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December 8, 2023

Derrick Caruthers, P.E.
DNREC Division of Water
89 Kings Highway
Dover, Delaware 19901



RE: **Wastewater Temporary Holding Tank Application**
PINE HAVEN CAMPGROUND – PHASE 1
Sussex County, Delaware
BMG Project No.: 2022308.00

Dear Mr. Caruthers:

Becker Morgan Group, Inc. is hereby submitting a permit application and supplemental documentation for the above referenced project on behalf of our client, Blue Beach Bungalows DE, LLC for your review and approval. This application is made regarding the Corrective Action Plan for the Pine Haven Campground. The previously provided Letter of Intent, dated October 27, 2023, describes the two phased approach for Corrective Action Plan. The attached application are intended to satisfy Phase 1 (Holding Tank - Pump and Haul) of the Corrective Action Plan.

It should be noted this project utilizes several on-site gravity sewer collection systems, eleven (11) E-One grinder pump stations and a series of small diameter force mains which are ultimately conveyed to the temporary holding tank location. In addition to this application, a wastewater collection and conveyance system permit application is being made under separate cover. The following documentation has been included in this submission:

- One (1) Application for the Temporary Holding Tank
- One (1) Cut Sheets of the Proposed Holding Tanks and Appurtenances
- One (1) Plan Review and Public Notice fee in the amount of \$960.00 (Check no. 3533)
- One (1) Sussex County 5-year commitment letter (To be Provided)
- One (1) Wastewater Pump and Haul contract (To be Provided)

We request that you review the attached information and provide any comments that you may have. Feel free to contact me with any questions or concerns.

Sincerely,

BECKER MORGAN GROUP, INC.

Jon S. Falkowski, P.E.
Associate Principal

Cc: Emily Demarco – Blue Beach Bungalows DE, LLC (edemarco@bwdc.com)
John Rebar, Jr. – DNREC Div. of Water (john.rebar@delaware.gov)
Brian Carbaugh (bcarbaughpe@outlook.com)
Mike Riemann (mriemann@beckermorgan.com)

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BECKER MORGAN GROUP, INC.

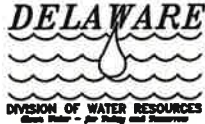
309 SOUTH GOVERNORS AVENUE
DOVER, DELAWARE 19904
302.734.7950

THE TOWER AT STAR CAMPUS
100 DISCOVERY BOULEVARD, SUITE 102
NEWARK, DELAWARE 19713
302.369.3700

PORT EXCHANGE
312 WEST MAIN STREET, SUITE 300
SALISBURY, MARYLAND 21801
410.546.9100

3333 JACOBLE DRIVE, SUITE 120
WILMINGTON, NORTH CAROLINA 28403
910.341.7600

www.beckermorgan.com



APPLICATION - PERMIT
ON-SITE WASTEWATER SYSTEM



Owner's Name: Blue Beach Bungalows DE, LLC. Phone: (410) 213-1900x1181
Address: 9919 Stephen Decatur Highway, Ocean City, MD 21842
Project Location: Pine Haven Campground - N side of Pine Haven Rd.; +/-660 ft. west of Benson Rd. Tax Map #: 230-7.00-46.00
Application Preparer: Brian C. Carbaugh, P.E. DNREC License #: 2043
Preparer's Address: 531 Lakewood Pl., Dover, DE 19904 Phone: (302) 745-2595

I hereby affirm that the information provided on this document is accurate and complete.



Preparer's Signature

12/8/2023

Date

SEPTIC DESIGN CRITERIA -

(Please check all boxes that apply)

CF=Cap & Fill / FD=Full Depth

Type of Construction:

System Type:

- [X] Replacement
[] New Construction
[] Component Replacement
[] Repair to Existing System
[] Authorization to Use Existing System
[] Other:

- [] Low Pressure Pipe (FD)
[] Elevated Sand Mound
[] Pressure Dose (FD)
[X] Holding Tank
[] Gravity (FD)
[] Std. Pressure Dose (FD)
[] Std. Pressure Dose (CF)

- [] Low Pressure Pipe (CF)
[] Wisconsin At-Grade
[] Pressure Dose (CF)
[] Subsurface Micro Irrigation
[] Gravity (CF)
[] Other:

[] Bed or [] Trench

Sand-lined [] Yes [] No

[] Gravelless Chamber or [] Stone/Gravel

Existing System Malfunctioning [] Yes [] No [X] N/A

Pre-Treatment Units

- [] Bio-Clear [] Klargester
[] Septic Tank [] Recirculating Sand Filter
[] Other:

199 Campsites
of Bedrooms: w/Sewer Hook-Up 75 gpd ea.
Average Percolation Rate: N/A
Gallon Per Day Flow: 14,925 GPD
Minimum Square Ft. Required: N/A
Square Ft. Proposed: N/A

Central Water Available [] Yes [X] No

(If yes, please state Utility Name:)

- SITE PLAN -

Scale: 1" = 50 ft.

