



Clean, unobtrusive design delivers smooth and abundant light from an aperture just over 1 inch wide. Available in flush trim for a trimless look without the mess left behind from ceiling finishing work.

Color: White trim

Weight: 1.5 lbs

Project:
Town House Development

Type:
F

Prepared By:
DGA

Date:
8/31/17

Driver Info

Type:	Constant Current
120V:	0.08A
208V:	N/A
240V:	N/A
277V:	N/A
Input Watts:	9W
Efficiency:	90%

LED Info

Watts:	8W
Color Temp:	3000K
Color Accuracy:	83 CRI
L70 Lifespan:	N/A
Lumens:	604
Efficacy:	68 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations in a covered ceiling

ENERGY STAR® V2.0:

This product is ENERGY STAR® Version 2.0 Certified.

IESNA LM79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

Construction

IC Rating:

Suitable for direct contact with insulation

Trim Component:

This component can be ordered with New Construction housing in order to make a complete fixture.

Ambient Temperature:

Suitable for use in 55°C ambient temperatures

Cold Weather Starting:

Minimum starting temperature is -40° F (-40° C)

Lens:

Nanostructure lens eliminates "hot spots", and helps provide smooth, uniform light and higher efficiency

Junction Box:

Integral junction box with wiring capacity for Min 60°C supply conductors
End of Run

Housing:

Specification-grade, die-cast aluminum construction

Installation:

Torsion springs easily install into ceiling collar (remodeler) or rough-in (new construction)

Trim Ring:

White powder coated die cast 1/2" trim ring.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contain no VOC or toxic heavy metals.

LED Characteristics

LED:

High-output, long-life LED with 2-step binning and integrated driver technology

Color Consistency:

2-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period

Electrical

Driver:

Constant Current, Class 2, 120VAC Only, 50/60Hz, 200mA, 0.07A

Dimming Driver:

TRIAC and ELV (at 120V only).

Optical

Optics:

40° beam spread with specular thermoplastic optics

Spacing Criteria:

0-180° (along): 0.68
90-270° (across): 0.68
diagonal: 0.70

Other

California Title 24:

RDLED2R8 complies with 2013 California Title 24 building and electrical codes as a commercial indoor fixture for general spaces when used with a vacancy sensor and TRIAC dimming control. Select a vacancy sensor using catalog number LVS800. TRIAC dimmer provided by others.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Equivalency:

Equivalent to 50W MR16

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Technical Specifications (continued)

Other

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods— Buy American Act— Construction Materials (October 2010).

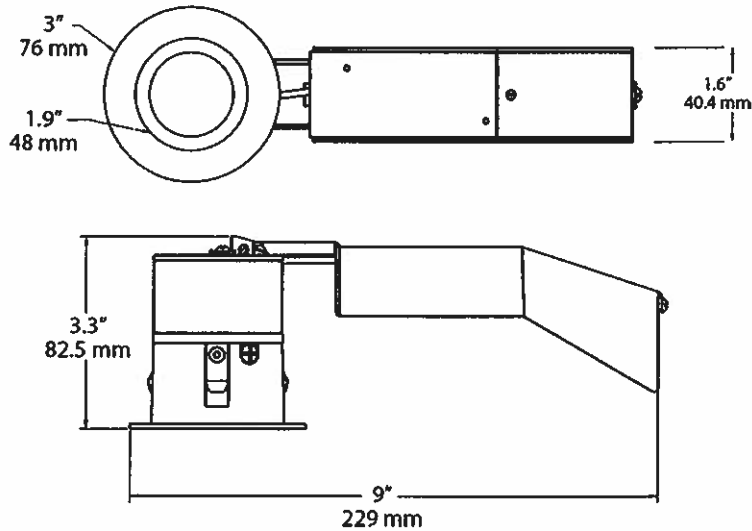
Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Dimensions



