

George T. Lohmeyer Wastewater Treatment Plant

Capacity Update



- State Permitting Standards
- County Permitting Standards
- DRC Capacity Analysis Process
- Factors Affecting Capacity
- Current Average Flows and Available Capacity
- Large User Agreements and Current Average Flows
- Actions to Improve Capacity



State of Florida Department of Environmental Protection (FDEP)

Domestic Wastewater Facility Permit

Permitted Capacity Based on 3-Month Average Daily Flow

56.6 MGD TMADF

Annual Capacity Analysis Report on Total Capacity

Only Required Every 5 Years for Permit Renewal

Monthly Reporting

- Monthly and Annual Average Flows
- Discharge Water Quality

FLORIDA

Florida Department of Environmental Protection

Governor

Jennifer Carroll
Lt. Governor

Southeast District Office 400 N. Congress Avenue, Suite 200 West Palm Beach, FL 33401

(561) 681-6600

ELECTRONIC CORRESPONDENCE September 7, 2011 In the Matter of an Application for Permit by:

City of Fort Lauderdale
Julie Leonard
Assistant Villities Services Director - Operation
949 NW 35th Street
Fort Lauderdale, F133009
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Permit Number FLA041378-012-DW1F File Number FLA041378 Broward County G.T. Lohmeyer WWTP

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA041378-012-DW1P to operate the Ft Lauderdale, City of - G.T. Lohmeyer WWTP, issued under Chapter 403. Florida Statutes.

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the Permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 12056 and 120.57; Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding the Sauring) under Sections 120.596 and 120.57, Florida Sauthust. The petition must contain the information set forth below and must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Adal Station 53, Tallabasses, Facilia 52599-5300.

Under Rule 62-110.106(4), Florida Administrative Code, a person may request an extension of the time for filing a petition for an administrative hearing. The request must be filed (seceived by the Clerk) in the Office of General Counsel before the end of the time period for filing a petition for an administrative hearing.

Petition by the applicant or any of the persons listed below must be filed within fourtiers days of receipt of this written notice. Pertinons field by any persons other than those entitled to voritten notice under Section 120 603.

Fiorial Statutes, must be filed within fourtiers days of publication of the notice or within fourtiers days of receipt of the written notice, whichever occurs first. Section 120 603, Finerial Statutes, however, also allows that any person who has asked the Department for notice of agency action may file a petition within fourtiers days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing.

The failure of any person to file a petition or request for an extension of time within fourteen days of receipt of

1

GTL Peak Operational Capacity = 93.5 MGD



Broward County Resilient Environment Department Wastewater Treatment Plant Operating License

Licensed Capacity Based on Annual Average Daily Flow

48 MGD AADF

Monthly Reporting

- Monthly and Annual Average Flows
- Discharge Water Quality

County Monitors Capacity Availability

Permit Applications Plus Average Flows

GTL Peak Operational Capacity = 93.5 MGD





Broward County Quarterly Report

Monitors Treatment Plant Capacities Based on Annual Average Daily Flow

 AADF plus Committed Flows per County Permit

County Considering Modifying to be Based on TMADF to be Consistent with FDEP

Wastewater Treatment Plant Flow Calculations for Facilities in Broward County

Based on the most recent 12-month rolling Annual Average Daily Flow Data (January 2022 – December 2022)

PLANT NAME	LICENSED CAPACITY (MGD-AADF)	COMMITTED FLOWS PER BLDG. PERMITS AS OF DECEMBER 31, 2022 (MGD)	ANNUAL AVERAGE DAILY FLOW (MGD)	TOTAL FLOW (MGD)	TOTAL FLOW PERCENT OF LICENSED CAPACITY (%)
BC North Reg. (BCN)	95.00	3.049	71.38	74.43	78.35%
Cooper City (COO)	3.44	0.209	2.61	2.82	81.93%
Coral Springs (CSI)	7.72	0.250	4.83	5.08	65.80%
Davie 2 (DA2)	4.85	0.147	2.00	2.14	44.22%
Davie MBR (DRF)	3.50	0.000	1.72	1.72	49.01%
Ferncrest	Not Available	Not Available	Not Available	Not Available	Not Available
(FEK)					
G.T. Lohmeyer (GTL)	48.00	1.477	43.59	45.07	93.89%
	55.50	1.050	20.00	44.40	74.700/
I-75 Rest Stop	0.025	0.000	0.011	0.011	43.33%

From ULDR Sec. 47-25.2 Adequacy Requirements

- 1. "the available capacity shall be determined by subtracting committed capacity and present flow from the design capacity"
- 2. If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the proposed development.