Indicate North:



LUELLA DR

WEAKFISH DR

FENCE, TYP.

+165.36 FT

FM FROM COLLECTION SYSTEM, CONNECT TO 3" FILL ON TANK 1

APPROXIMATE CAMPSITE LOCATION, TYP. 199 TOTAL

PROPOSED 2 - 21,00 GALLON PORTABLE STEEL HOLDING TANKS (OR EQUAL) 42,00 GALLON TOTAL CAPACITY SEE MANUFACTURERS PRODUCT INFORMATION ATTACHED

NELSON DR

4" FLEXIBLE HOSE TANK INTERCONNECTION

TANK 2

TANK 1

HWL ALARM MOUNT ADJACENT TO TANK

±30 FT.

±325.37 FT.

±65 FT.

PINE HAVEN RD

A=±199.87 FT. R=±525.00 FT.

NO WELLS WITHIN 50 FT. NO WATERLINES WITHIN 10 FT. OF PROPOSED HOLDING TANKS



12/8/2023

Owner's/Authorized Agent Signature:

Jon Talbowski

Date: 12/08/23

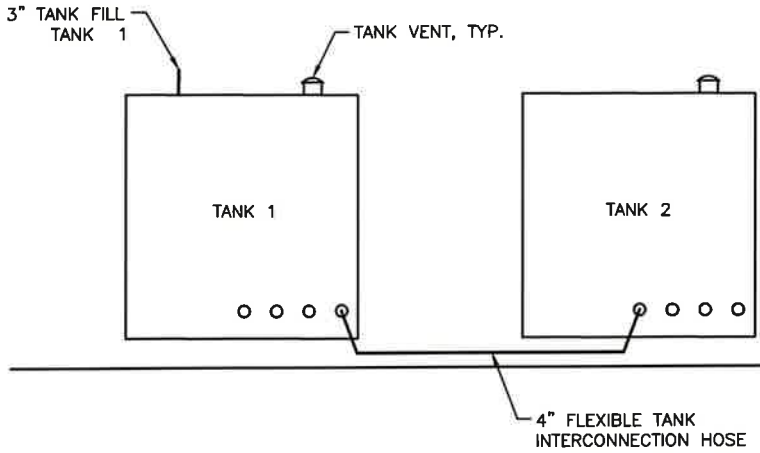
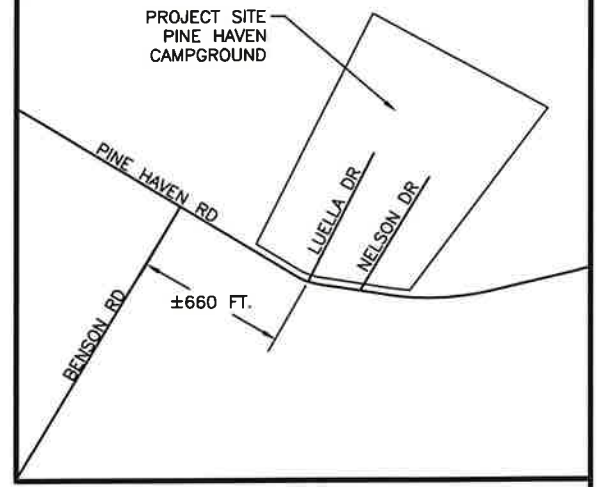
* A copy of this page must be submitted with both the on-site wastewater system and well construction report(s).

