided below, <u>briefly</u> summarize how the stormwater runoff will be treated.

The runoff will be treated onsite via a wet detention basin and dry infiltration area

2. a	a. If claiming vested rights , identify the supporting docum	ients	provided and the date they were	approved:
	Valid Building Permit		Issued Date:	
	Other:		Date:	
ł	D. If claiming vested rights , identify the regulation(s) the p	rojec	t has been designed in accordance	e with:
2	Stormustor runoff from this project drains to the Pasque	. 1		Disson la sain
э.	Stormwater runon none this project drams to the <u>rasquo</u>	tank		Kiver basin.
3. 4.	Total Property Area: <u>308.95</u> acres	<u>tank</u> 5. 6.	Total Coastal Wetlands Area: Total Surface Water Area:	River basin. acres acres
3. 4. 7.	Total Property Area: 308.95 acres Total Property Area (4) – Total Coastal Wetlands Area (5 Area*: 308.95 acres	5. 5. 6.) – To	Total Coastal Wetlands Area: Total Surface Water Area: otal Surface Water Area (6) = Tota	acres acres acres

- between the banks of streams and rivers, the area below the Normal High Water (NHW) line or Mean High Water (MHW) line, and coastal wetlands landward from the NHW (or MHW) line. The resultant project area is used to calculate overall percent built upon area (BUA). Non-coastal wetlands landward of the NHW (or MHW) line may be included in the total project area.
- 8. Project percent of impervious area: (Total Impervious Area / Total Project Area) X 100 = 0.96

%

- 9. How many drainage areas does the project have?<u>1</u> (For high density, count 1 for each proposed engineered stormwater BMP. For low density and other projects, use 1 for the whole property area)
- 10. Complete the following information for each drainage area identified in Project Information item 9. If there are more than four drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below.

Basin Information	Drainage Area <u>1</u>	Drainage Area	Drainage Area	Drainage Area
Receiving Stream Name	Currituck Sound			
Stream Class *	SC			
Stream Index Number *	30-1			
Total Drainage Area (sf)	331,153			
On-site Drainage Area (sf)	331,153			
Off-site Drainage Area (sf)	0			
Proposed Impervious Area ^{**} (sf)	55,952			
% Impervious Area ^{**} (total)	16.9			

Impervious** Surface Area	Drainage Area	Drainage Area	Drainage Area	Drainage Area
On-site Buildings/Lots (sf)	2,760			
On-site Streets (sf)				
On-site Parking (sf)	53,192			
On-site Sidewalks (sf)				
Other on-site (sf)				
Future (sf)				
Off-site (sf)				
Existing BUA*** (sf)				
Total (sf):	55,952			

* Stream Class and Index Number can be determined at: http://portal.ncdenr.org/web/wq/ps/csu/classifications

** Impervious area is defined as the built upon area including, but not limited to, buildings, roads, parking areas, sidewalks, gravel areas, etc.

- *** Report only that amount of existing BUA that will <u>remain</u> after development. Do not report any existing BUA that is to be removed and which will be replaced by new BUA.
- 11. How was the off-site impervious area listed above determined? Provide documentation. N/A

<u>**Projects in Union County:**</u> Contact DEMLR Central Office staff to check if the project is located within a Threatened & Endangered Species watershed that may be subject to more stringent stormwater requirements as per 15A NCAC 02B .0600.

V. SUPPLEMENT AND O&M FORMS

The applicable state stormwater management permit supplement and operation and maintenance (O&M) forms must be submitted for each BMP specified for this project. The latest versions of the forms can be downloaded from http://portal.ncdenr.org/web/wq/ws/su/bmp-manual.

VI. SUBMITTAL REQUIREMENTS

Only complete application packages will be accepted and reviewed by the Division of Energy, Mineral and Land Resources (DEMLR). A complete package includes all of the items listed below. A detailed application instruction sheet and BMP checklists are available from

<u>http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs</u>. The complete application package should be submitted to the appropriate DEMLR Office. (The appropriate office may be found by locating project on the interactive online map at <u>http://portal.ncdenr.org/web/wq/ws/su/maps</u>.)

Please **indicate that the following required information have been provided by initialing** in the space provided for each item. All original documents MUST be signed and initialed in **blue ink**. **Download the latest versions for each submitted application package** from <u>http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs</u>.

