



PROJECT ADDRESS: 1800 State Road 84

Date request was received:11/30/2021

DRC CASE#: UDP-SR-21002

Project Name: Uhaul

IF NO DRC CASE NUMBER PROVIDED, WATER & SEWER AVAILABILITY LETTER TO BE PROVIDED UPON PAYMENT OF ENCLOSED A/R INVOICE.

The following analysis is only VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF

*****IMPORTANT INFORMATION*****

ISSUANCE. After which point, a reanalysis must be conducted to ensure adequate availability for projects. Modifications to small project that require capacity re-analysis......\$960 ☑ Water and Sanitary Sewer Capacity Allocation Letter (Large Project)\$2,400 Modifications to large project that require capacity re-analysis......\$2,400

PUBLIC WORKS DEPARTMENT

100 N. ANDREWS AVE, FORT LAUDERDALE, FLORIDA 33301 TELEPHONE (954) 828-5772, FAX (954) 828-5074 WWW.FORTLAUDERDALE.GOV

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February 4, 2022

Gerardo Zamora P.E. Zamora and Associates Inc. 11410 N. Kendall Drive. Suite 302 Miami, FL 33176

WATER AND WASTEWATER CAPACITY AVAILABILITY LETTER Subject:

> Uhaul - DRC Case No. UDP-SR-21002 1800 State Road 84, Ft. Lauderdale, FL 33315

Dear Gerardo Zamora,

According to the information submitted, the project consists of proposing a 6-story self-storage facility. There are proposed water and sewer connections to City of Fort Lauderdale (City) utilities along State Road 84. This project lies within the City's Pump Station (PS) C-27 basin and will increase the average day water demand by approximately 0.0018 million gallons per day (MGD) and the average day sewer demand by approximately 0.0014 MGD. The existing water and sewer infrastructure have the capacity to support the proposed development and no improvements are needed.

If there are changes to the proposed development after issuance of this capacity availability letter, the Owner or Owner's authorized representative shall submit a revised request based on the updated plans. Failure to seek approval prior to changing the plans may result in revocation of permit and capacity allocation. The determination of capacity availability is based upon tools and data analysis as of the date of this letter. Availability of capacities, as calculated in the attached analysis, is not guaranteed and no existing system capacity shall be considered "committed" for this project until a permit has been issued and all fees have been paid. The City reserves the right to re-evaluate the availability of capacities at the time of permit application. If sufficient capacities are not available, the City may deny the permit application or ask the Owner/Developer to submit an alternate design prior to approval. Information contained in this letter will expire one year from the date issued.

Should you have any questions or require any additional information, please contact me at (954) 828-5115.

Sincerely,

Gabriel Garcia, E.I. Project Manager II

Enclosures: Water and Wastewater Capacity Analysis Alan Dodd, P.E., Public Works Director

Talal Abi-Karam, P.E., Assistant Public Works Director

Omar Castellon, P.E., Assistant Chief Engineer

Dennis Girisgen, P.E., City Engineer File: Water and Sewer Capacity Letters

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City of Fort Lauderdale **Public Works Department** Water and Wastewater Capacity Analysis

Uhaul - DRC Case No. UDP-SR-21002 1800 State Road 84, Ft. Lauderdale, FL 33315

PROJECT AND DESCRIPTION

The project consists of proposing a 6-story self-storage facility totaling 114,264 square feet.

DESCRIPTION OF EXISTING UTILITIES

Water: The site is currently served by a 6-inch water main along State Road 84, north of the project site. See Figure 1.

Wastewater: The site is currently served by an 8-inch gravity sewer main along State Road 84, north of the project site. See Figure 2.

Pumping Station: The site is served by PS C-27 which is located near the intersection of SW 18th Terrace and SW 30th Street.

SUMMARY OF ANALYSIS AND REQUIRED ACTION

The existing infrastructure has the capacity to support the proposed development. Therefore, no improvements are needed.