Flows are reserved at time of Development Permit approval if there is adequate capacity.



Committed Capacity Reserved for Approved Projects

Current Reserved Capacity = 3.923 MGD

Capacity Availability per County Operating License

48 MGD AADF

License Capacity – Present Flow (AADF) – Committed Capacity

48 MGD - 44.523 MGD - 3.923 MGD = **-0.446 MGD**

Capacity Availability per FDEP Permit

56.6 MGD TMADF

Permit Capacity – Present Flow (TMADF) – Committed Capacity

56.6 MGD - 45.362 MGD - 3.923 MGD = **7.315 MGD**

Projects Awaiting Site Plan Approval

- 0.988 MGD Pending
- ~30 More Projects in Queue for Analysis

Seasonal Variations

- Rainfall
- Groundwater Levels
- Inflow and Infiltration (I&I)

Committed/Permitted Future Flows

- Developments Retaining Entitlements from DRC
 - Construction Remains Pending
- Developments Obtaining Building Permits
 - Construction is Imminent



2023

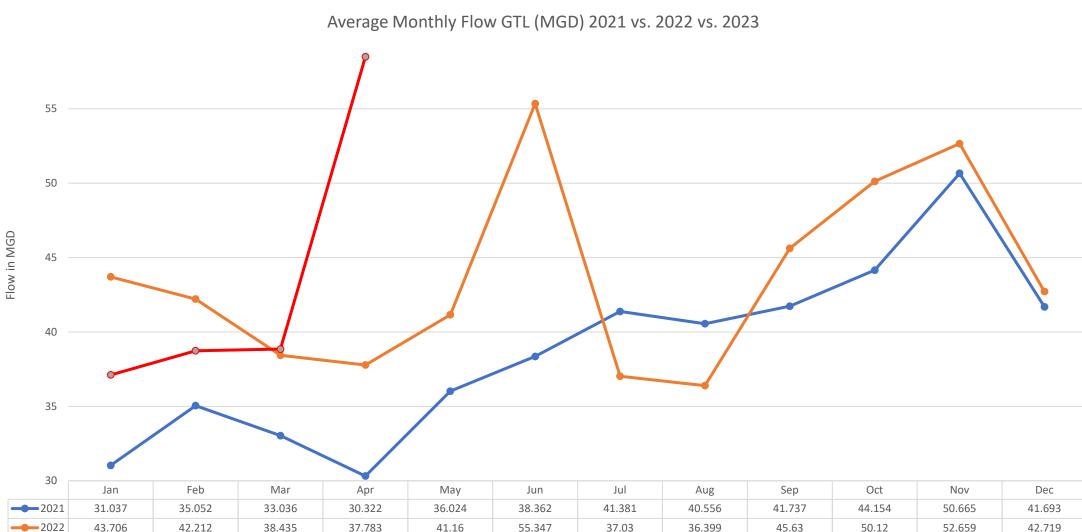
37.119

38.741

38.856

58.49

GTL Average Monthly Flow



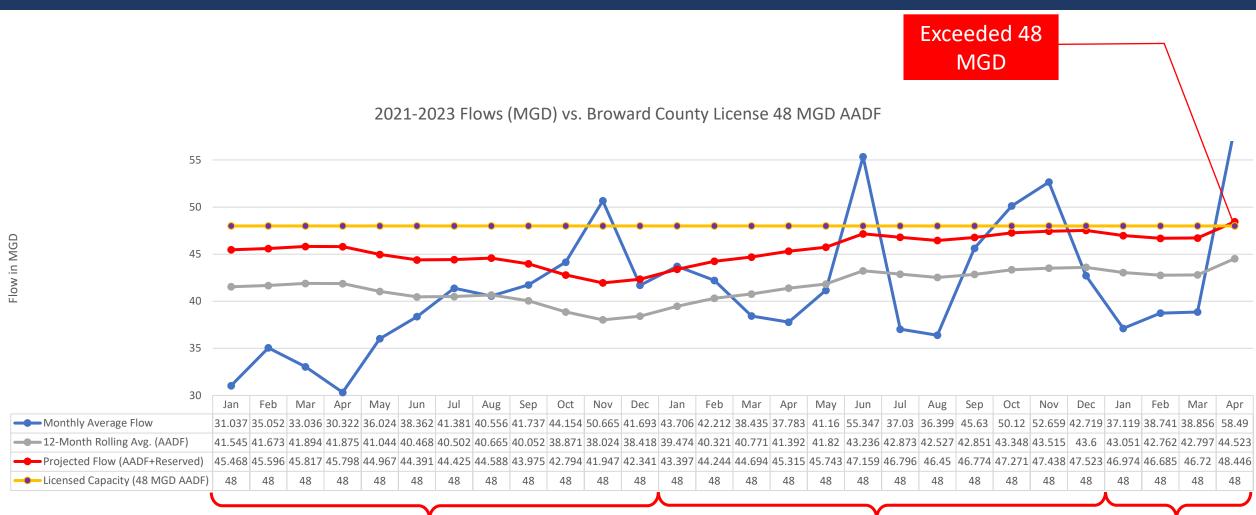
CAM 23-0250

Page 9 of 15

Exhibit 1



Capacity Availability - Per County License

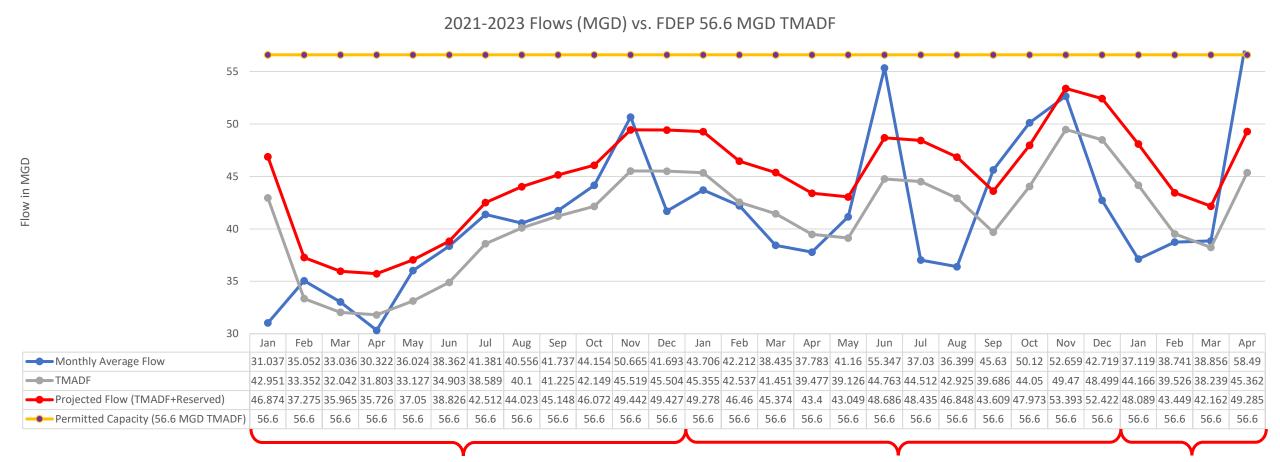


2022

CAM 23- 0250 Exhibit 1 Page 10 of 15



Capacity Availability - Per FDEP Permit



2022



Large User Agreements - Who We Serve

- City of Fort Lauderdale
- City of Wilton Manors
- City of Oakland Park
- Port Everglades
- Portions of Tamarac, Davie, and Unincorporated Broward County