		Initials
1.	Original and one copy of the Stormwater Management Permit Application Form.	
2.	<i>Original and one copy</i> of the signed and notarized Deed Restrictions & Protective Covenants Form. <i>(if required as per Part VII below)</i>	
3.	<i>Original</i> of the applicable Supplement Form(s) (<u>sealed, signed and dated</u>) and O&M agreement(s) for <u>each</u> BMP.	
4.	Permit application processing fee of \$505 <i>payable to NCDENR</i> . (For an Express review, refer to <u>http://www.envhelp.org/pages/onestopexpress.html</u> for information on the Express program and the associated fees. Contact the appropriate regional office Express Permit Coordinator for additional information and to schedule the required application meeting.)	
5.	A detailed narrative (one to two pages) describing the stormwater treatment/management	for
6.	A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within $\frac{1}{2}$ mile of the site boundary, include the $\frac{1}{2}$ mile radius on the map.	
7.	Sealed, signed and dated calculations (one copy).	
8.	 a. Development/Project name. b. Engineer and firm. c. Location map with named streets and NCSR numbers. d. Legend. e. North arrow. f. Scale. 	
	 g. Revision number and dates. h. Identify all surface waters on the plans by delineating the normal pool elevation of impounded structures, the banks of streams and rivers, the MHW or NHW line of tidal waters, and any coastal wetlands landward of the MHW or NHW lines. Delineate the vegetated buffer landward from the normal pool elevation of impounded structures, the banks of streams or rivers, and the MHW (or NHW) of tidal waters. 	
	i. Dimensioned property/project boundary with bearings & distances.j. Site Layout with all BUA identified and dimensioned.	
	k. Existing contours, proposed contours, spot elevations, finished floor elevations.	
	 Details of roads, drainage features, collection systems, and stormwater control measures. m. Wetlands delineated, or a note on the plans that none exist. (Must be delineated by a qualified person. Provide documentation of qualifications and identify the person who made the determination on the plans. 	
	n. Existing drainage (including off-site), drainage easements, pipe sizes, runoff calculations. o. Drainage areas delineated (included in the main set of plans, not as a separate document).	

p. Vegetated buffers (where required).

- 9. Copy of any applicable soils report with the associated SHWT elevations (Please identify elevations in addition to depths) as well as a map of the boring locations with the existing elevations and boring logs. Include an 8.5" x11" copy of the NRCS County Soils map with the project area clearly delineated. For projects with infiltration BMPs, the report should also include the soil type, expected infiltration rate, and the method of determining the infiltration rate. (Infiltration Devices submitted to WiRO: Schedule a site visit for DEMLR to verify the SHWT prior to submittal, (910) 796-7378.)
- 10. A copy of the most current property deed. Deed book: Page No:
- 11. For corporations and limited liability corporations (LLC): Provide documentation from the NC Secretary of State or other official documentation, which supports the titles and positions held by the persons listed in Contact Information, item 1a, 2a, and/or 3a per 15A NCAC 2H.1003(e). The corporation or LLC must be listed as an active corporation in good standing with the NC Secretary of State, otherwise the application will be returned. http://www.secretary.state.nc.us/Corporations/CSearch.aspx

VII. DEED RESTRICTIONS AND PROTECTIVE COVENANTS

For all subdivisions, outparcels, and future development, the appropriate property restrictions and protective covenants are required to be recorded prior to the sale of any lot. If lot sizes vary significantly or the proposed BUA allocations vary, a table listing each lot number, lot size, and the allowable built-upon area must be provided as an attachment to the completed and notarized deed restriction form. The appropriate deed restrictions and protective covenants forms can be downloaded from http://portal.ncdenr.org/web/lr/statestormwater-forms_docs. Download the latest versions for each submittal.

In the instances where the applicant is different than the property owner, it is the responsibility of the property owner to sign the deed restrictions and protective covenants form while the applicant is responsible for ensuring that the deed restrictions are recorded.

By the notarized signature(s) below, the permit holder(s) certify that the recorded property restrictions and protective covenants for this project, if required, shall include all the items required in the permit and listed on the forms available on the website, that the covenants will be binding on all parties and persons claiming under them, that they will run with the land, that the required covenants cannot be changed or deleted without concurrence from the NC DEMLR, and that they will be recorded prior to the sale of any lot.

VIII. CONSULTANT INFORMATION AND AUTHORIZATION

Applicant: Complete this section if you wish to designate authority to another individual and/or firm (such as a consulting engineer and/or firm) so that they may provide information on your behalf for this project (such as addressing requests for additional information).