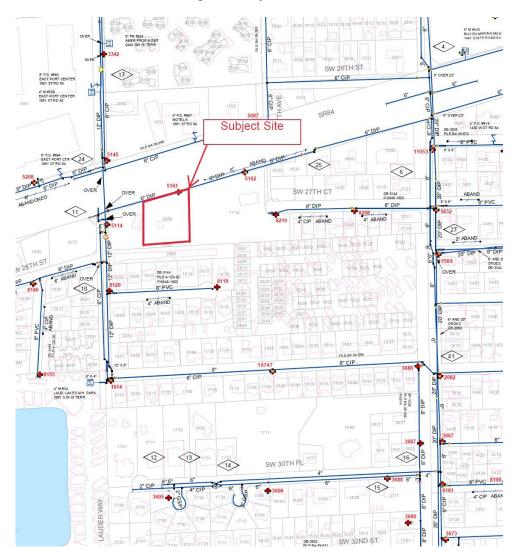








Figure 1 - City Water Atlas



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Figure 2 - City Sewer Atlas



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WATER CAPACITY ANALYSIS

Requested Demand: Based on the applicant's site plan and building use information, the estimated average day potable water demand is approximately 1793 gallons per day (GPD), which equates to 0.0018 MGD. Average day water use demands are calculated by reducing the calculated max day water use demands by a factor of 1.3 as determined in the City's Comprehensive Utility Strategic Master Plan. The max day water use demands are calculated using the City's Guidelines for the Calculations of Sanitary Sewer Connection Fees and are based on City Ordinance No. C-19-29.

Evaluation of impact on existing distribution pipe: According to the site plan, the applicant is proposing to utilize the 6-inch water main along S.W. 25th Street. The InfoWater hydraulic model was analyzed to determine the impact of this project on the existing 6-inch water main.

Evaluation of impact of Permitted Water Plant Capacity: The Fiveash and the Peele Dixie Water Treatment Plants are designed to treat 70 MGD and 12 MGD of raw water respectively (82 MGD total). The total permitted Biscayne aquifer water withdrawals for these plants is limited to 52.55 MGD per the South Florida Water Management District (SFWMD) permit number 06-00123-W.

The current twelve-month rolling average production at the two plants is 37.51 MGD. The previously committed demand from development projects in the permitting or the construction stage is 4.78 MGD. Combining these figures with the demand from the proposed project of 0.0018 MGD, the required production would be 42.29 MGD. This is less than the allowable withdrawal limit of 52.55 MGD. Therefore, the water plants have sufficient capacity to serve this project. See Figure 3 below.

Recommended Water Infrastructure Improvements: No improvements required.

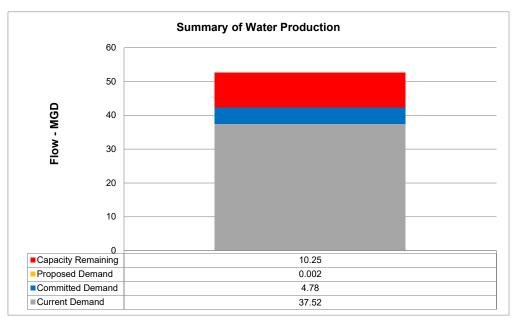


Figure 3

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WASTEWATER CAPACITY ANALYSIS

Requested Demand: Based on the applicant's site plan and building use information, the estimated average day sewer use demand is approximately 1360 GPD, which equates to 0.0014 MGD. Average day sewer use demands are calculated using the City's Guidelines for the Calculations of Sanitary Sewer Connection Fees and are based on City Ordinance No. C-19-29.

Evaluation of impact on existing collection pipe: According to the site plan, the applicant is proposing to utilize the 8-inch gravity sewer main to the north of the project site along S.W. 25th Street. Manual of Practice (MOP) 60, published by American Society of Civil Engineers (ASCE) for the gravity sewer design and used by the City staff, recommends that pipe diameters 15-inch or less be designed to flow half full during peak flows. The City uses a peak hourly flow factor of 3.0. Accounting for existing flows and based on the tools and information available to the City staff, it has been calculated that the pipes downstream of the proposed development will flow less than the ASCE-recommended 70% during peak flows. Therefore, the pipes downstream of the developments are adequate to serve the project.

