



MUNICIPAL AUTHORITY
TOWNSHIP OF SOUTH FAYETTE

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April 11, 2022

Mr. Thomas Taylor
Hampton Technical Associates
35 Wilson Street, Suite 201
Pittsburgh, PA 15223

Subject: Apex Apartments

Dear Mr. Taylor:

We are in receipt of your Planning Module Component 3 for the above referenced planned property development in the vicinity of Oakridge Road. This proposed apartment complex is at the same location as a previously planned apartment complex referred to as Newbury Village. While that project was never constructed, PaDEP Planning Modules were approved on August 15, 2012. At that time, 250 apartments were presumed to be constructed with wastewater generation anticipated to be 56,650 gallons/day. The latest proposal for Apex Apartments is 416 units (233 one bedroom and 183 two bedroom units per the project narrative) with a total wastewater generation proposed to be 89,850 gallons/day. As such, a net additional 33,200 gallons/day is requested for planning approval at this time. Since the originally approved apartment complex was not constructed, MATSF will use the full build-out anticipated wastewater generation of 89,850 gallons/day in our flow projection values presented on page 6 of the Component 3 Planning Module. It is our understanding that construction is anticipated to begin later this year with the time required for full build-out unspecified at this point in time. A portion of the complex is built on each side of Oakridge Road thus routing wastewater initially to 2 locations with the north side sending flow to MATSF's Oakridge Pump Station and the south side being routed to MATSF's Verner Street sewer. Since the Oakridge Pump Station is also tributary to the same Verner Street sewer, MATSF collection system capacity values are calculated for Verner Street. However, an analysis of the Oakridge Pump Station current flow and projected flow based upon full build-out indicates that more than adequate reserve capacity is available for that pump station. From the Verner Street area, wastewater will be conveyed to the nearby Millers Run trunk sewer and Chartiers Creek interceptor sewer to the MATSF's Chartiers Creek Pump Station. It is then pumped to ALCOSAN's Chartiers Creek Interceptor at POC C54-16. Ultimately, the flow will be treated at ALCOSAN's Woods Run regional treatment facility.

MATSF has sufficient capacity within its sanitary sewer collection system and at the Chartiers Creek Pump Station for all conditions except extremely unusual precipitation events. The pump station occasionally receives peak hourly flow during storm events greater than 1" that does not result in a sewer system overflow (SSO) event, but is in excess of the design capacity of the pump station (6.0 MGD). During these periods, the 3rd pump at the facility automatically comes on-line and allows for a peak discharge rate of up to 7.6 MGD. All instances of pump station design exceedance are detailed in MATSF's annual wasteload management (Chapter 94) reports. SSO events are reported to Allegheny County Health Department (ACHD).

Since wet weather capacity related events are infrequent and since the Authority takes steps to minimize the frequency and impact of the system back-ups as detailed below, the proposed flow from the Apex Apartment complex can be reasonably managed by MATSF.

MATSF executed ACHD Administrative Consent Orders (ACO) in January 2004, and subsequently, in December 2015, executed a Phase I Consent Order and Agreement (COA). The most recent Phase II COA with executed with ACHD on February 18, 2022. In doing so, the Authority has been granted a certain level of internal control with respect to adding customers to the system. Even so, new subdivisions and development projects still must go through the PaDEP Planning Module approval process. MATSF has historically aggressively complied with all terms called out in the 2004 ACO and the 2015 Phase I COA and has undertaken several initiatives necessary to preserve collection system capacity. Similarly, MATSF intends to continue affirmative action in this regard with respect to the 2022 COA. MATSF has been and will continue to be actively involved in regional efforts with ALCOSAN, ACHD and PaDEP as coordinated by 3 Rivers Wet Weather Inc.

Historically, MATSF maintains a database of on-going efforts for collection system operation and maintenance (O&M) and quantification of infiltration/inflow. Some of the most significant events that have had a beneficial impact on preserving system capacity and reducing the frequency of SSO's include:

- A mandatory time of sale inspection of private lateral sewers (that commenced in 2007) along with the purchase of Aries truck mounted sewer televising equipment in late 2009 allows for both main sewer inspection and lateral inspection via access from the sewer main. Since inception over 3, 500 laterals have been televised by MATSF personnel at time of property sale plus nearly 1,500 laterals for new construction prior to occupancy.
- In 2012, MATSF completed a project that provided an emergency siphon connection to the ALCOSAN system just upstream of the Chartiers Creek Pump Station. This was accomplished via a cross connection between the MATSF Chartiers Creek trunk sewer and the siphon pipe under Chartiers Creek that conveyed wastewater to ALCOSAN from the former Reichold industrial facility. That emergency siphon is able to convey up to 2 MGD between the MATSF sewer and the ALCOSAN system in the event of a major malfunction to the Chartiers Creek pump station or during severe storm events.
- Rehabilitation of the public portion of approximately 200 sanitary sewer service laterals between 2015 and 2021. The majority of those laterals were rehabilitated by use of cured in place liners that were inserted from the sewer main with a new full wrap wye connection. Some of the laterals were rehabilitated by use of acrylamide grout. The overall cost for that work exceeded \$700,000.
- In 2016, purchase and installation of 5 HACH flow meters placed at semi-permanent trunk sewer locations within the MATSF Chartiers Creek system. These meters are accessible via HACH's web interface that allows for essentially real time access. The meters also have alarm capabilities for surcharging and other selected parameters. 2 additional HACH meters were purchased in late 2019 and have been installed as semi-permanent meters. Finally, 2 more meters were purchased in 2022 primarily for short term metering or various portions of the system.
- To comply with the 2015 Consent Order, a flow reduction demonstration project was completed in the upper portion of the Millers Run Trunk Sewer in 2017. The project included manhole to manhole cured in place pipe lining for various sewer segments along with joint grouting of other sewer segments. The total construction cost was \$147,262.