- CROSS SECTION -

A LICENSED LIQUID WASTE HAULER
TO INSPECT AND PUMP THE
TEMPORARY HOLDING TANK LEVELS
EVERY TWO (2) DAYS

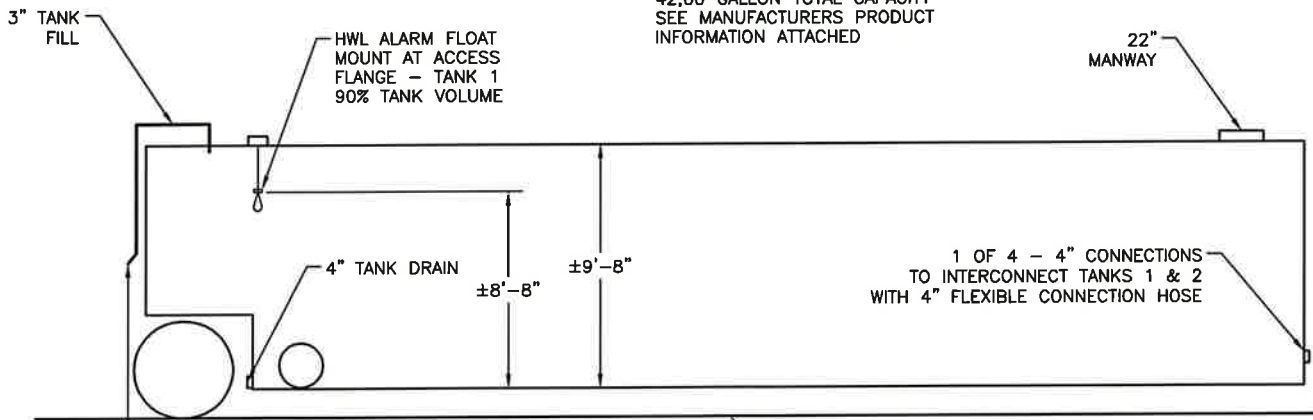
TEMPORARY HOLDING TANK
SUSSEX COUNTY TO PROVIDE SEWER SERVICE
WITHIN 5 YEARS

Draw a general location map of project location
and give distance to nearest road junction.



INSULATE AND HEAT TAPE EXPOSED
PIPING TO AVOID FREEZING

PROPOSED 2 - 21,00 GALLON
PORTABLE STEEL HOLDING TANKS (OR EQUAL)
42,00 GALLON TOTAL CAPACITY
SEE MANUFACTURERS PRODUCT
INFORMATION ATTACHED



COLLECTION SYSTEM FM
CONNECT TO 3" TANK
INLET - TANK 1

PREPARE TANK
PLACEMENT SITE PER
MANUFACTURER'S
RECOMMENDATIONS



Tank Size: 12/8/2023
 $14,925(\text{G.P.D}) \times 2 \text{ Days} = \underline{29,850 \text{ GALLON}}$ Minimum Required Capacity
42,000 Gal. Tank Proposed

Steel Tank

Flat Top Corrugated Wall Tank

Overview:

Store liquids with confidence with Rain for Rent's 21,000-gallon Flat Top Corrugated Wall tank. Permanently attached axles, for maximum maneuverability, allows this tank to be moved with ease on the jobsite. The staircase ensures proper protection for workers on site. The tank also offers optional epoxy coating, which offers chemical resistance and additional cleanliness for sensitive environmental applications.

Features:

- Vapor Tight Tanks: rated to 16oz/in² of pressure and 0.4oz/in² of vacuum
- V-drain floor with front and rear 4" 150-lb flanges with valves
- OSHA Compliant Stairway
- 1.5" SCH80 level gauge port
- 8" External manifold or internal manifold
- Rear 3" or 6" SCH40 fill line
- Optional: Epoxy Coating - chemical resistance for a wide variety of chemical compatibility and keeps stored product within the tank cleaner
- Optional: Steam Coils