Evaluation of impact on pumping station: PS C-27 has a duty point of 190 gallons per minute (GPM) and has a Nominal Average Pumping Operating Time (NAPOT) of approximately 6.00 hours per day. Based on projected sewage flows, the pumping run times would increase approximately 7 minutes per day. Additionally, there are other committed flows from proposed developments within the PS C-27 basin resulting in 1.05 minutes of additional runtime. PS C-27 will have a NAPOT of 6.14 hours once the proposed developments are complete, less than the recommended average of 10 hours per day. See Figure 4 below.

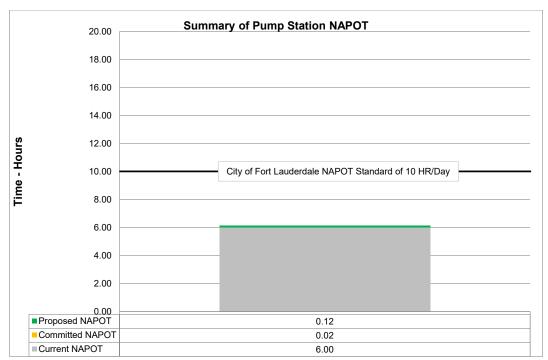


Figure 4

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Evaluation of impact of Permitted Wastewater Plant Capacity: The City of Fort Lauderdale owns and operates the George T. Lohmeyer Regional Wastewater Treatment Plant (GTL), which provides wastewater treatment for the City of Fort Lauderdale. The Broward County's Environmental Protection and Growth Management Department's (EPGMD) Environmental Licensing & Building Permitting Division's licensed capacity for GTL is 48 MGD-AADF (Million Gallons per Day – Annual Average Daily Flow). The annual average daily flow (AADF) to the plant is 39.47 MGD. Combining the committed flows for previously approved projects of 4.62 MGD plus the 0.0014 MGD net contribution from the project results in a total projected flow of 44.09 MGD. This is less than the permitted treatment plant capacity of 48 MGD. Therefore, the treatment plant has sufficient capacity to serve this project. See Figure 5 below.

Recommended Wastewater Infrastructure Improvements: No improvements required.

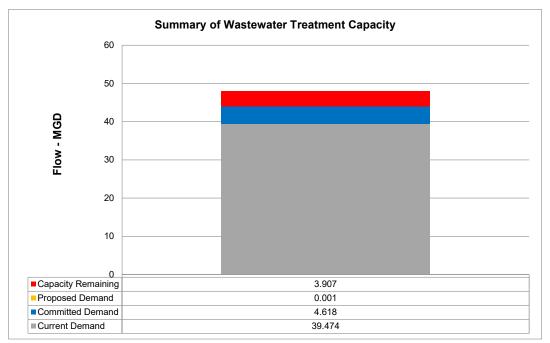


Figure 5

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April 19, 2021

To: City of Ft Lauderdale 700 NW 19th Avenue Fort Lauderdale, FL 33311

Subject: Trip Generation for U-Haul 788054

1800 W State Road 84

Below and attached is the Trip Generation analysis gathered from ITE Trip Generation, 10th Edition and our proposed Site Development plan. It should be noted that hours of operation are Monday through Thursday 7am to 7pm, Friday 7am to 8pm, Saturday 7am to 7pm and Sunday 9am to 5pm.

Mini-Warehouse Trips

The Mini-Warehouse trip generation using Land Use Classification ITE 151 is as follows and assumes the 114,264 square feet associated with the proposed building:

AM Trip Rate = 0.10 trips per 1,000 Sq. Ft. GFA AM trips = $114.3 \times 0.10 = 11$ trips PM Trip Rate = 0.17 trips per 1,000 Sq. Ft. GFA PM trips = $114.3 \times 0.17 = 19$ trips Daily Trip Rate = 1.51 trips per 1,000 Sq. Ft. GFA Daily trips = $114.3 \times 0.17 = 19$ trips

Sincerely,

David Pollock, Traffic Engineering AMERCO Real Estate / U-Haul International