Consulting Engineer: Michael W. Strader, Jr.	_	_				
Consulting Firm: <u>Quible & Associates, P.C.</u>						
Mailing Address: <u>PO Drawer 870</u>						
City: <u>Kitty Hawk</u>	State: <u>NC</u>	Zip: <u>27949</u>				
Phone: <u>(252) 491-8147</u>	Fax: ()					
Email:mstrader@quible.com						

IX. PROPERTY OWNER AUTHORIZATION (if Contact Information, item 2 has been filled out, complete this section)

I, (print or type name of person listed in Contact Information, item 2a) _____ ____, certify that I own the property identified in this permit application, and thus give permission to (print or type name of person listed in Contact Information, item 1a) ______ with (print or type name of organization used in Contact Information, item 1a) ______ to develop the project as currently proposed. A copy of the lease agreement or pending property sales contract has been provided with the submittal, which indicates the party responsible for the operation and maintenance of the stormwater system.

As the legal property owner I acknowledge, understand, and agree by my signature below, that if my designated agent (entity listed in Contact Information, item 1) dissolves their company and/or cancels or defaults on their lease agreement, or pending sale, responsibility for compliance with the DEMLR Stormwater permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify DEMLR immediately and submit a completed Name/Ownership Change Form within 30 days; otherwise I will be operating a stormwater treatment facility without a valid permit. I understand that the operation of a stormwater treatment facility without a valid permit is a violation of NC General Statue 143-215.1 and may result in appropriate enforcement action including the assessment of civil penalties of up to \$25,000 per day, pursuant to NCGS 143-215.6.

Date:				
, a Notary Public for the State of	, County of			
y that	personally appeared			
,, and acknowledge the due	execution of the application for			
l and official seal,				
SEAL				
My commission expires				
	, a Notary Public for the State of y that, and acknowledge the due and official seal, SEAL My commission expires			

X. APPLICANT'S CERTIFICATION

I, (print or type name of person listed in Contact Information, item 1a) _______, certify that the information included on this permit application form is, to the best of my knowledge, correct and that the project will be constructed in conformance with the approved plans, that the required deed restrictions and protective covenants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under 15A NCAC 2H .1000 and any other applicable state stormwater requirements.

Signature:	Dat	e:
I,	, a Notary Public for the State of	, County of
, do hereby certif	y that	personally appeared
before me this day of	,, and acknowledge the due exect	ution of the application for
a stormwater permit. Witness my hand	and official seal,	
	SEAL	
	My commission expires	

FINANCIAL RESPONSIBILITY/OWNERSHIP FORM SEDIMENTATION POLLUTION CONTROL ACT

No person may initiate any land-disturbing activity on one or more acres as covered by the Act before this form and an acceptable erosion and sedimentation control plan have been completed and approved by the Land Quality Section, N.C. Department of Environmental Quality. Submit the completed form to the appropriate Regional Office. (Please type or print and, if the question is not applicable or the e-mail and/ or fax information unavailable, place N/A in the blank.)

Part 1.	A. Project NameA	thletic Faci	lity - 1555 V	Vaterlily Rd		
2.	Location of land-	disturbing acti	vity: County_	Currituck	City or Townsh	nip <u>Coinjock</u>
	Highway/Street_	Waterlilly I	Rd Latitu	ude <u>36.42017</u> 2	29317171 Longitude	-75.92494050914998
3.	Approximate date	e land-disturbi	ng activity will	commence:	Summer	2024
4.	Purpose of devel	opment (resid	lential, comme	ercial, industria	l, institutional, etc.):_	Athletic Facility
5.	Total acreage dis	turbed or unc	overed (includ	ling off-site bor	row and waste areas	s): <u>6.04 AC</u>
6.	Amount of fee er (rounded up to th	nclosed: \$ ie next acre) i	700 s assessed wi	The thout a ceiling	application fee of \$1 amount (Example: 8	00.00 per acre 10 ac = \$900.00).
7.	Has an erosion a	nd sediment o	control plan be	en filed? Yes	No	EnclosedX
8.	Person to contac	t should erosi	on and sedime	ent control issu	es arise during land-	disturbing activity:
	NameE	Emily Dema	Irco	_ E-mail Ade	dress <u>edemarco</u>	@bwdc.com
	Telephone 410)-213-1900	<u>x 1181</u> c	ell #	Fax #	ŧ
9.	Landowner(s) of	Record (attac	h accompanie	d page to list a	dditional owners):	
	85' ar	ıd Sunny, L	LC	410-21	3-1900 x 1181	
	Name			Telephone)	Fax Number
	9919 Stepl Current Mailing A	<u>nen Decatu</u> ddress	<u>r Highway</u>	<u>9919</u> Current St	Stephen Decatur	r Highway
	Ocean City	MD	21842	Ocean	City MD	21842
	City	State	Zip	City	State	Zip
10.	Deed Book No	1449	Page No	396	Provide a copy o	f the most current deed.
Part	В.					
1.	Company(ies) o	r firm(s) who	o are financi	ally responsit	le for the land-dis	turbing activity (Provic