Features

8W replaces 50W MR16 with energy savings of 82%

TRIAC dimmer compatibility for additional light control

Precision-engineered optics deliver smooth light without hot spots or glare

Ordering Matrix

Family	Size	Shape	Watts	Beam Spread	Color Temp	CRI	Type	Finish
RDLED	2 = 2"	R = Round	8 = 8W	20 = 20° 30 = 30° 40 = 40° W = Wall Washer	YY = 2700K (Residential Warm) Y = 3000K (Warm) YN = 3500K (Warm Neutral) N = 4000K (Neutral)	Blank = 82 or 83 CRI HC = 90 CRI	T = 1/2" Trim TL = Trimless Look	W = White Trim



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

Project:
Town House Development

Type:
A

Prepared By:
DGA

Date:
8/31/17

Driver Info

Type:	Constant Current
120V:	0.1A
208V:	0.07A
240V:	0.06A
277V:	0.05A
Input Watts:	12W
Efficiency:	83%

LED Info

Watts:	10W
Color Temp:	3000K
Color Accuracy:	83 CRI
L70 Lifespan:	100000
Lumens:	876
Efficacy:	73 LPW

Technical Specifications

Listings

UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

Construction

Finish:

Formulated for high-durability and long lasting color.

Cold Weather Starting:

Minimum starting temperature is -40° F (-40° C)

Maximum Ambient Temperature:

Suitable for use in 104° F (40°C) ambient temperatures

Housing:

Precision die cast aluminum housing, lens frame.

Mounting:

Surface plate and Junction box.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Gaskets:

High Temperature Silicone.

Electrical

Driver:

Multi-chip 10W high output long life LED Driver Constant Current, Class II, 120V-240V, 50/60/ Hz, 350mA.

Other

California Title 24:

See WPLED10/PC for a 2013 California Title 24 compliant model.

Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

Patents:

The LPACK design is protected under patents in the U.S. Pat. D608,040, Canada Pat. 130,243, China Pat. 200930183252.2, and pending patents in Taiwan and Mexico.

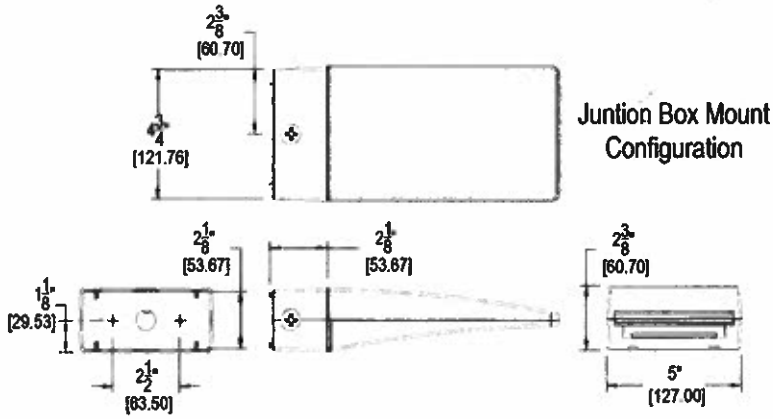
Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Equivalency:

Equivalent to 70W Metal Halide.

Dimensions



Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

Ordering Matrix

Family	Watts	Color Temp	Sensor	Surface Plate	Surface Place	Finish	Photocell
WPLED							
	10 = 10W	Blank = 5000K (Cool)	Blank = No Sensor	Blank = No Surface Plate	S = Surface Plate	Blank = Bronze	Blank = No Photocell
	13 = 13W	Y = 3000K (Warm) N = 4000K (Neutral)	MS = Mini Sensor			W = White	/PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Button

Date : 25 Jun 2020

Title : Enter the title here...

Desc : Enter the description here...

Luminaire

IES Filename : rab02318.ies

Description : WPLED10Y (WALLPACK) - ALED10Y (AREA LIGHTER) - BLED10Y (Bollard)
CAST METAL HOUSING, ONE CIRCUIT BOARD WITH ONE LED, MOLDED PLASTIC

For : Client's name or company...

Light Loss Factor : 1.00

By : Your name or company...