Large User Wastewater Flows

		Oakland Park	Tamarac	Davie	Wilton Manors
Agreement Limits	Monthly AADF* Allocation FY 22-23 (MGD)	2.93	0.226	0.1	1.98
	Max Monthly Allocation FY 22-23 (MGD)	3.93	0.26	0.22	2.46
April Data	April AADF* (MGD)	<mark>5.259</mark>	0.213	0.067	1.97
	April Month Flow (MGD)	<mark>6.83</mark>	<mark>0.276</mark>	0.106	<mark>2.779</mark>

^{*}Per Large User Agreements, this is a 3-year running average.

[•] We are receiving approximately 2.3 MGD over the expected amount from Oakland Park

Continue Addressing I&I Reduction With Increased Funding

- Previous 5-Year CIP = ~\$25M
- Planned/Upcoming 5-year CIP = ~\$120M

Increased Frequency of Deep Injection Well Cleaning to Maintain Maximum Capacity

- Previous Schedule = Cleaning Every 5 Years
- New Schedule = Cleaning Every 2.5 Years

Develop and Implement CIP Projects to Increase Plant Capacity

Potentially Enables City to Increase FDEP Permitted Capacity

The City Will Work With Large Users to Identify and Address Their Sources of Excess Flow



All Capacity Analyses Will Be Based on FDEP Permit Conditions

• We Currently Have Approximately 7.315 MGD in Available Capacity

Continue Addressing I&I, Modify Processes at GTL, and Clean Deep Injection Wells

Maintaining and Increasing Maximum Capacity

Enforce Overflow Surcharge Clause in Large User Agreements

Work With Large Users to Encourage Them to Properly Address Their Sources of Excess Flow