1. Company(ies) or firm(s) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on an attached sheet.) *If the company or firm is a sole proprietorship, the name of the owner or manager may be listed as the financially responsible party.*951 and Suppy, LLC

85 and 3	sunny, LLC	J				
Name			E-mail Address			
9919 Stephen Decatur Highway			9919 Stephen Decatur Highway			
Ocean City	MD	21842	Ocean City	MD	21842	
City	State	Zip	City	State	Zip	
Telephone 410-213-1900 x 1181		Fax Number				

2. (a) If the Financially Responsible Party is not a resident of North Carolina, give name and street address of the designated North Carolina Agent:

Name			E-mail Address				
Current Mailing Addres	S		Current Street Address				
City	State	Zip	City	State	Zip		
Telephone			Fax Number				

(b) If the Financially Responsible Party is a Partnership or other person engaging in business under an assumed name, **attach a copy of the Certificate of Assumed Name.** If the Financially Responsible Party is a Corporation, give name and street address of the Registered Agent:

Todd E. Bu	rbage							
Name of Registered A	Agent			E-mai	Address			
9919 Stephen Decatur Highway				9919 Stephen Decatur Highway				
Current Mailing Address			Current Street Address					
Ocean City	MD	21842			Ocean City	MD	21842	
City	State		Zip	City			State	Zip
Telephone				Fax N	umber			

The above information is true and correct to the best of my knowledge and belief and was provided by me under oath (This form must be signed by the Financially Responsible Person if an individual or his attorney-in-fact, or if not an individual, by an officer, director, partner, or registered agent with the authority to execute instruments for the Financially Responsible Person). I agree to provide corrected information should there be any change in the information provided herein.

Type or print name		Title or	Authority			
Signature		Date				
I,	<u>,</u> a N	otary P	ublic of the Cou	nty of		
State of North Carolina, hereby certify that _ personally before me this day and being executed by him.	duly	sworn	acknowledged	that the	above	_appeared form was
Witness my hand and notarial seal, this	da	ay of		, 20		
Seal		Notary				

My commission expires

ALBEMARLE REGIONAL HEALTH SERVICES

Applicant:

Quible & Associates P.C. PO Box 870 Kitty Hawk, NC 27949 <u>Owner:</u> 85 & Sunny LLC 9919 Stephen Decatur Hwy Ocean City, MD 21842

Site Location:

1555 Waterlily Rd - Athletic Facility Coinjock, NC 27923

3PD: 2,880 LTAR: 0.250 Classification :	PS Shallow Placement
--------------------------------------------------------------	----------------------

If unsuitable, the site may be reclassified to provisionally suitable with the following modification(s):

To obtain an Authorization to Construct:

- * Submit a plat or scale drawing of the lot, showing location and dimensions of all property lines, proposed structures and driveways
- * Submit a copy of deed or contract to purchase
- * Sign legal documents agreeing to the inspection and maintenance requirements of the Albemarle Regional Health Services Management Entity
- * Pay permit fee of \$1600

Comments:

**A benchmark should be established prior to clearing of trees so original grade is known. Removal of trees typically lowers original ground elevation, therefore, sand fill will be needed to bring grades back up to original grade.

**Two sets of final plans, stamped and sealed by designing engineer shall be submitted for approval **Seasonal Soil Wetness was found at 24 inches, top of lines to be at original grade surface

EHS:

Date: <u>12/14/2023</u>

Carver, Kevin THIS APPROVAL WILL BECOME VOID AFTER 12 MONTHS AND A NEW APPLICATION WILL BE NECESSARY.

ALBEMARLE REGIONAL HEALTH SERVICES

Applicant:

Quible & Associates P.C. PO Box 870 Kitty Hawk, NC 27949 <u>Owner:</u> 85 & Sunny LLC 9919 Stephen Decatur Hwy Ocean City, MD 21842

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