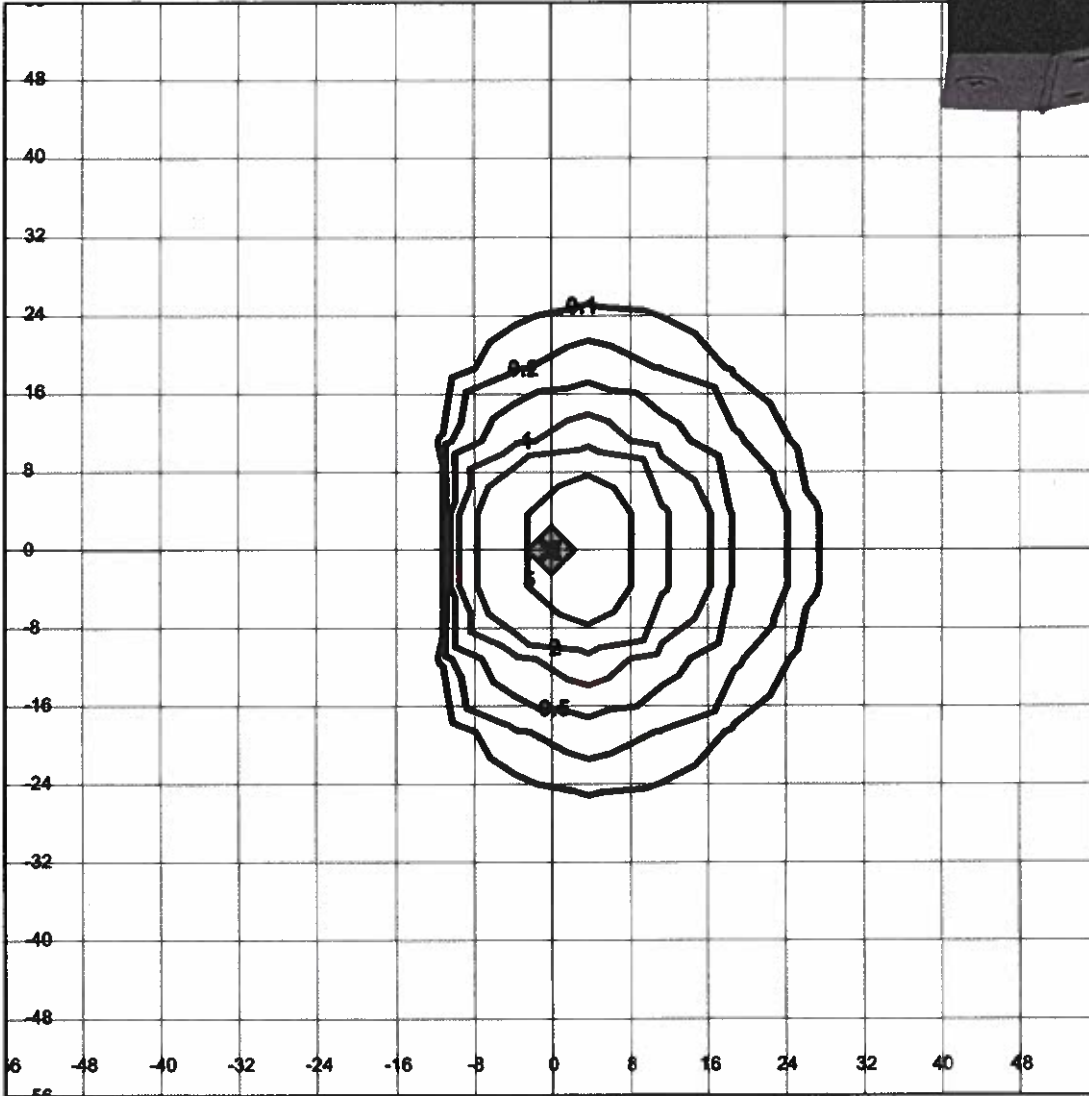
Number of Lamps : 1

Lamp Lumens : -1 lms

Luminaire Watts : 10 W

Scale: 0 16 32 feet

Arrangement Magnification: 100 %



Date : 25 Jun 2020

Title : Enter the title here...

Desc : Enter the description here...

