

Ben-Tech LLC

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August 26, 2024

Bart Allen
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**Reference: Grenelefe UEA
Utility Conversion Data Analysis**

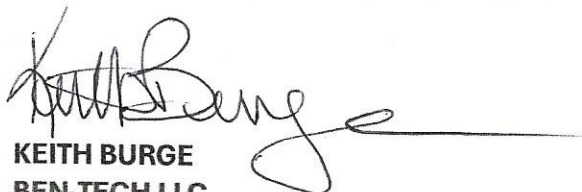
Mr. Allen,

Grenelefe wastewater plant, permitted with the FDEP (permit #FLA013016), currently has an already fully built plant capacity of 680,000 GPD, with 340,000 currently permitted by the FDEP. As new development occurs, the full plant capacity can be brought back online as needed with upgrades. Currently the existing residents and commercial are utilizing 120,000 GPD (averages, based on 12-month use). The proposed new development consisting of 2,069 single family units and 60,000 SF of commercial will need a set aside capacity (Polk County Utility Standards) of 537,188 GPD, see breakdown in below chart.

The existing plant can, with upgrades preformed as required, handle all the existing customers in addition to the proposed 2,069 residential units and 60,000 SF of commercial space. The existing customers and the single family and commercial space will not exceed the 680,000 GPD permitted plant.

PROPOSED UNITS	NO.	UNIT	GPD MULTIPLIER	SUBTOTAL GPD
TOWNHOMES (SINGLE FAMILY ATTACHED)	419	PER UNIT	244	102,236
34'X120' (SINGLE FAMILY ATTACHED)	38	PER UNIT	244	9,272
50'X120' (SINGLE FAMILY DETACHED)	1010	PER UNIT	260	262,600
60'X120' (SINGLE FAMILY DETACHED)	574	PER UNIT	260	149,240
125'X160' (ESTATE LOTS)	28	PER UNIT	280	7,840
OTHER NONE RESIDENTIAL (COMMERCIAL - RETAIL)	60,000	PER 1 S.F.	0.1	6,000
TOTAL GDP REQUIRED =				537188

In my professional opinion the existing plant can, with upgrades performed as necessary, handle all the existing customers in addition to the proposed 2,069 residential units and 60,000 SF of commercial with the existing 680,000 gpd permitted plant.


KEITH BURGE
BEN-TECH LLC



FLORIDA DEPARTMENT OF Environmental Protection

Southwest District Office
13051 N Telecom Pkwy, Suite 101
Temple Terrace, Florida 33637-926

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

NC Real Estate Projects, LLC

RESPONSIBLE OFFICIAL:

Mr. Jason Cox, Managing Member
110 Wades Way, Unit 134
 Mooresville, NC 28117
(704) 996-4543
ndjasoncox@gmail.com

PERMIT NUMBER: FLA013016
FILE NUMBER: FLA013016-009-DW2P/NR
ISSUANCE DATE: November 16, 2022
EFFECTIVE DATE: November 16, 2022
EXPIRATION DATE: November 15, 2027

FACILITY:

Grenelefe Resort WWTF
4501 Abbey Court
Haines City, FL 33844-9720
Polk County
Latitude: 28°3' 45" N Longitude: 81°32' 42" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. This permit is accompanied by an Administrative Order, pursuant to paragraphs 403.088(2)(e) and (f), Florida Statutes. Compliance with Administrative Order, AO-037SWD22, is a specific requirement of this permit. The above-named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

An existing 0.680 million gallons per day (MGD) Three-Month Rolling Average Daily Flow (3MRADF), Type I, extended aeration domestic wastewater facility, limited to operate at 0.340 MGD 3MRADF Type II, as long as R-001 is the only effluent disposal system. The treatment plant consisting of: ten aeration basins of 682,187 gallons total volume, four clarifiers of 113,312 gallons total volume and 1,637 square feet of total surface area, seven deep bed automatic backwash filters of 448 square feet designated to handle 472 gallons per minute (GPM), three pre-filter chlorine contact chambers of 21,654 gallons total volume, one post chlorine contact chamber of 19,947 gallons, one effluent pump wetwell of 9,973 gallons, and three digesters of 54,442 gallons total volume. This plant is operated to provide secondary treatment with basic disinfection.

REUSE OR DISPOSAL:

Land Application R-001: An existing 0.340 MGD annual average daily flow (AADF) permitted capacity rapid infiltration basin (RIB) system. R-001 is a reuse system which consists of a four-cell RIB of 100,188 square feet of bottom surface area. R-001 is located approximately at latitude 28°3' 45" N, longitude 81°32' 42" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 18 of this permit.