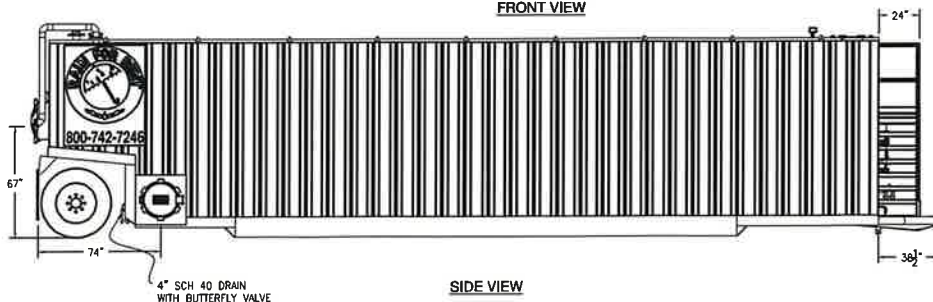
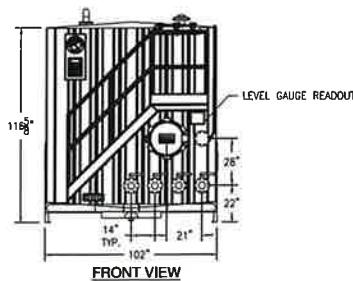
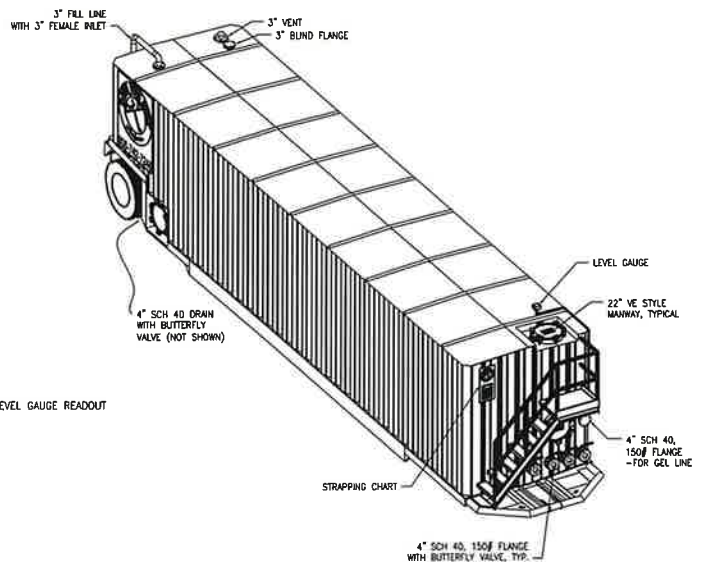


Accessories:

- E-CONTAIN® Spillguards
- SolidGround® Traction Mats
- Radar Level Gauge
- Mechanical Level Gauge
- PipeStax®
- HoseTrax®
- Suction and Discharge Hose

Specs:

Material	Steel, Epoxy Coated (Option)
Capacity	21,000 gallons
Manways	Four 22" hatches
Dry weight	27,000 lbs.
Footprint (LxWxH):	560" x 102" x 120"



PUMPS • TANKS • FILTRATION • PIPE • SPILLGUARDS

Rain for Rent is a registered trademark of Western Oilfields Supply Company. Features and specifications are subject to change without notice.

Liquid Ingenuity,
800-742-7246
rainforrent.com

TANK ALERT® XT ALARM SYSTEM

Versatile, Indoor or Outdoor Liquid Level Alarm System

This alarm system monitors liquid levels in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, and other water applications.

The Tank Alert® XT indoor/outdoor alarm can serve as a high or low level alarm depending on the float switch model used.

The alarm horn sounds and the red LED beacon illuminates when a potentially threatening liquid level condition occurs. The horn can be silenced, but the alarm light remains on until the condition is remedied. Once the condition is cleared, the alarm will automatically reset.

A "power on" light on the switch indicates power to the alarm panel.

FEATURES

- Enclosure meets Type 3R water-tight standard
- Automatic alarm reset, horn silence switch, and alarm test switch
- Alarm horn sounds at 85 decibels at 10 feet (3 meters)
- Alarm system (when installed on separate circuit) operates even if pump circuit fails

OPTIONS

When ordered with the alarm, the system is available with:

- Alternate float switch models for high or low liquid level warning
- Auxiliary dry normally open contacts for easy attachment of remote devices
- Premounted terminal block so enclosure can also be used as a junction box for splicing pump, pump switch, and pump power; meets NEC standard for junction boxes
- 6 foot (1.8 meter) power cord and liquid-tight connectors



TANK ALERT® XT - Versatile, indoor or outdoor liquid level alarm system.