Luminaire

IES Filename : rab02318.ies

Description : WPLED10Y (WALLPACK) - ALED10Y (AREA LIGHTER) - BLED10Y (Bollard)
CAST METAL HOUSING, ONE CIRCUIT BOARD WITH ONE LED, MOLDED PLASTIC

For : Client's name or company...

By : Your name or company...

Light Loss Factor : 1.00

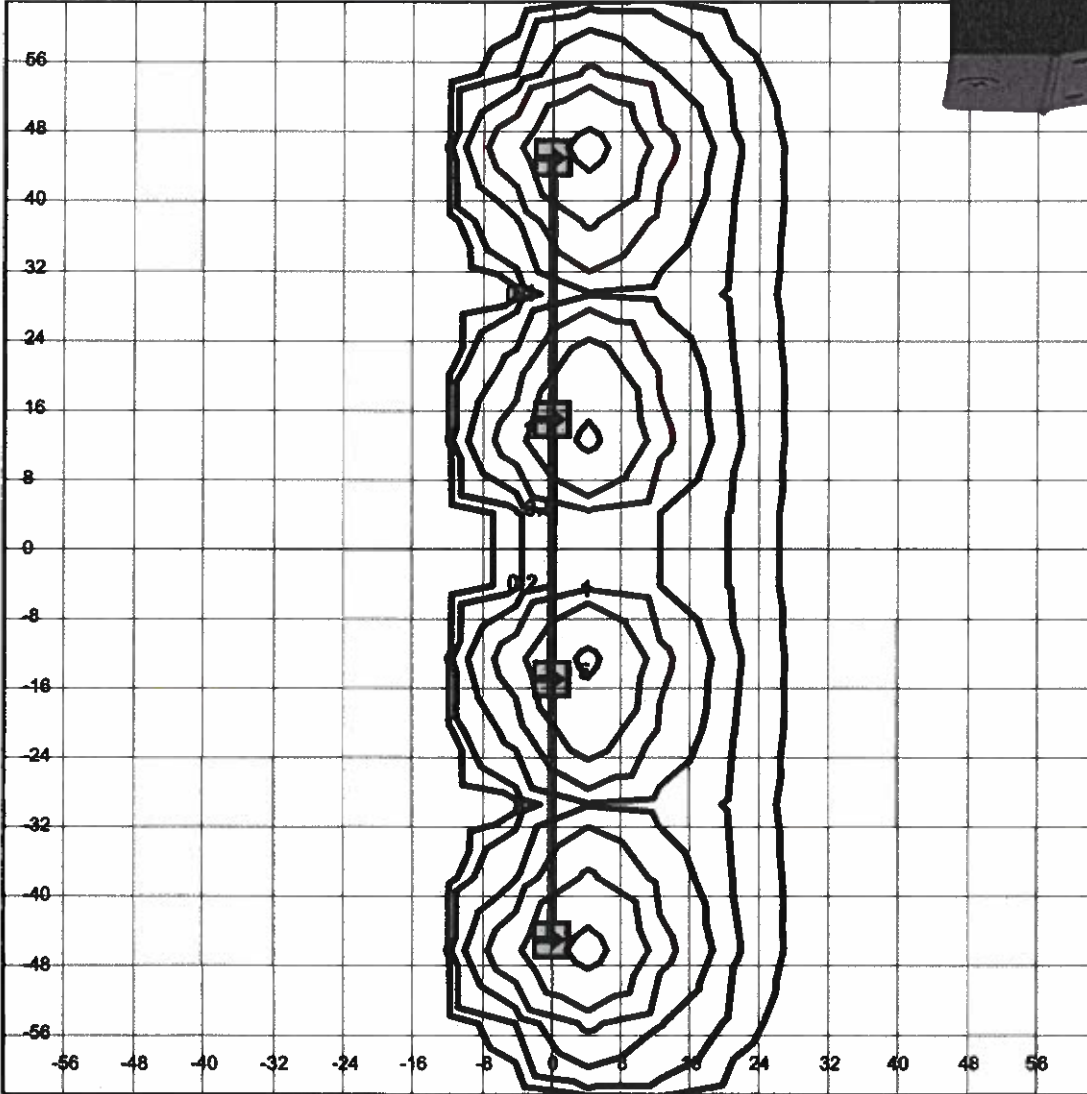
Number of Lamps : 1

Lamp Lumens : -1 lms

Luminaire Watts : 10 W

Scale: 0 18 36 feet

Arrangement Magnification: 100 %



MARCH 23, 2020



**Removal of Wastewater Treatment
, Rotary Distributors and LPP Field**
Corolla Light WWTP #1

ROBERT G BURGIN, JR. PE
BURGIN ENGINEERING, INC.
PO Box 1804, Irmo, SC 29063

Closure Plan for Removal of Wastewater Treatment Plant, Rotary Distributors and LPP Field Corolla Light WWTP #1

Statutory Authority and Permitting:

The project is permitted under the authority of the North Carolina Department of Water Resources, Water Quality Permitting Branch, Non-Discharge Permitting. Corolla Light #1 Wastewater Treatment Plant is authorized by Permit No. WQ0006254 dated November 1, 2016, to Carolina Water Service, Inc. of North Carolina for the continued operation of the subject wastewater treatment and high-rate infiltration facilities. This permit shall be effective from the date of issuance until October 31, 2021.



The facility uses two 40,000 gallon per day (GPD) rotary distributors; a 40,000 GPD high-rate spray infiltration bed; and all associated piping, valves, controls and appurtenances and a 40,000 gallon per day LPP disposal field; an 80,000 GPD wastewater treatment plant (train #1) consisting of: a manually cleaned bar screen; a 20,000 gallon flow equalization tank; a flow measuring and recording system; three aeration tanks; two clarifiers; two sludge holding tanks; tertiary filters; a tablet chlorinator; a chlorine contact tank; and all associated piping, valves, controls and appurtenances; an 80,000 GPD wastewater treatment plant (train #2) consisting of: a 20,000 gallon influent surge tank with a 100 cubic feet per minute (CFM) blower; an 80,000 gallon aeration tank served by two 327 CFM blowers; two 12,000 gallon clarifiers; a 7,500 gallon sludge holding tank; two 28 square foot (sq. ft.) tertiary filters; a tablet chlorinator; a 1,680 gallon chlorine contact tank; an effluent flow meter; an automatically activated emergency standby generator; and all associated piping, valves, controls and appurtenances;