- A source reduction study was submitted to PaDEP and ACHD on November 30, 2017. That study along with information in MATSF's annual wasteload management report provides significant additional details regarding efforts being undertaken to reduce infiltration/inflow and maximize system capacity.
- In March 2018, MATSF awarded a \$2.542 Million contract to Kukurin Contracting, Inc. for enhancements to the Millers Run Trunk Sewer involving replacing or paralleling 8,750 feet of the existing trunk sewer that was originally constructed in 1973. That project was completed in November 2018 and it provides for additional conveyance capacity for portions of the Millers Run watershed of South Fayette Township.
- In 2019, 4 sewer segments with identified infiltration were relined (totaling 748' of 8" VCP) on the Portman Run sewer in the vicinity of the Lakemont Farms plan. The total costs of the relining by Insight Pipe Company was \$25,557.
- In 2020, additional sewer lining work was performed in other portion of Portman Run sewershed to address both identified infiltration and limited root issues. Insight Pipe Company lined 9,268 feet of sewer main at a cost of \$261,665 and Robinson Pipe Company performed lining or grouting of the public portion of laterals on the segments lined by Insight at a cost of \$135,237.
- In 2021, BLD Services lined the public portion of 13 laterals at a cost of \$61,285.
- For 2022, MATSF has budgeted over \$400,000 for various pipe rehabilitation work, the majority of which is anticipated to be performed in the Hunting Ridge area of the township.

As previously mentioned, MATSF maintains a comprehensive flow monitoring program and provides significant detail with respect to infiltration/inflow tracking within the annual Chapter 94 Wasteload Management Report. All MATSF flow data is also provided to ALCOSAN on an annual basis.

As part of the Planning Module approval process, a resolution revising the Township's official sewage plan must be executed by South Fayette Township. You must also submit a copy of the Planning Module Components along with this letter to ALCOSAN in order to obtain a letter for their conveyance and treatment capacity. Comments are also required from ACHD. The completed package must be submitted to PaDEP for final approval. This procedure is not considered complete until PaDEP has provided written approval. Also, PaDEP and MATSF do not consider taps guaranteed until the appropriate connection charge is paid to MATSF.

Please don't hesitate to contact me should you have any questions on this information.

**THE MUNICIPAL AUTHORITY OF
THE TOWNSHIP OF SOUTH FAYETTE**



**Jerry D. Brown
Managing Director**

CC: South Fayette Township

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 33,200 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

- a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
- b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.
- c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

To complete the table, refer to the instructions, Section J.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	564,000	1,410,000	210,500	940,000	299,500	1,288,000
Conveyance (c1)	2,400,000	6,000,000	1,773,700	7,600,000	2,098,150	7,600,000
Conveyance (c2)						
Treatment						

VERNER ST. CHARTERS P.S.

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

YES NO SEE ATTACHED MAIL CORRESPONDENCE DATED 4-11-2022

- a. This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

- b. Collection System

Name of Agency, Authority, Municipality Municipal Authority South Fayette Township

Name of Responsible Agent JERRY D. BROWN, MAINTENANCE DIRECTOR

Agent Signature [Signature] Date 4-11-2022

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

C1. Conveyance System

Name of Agency, Authority, Municipality Municipal Authority Township of South Fayette

Name of Responsible Agent JERRY D. BROWN, MANAGING DIRECTOR

Agent Signature [Signature]

Date 4-11-2022

C2. Conveyance System

Name of Agency, Authority, Municipality Allegheny County Sanitary Authority (ALCOSAN)

Name of Responsible Agent _____

Agent Signature _____

Date _____

4. Treatment Facility

The questions below are to be answered by a representative of the facility permittee in coordination with the information in the table and the latest Chapter 94 report. The individual signing below must be legally authorized to make representation for the organization.

YES NO

- a. This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved CAP granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the planning module.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not impact that status.

- b. Name of Agency, Authority, Municipality Allegheny County Sanitary Authority (ALCOSAN)

Name of Responsible Agent _____

Agent Signature _____

Date _____

K. TREATMENT AND DISPOSAL OPTIONS (See Section K of instructions)

This section is for land development projects that propose construction of wastewater treatment facilities. Please note that, since these projects require permits issued by DEP, these projects may **NOT** receive final planning approval from a delegated local agency. Delegated local agencies must send these projects to DEP for final planning approval.