Part #	Description (120V)	Shipping Weight
1009923*	TAXT-01H (120 VAC w/15' SJE SignalMaster® High Level)	3.00 lbs.
1010251	TAXT-01L (120 VAC w/15' SJE SignalMaster® Low Level)	3.00 lbs.
1004442	TAXT-01H (120 VAC w/15' Sensor Float® High Level)	3.00 lbs.
1005140	TAXT-01L (120 VAC w/15' Sensor Float® Low Level)	3.00 lbs.
1005141	TAXT-01X (120 VAC no float)	1.50 lbs.
Part #	Description (120V with Terminal Block)	Shipping Weight
1012416	TAXT-01HAUXTB (120 VAC w/15' SJE SignalMaster® High Level Aux Con TB)	3.50 lbs.
1022241	TAXT-01HTB (120 VAC w/15' SJE SignalMaster® High Level TB)	3.50 lbs.
1005481	TAXT-01HTB (120 VAC w/15' Sensor Float® High Level TB)	3.50 lbs.
1005835	TAXT-01LTB (120 VAC w/15' Sensor Float® Low Level TB)	3.50 lbs.
1005836	TAXT-01XTB (120 VAC no float TB)	2.00 lbs.
1009214	TAXT-01HAUXTB (120 VAC w/15' SJE Sensor Float® High Level Aux Con TB)	3.50 lbs.
Part #	Description (120V with Options)	Shipping Weight
1006850	TAXT-01HAUX (120 VAC w/15' Sensor Float® High Level Auxiliary Contacts)	3.50 lbs.
1006690	TAXT-01HPC (120 VAC w/15' Sensor Float® High Level Power Cord)	3.50 lbs.
1032257	TAXT-01HAUX (120VAC w/ 15' SJE SignalMaster® High Level Auxiliary Contacts)	3.1 lbs.
1057473	TAXT-01HPC (120 VAC w/15' SJE SignalMaster® High Level Power Cord)	3.3 lbs.
OPTION AUX	Auxiliary contacts (factory installed option only)	N/A
OPTION PC	6' power cord with two RCC8 1/2" liquid-tight connectors	N/A

*This item is an SJE Rhombus Quick Ship product which normally ships within 1 business day from receipt of order at no additional charge.

H = High Level L = Low Level X = No Float TB = Includes Terminal Block PC = Power Cord AUX = Auxiliary Contacts

MASTER CARTON holds 12 boxed units.

CONTROL SWITCH OPTIONS

The Tank Alert® XT alarm system comes standard with a 15 foot SJE SignalMaster® control switch with mounting clamp. Other float switches are available. See control switch section of the catalog. To determine the price of alarm with an alternate float, add the price of the part number with "no float" to the price of the float switch.

SPECIFICATIONS

VOLTAGE: 120 VAC, 50/60 Hz

ALARM ENCLOSURE: 6.5 x 4.5 x 3 inches (16.51 x 11.43 x 7.62 cm), indoor/outdoor, weatherproof, thermoplastic, meets Type 3R water-tight standard

ALARM HORN: 85 decibels at 10 feet (3 meters), meets Type 3R water-tight standard as installed by factory

ALARM BEACON: UL Listed, Type 4X beacon assembly

TEST/SILENCE SWITCH: certified to IP66 and IP68 standards

AUXILIARY ALARM CONTACTS (OPTIONAL): 120 VAC, 5 amps max., 50/60 HZ

PRE-MOUNTED TERMINAL BLOCK (OPTIONAL): 20 amps, 120/230 VAC

POWER CORD: (optional) 6 foot (1.8 meters) cord with 120 VAC plug and two RCC8 1/2 inch liquid-tight connectors

FLOAT SWITCH: SJE SignalMaster® control switch with mounting clamp

CABLE: 15 feet (4.57 meters), flexible 18 gauge, 2 conductor (UL) SJOW, water-resistant (CPE)

FLOAT: 2.74 inch diameter x 4.83 inch long (7 cm x 12.3 cm), high impact, corrosion resistant polypropylene housing for use in sewage and non-potable water up to 140°F (60°C)

MAXIMUM WATER DEPTH: 30 feet (9 meters), 13 psi

ELECTRICAL: 5 amps, 125 VAC/250 VAC, 50/60 Hz

PARID: 230-7.00-46.00
PINE HAVEN CAMPGROUND LLC

Sussex County Records Pending Update:
Owner: Blue Beach Bungalows DE, LLC.
Address: 9919 Stephen Decatur Highway, Ocean City, MD 21842.

Property Information

Property Location:

Unit:
City:
State:
Zip:

Class: EXM-Exempt
Use Code (LUC): MX-MISCELLANEOUS
Town: 00-None
Tax District: 230 – CEDAR CREEK
School District: 6 - CAPE HENLOPEN
Fire District: 42-Carlisle
Deeded Acres: .0000
Frontage: 0
Depth: .000
Irr Lot:
Plot Book Page: /PB

100% Land Value:
100% Improvement Value \$0
100% Total Value

Legal

Legal Description GIS TIEBACK
DUMMY ACCOUNT

Owners

Owner	Co-owner	Address	City	State	Zip
PINE HAVEN CAMPGROUND LLC		4 VICTORIA DR	MILFORD	DE	19963

Sussex County Records Pending Update:
Owner: Blue Beach Bungalows DE, LLC.
Address: 9919 Stephen Decatur Highway, Ocean City, MD 21842.