and the disposal of: 40,000 GPD to the low-pressure pipe (LPP) system permitted by the Currituck County Health Department; to serve Corolla Light Resort Development as shown below.



The purpose of this report is to outline discontinuing of the facility uses of two 40,000 gallon per day (GPD) rotary distributors; a 40,000 GPD high-rate spray infiltration bed as well as train #1 and train #2 described above and the LPP subsurface disposal field.

All flow currently permitted to be treated at Corolla Light WWTP #1 is to be transferred to treatment at the Monterey Shores WWTP. The Monterey Shores WWTP is owned by Carolina Water Service, Inc. of N.C. Sewer force mains have already been constructed to connect the two systems together to allow treatment at Monterey Shores. Currently, part of the wastewater generated by Corolla Light is treated at the Monterey shores Facility. Once this closure plan goes into effect, all Corolla Light flow will be treated at Monterey shores.

The 40,000 GPD to the low-pressure pipe (LPP) system will remain available for use as repair for the proposed 40,000 GPD LPP system proposed for Monterey Shores WWTP. Under this proposal, the LPP field will not be removed. It will be cleaned and capped off in a manner to allow its use as a repair area in the future.

The forcemains currently routing wastewater into the treatment plant will need to be rerouted to send flow to Monterey Shores directly. These rerouting will be permitted via NCDENR-WR Fast Track permitting.



On the east side of Ocean Trail (Phase 10), the removal of two (2) two 40,000 gallon per day (GPD) rotary distributors; a 40,000 GPD high-rate spray infiltration bed as well as train #1 and train #2 described above and all associated piping, electrical, equipment and piping on Phase 10. Per the request of the property owner, the existing electrical service for the wastewater treatment plant will not be removed. The property owner for Phase 10 (Florida OBX #10 LLC) only wishes that the property be backfilled to approximately the existing grade of the site. Florida OBX #10 LLC expects to make extensive grading changes to the property by means of its development plan including compaction and verification as needed during its own construction efforts.

Closure Plan Implementation Responsibilities:

Outer Banks Ventures, Inc. is responsible for removing all underground piping and associated structures designated to be removed under this closure plan as well as all physical structures associated with the wastewater treatment plant. Carolina Water Service, Inc. of North Carolina is responsible for the removal of all wastewater and sludge associated with the wastewater treatment plant and its associated piping. All wastewater as determined by Carolina Water Service, Inc. of NC (CWSNC) shall be pumped through the existing force mains to the Monterey Shores wastewater treatment plant for treatment and disposal. Atlantic Sewage, Inc. as the approved contractor for CWSNC, will remove all waste sludge to the permitted land application site.

Once all water and solids have been removed from the facility by CWS, the steel plant shall be thoroughly cleaned by pressure washing by OBV, and the water pumped to Monterey Shores for final treatment by Carolina Water Service, Inc. of NC. The Project Engineer (Burgin Engineering, Inc.), upon notification by CWS, shall inspect the plant and certify to all parties that the plant is ready for demolition

and salvage operations to begin within seven (7) days of notification. Upon Engineer's certification, CWS shall remove all equipment which the company wishes to keep. CWS shall inform OBV and the Project Engineer when CWS is ready for demolition to begin. OBV's contractor shall cut the plant into transportable section that will not retain water. The steel shall be transported to a licensed salvage yard for disposal. Foundational concrete shall be broken into acceptable size pieces for transportation to an approved land fill or a crushing facility for use as gravel on property owned by OBV or Florida OBX #10 LLC. The excavation caused by removal of the old wastewater plant shall be backfilled with sand approved by the Project Engineer and Florida OBX #10 LLC. The sand backfill shall be compacted per the direction of Florida OBX #13 LLC and the Project Engineer. The site shall be brought back to existing grade. All piping to and from the existing wastewater plant shall be completely removed and disposed of at an approved land fill. All electrical lines shall be disconnected from the power service. By request to the purchaser of the Phase 10 parcel upon which Corolla Light #1 WWTP resides, the existing electrical service and transformer shall be left after closer.

Compliance Testing:

Carolina Water Service, Inc. of N.C. will collect the three (3) samples from all active monitoring wells in the three consecutive months following demolition for the following:

Fecal Coliform
Nitrate
Total Nitrogen
Total Dissolved Solids
Chloride
Total Organic Carbon

If the samples collected are within acceptable limits then OBV shall be free after release by regulatory authorities to remove all monitoring wells that are located on Phase 10 owned by Florida OBX#10, LLC. These wells are #1, #2, #3 and #7. Wells #4, #5 and #6 shall remain

The certified results of these tests and all laboratory analytical data, including QA/QC shall be delivered to Carolina Water Service Inc. of North Carolina, and Outer Banks Ventures, Incorporated at the following addresses:

Carolina Water Service, Inc. of N.C.
4944 Parkway Plaza Boulevard, Suite 375
Charlotte, N.C. 28217

Outer Banks Ventures, Inc.
PO Box 549
Corolla, NC 27927

Monitoring Well Removal:

There are seven (7) monitoring wells located on the properties associated with the Corolla Light WWTP #1. The wells are shown in the aerial photograph below. Three (3) monitoring wells were located on Currituck County Whalehead Club property. The wells located on the Whalehead property shall not be

abandoned as the LPP field associated with these wells will remain as repair for a proposed LPP field to be located at Monterey Shores. Four (4) wells were located on what was originally Phase 10. The four (4) wells will be removed properly by a NC Licensed Well Driller and the driller shall provide completed Abandonment Records to North Carolina Well Contractors Certification Commission, and the Project Engineer.

OBV shall provide a copy of the Abandonment Record to Florida OBX #10 LLC as well as Carolina Water Service, Inc. of N.C.. The Project Engineer shall provide a copy of the Abandonment Record to NCDENR-WR Land Application Section.

Figure 1 – Aerial Map

