

**APPLICATION FOR PUBLIC UTILITIES
FROM CITY OF HARRISONBURG, VIRGINIA
TO FACILITIES LOCATED IN ROCKINGHAM COUNTY**

I. GENERAL INFORMATION	(By Applicant)
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Name of Applicant: Shenandoah Valley Organic, LLC

Address of Applicant: 779 Massanutten St., Harrisonburg, VA 22802

Telephone of Applicant: (540) 908-2029

Service Location ID: 44-C-2 (City); 94-(A)-L132 TM _____ LOT _____ Parcel

Service Location Address: 350 Acorn Drive, Harrisonburg, VA 22802

Type of Utility Requested: Water Sewer

Type of Utility Use: Residential Commercial Industrial Institutional
 Agriculture Other: _____

Rockingham County Approval: Attachment _____

II. UTILITY INFORMATION	(By Applicant)
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A. Average Daily Usage:
 _____ Equivalent Residential Connections * 260 *gpd* / E.R.C. = _____ *gpd*
 Other Calculations: See attached calculations for average daily usage

 Specific Data (describe): _____

B. Peak Daily Usage
 AWWA Fixture Units is Equivalent to 35.4 *gpm*
 Average Daily Demand * Peak Factor of 4.27 = 151.16 *gpm*
 Specific Data (describe): Fixture units – see Water Sizing 4-27A; peak factor –
p=8035gpd/100gpd/1000 and PF = 4.27 using the non-residential formula in the DCSM.

C. Fire Flow Demand
 Requirement 1500 *gpm*
 Describe needs assessment: See fire flow calculations from ISO Fire Flow Worksheet.

III. UTILITY ASSESSMENT COMMENTS

(By Director)

A. System Zone for Water

Zone ID: 1ST LOW

Zone Transfer & Storage Issues for Daily Demand: NONE

Site Specific Delivery and Pressure Issues for

Peak Demand: NONE

Fire Flow Demand: ACTIVE CITY PROJECT WILL SUPPLEMENT

EXISTING DELIVERY TO MEET HIGHER DEMANDS OF ADJACENT

Other Issues: SITE.

B. System for Sanitary Sewer

Collection System Comments: NONE

Interceptor System Comments: TRANSMITS TO BLACKS RUN INTERCEPTOR.

SMALL DEMAND POSES NO CONCERN.

Treatment System Comments: NONE

Note: Comments may include the need for engineering evaluations that shall be completed prior to final evaluation of this application.

IV. RECOMMENDATION

Recommendation for Approval

Recommendation for Approval Subject to the Applicant Completing the following:

Forward to Planning Commission

Forward to City Council

shall be direct City customer
minimal effects to town utility operation; auxiliary building to City business

Signature of Applicant

Mike Cole

Signature of Director of Public Utilities

Date

March 1, 2021

Date

**Request for Review of Availability for Water and/or Sewer
To Land Located in Rockingham County**

City of Harrisonburg Code of Ordinances Section 7-2-4 requires that Rockingham County (the County) acknowledge that an Applicant (as defined in such ordinance) has requested public utility service from the City of Harrisonburg (the City) for property located in the County. By signatures of the Applicant, and authorized representatives of the City and the County, the City will begin to evaluate the City's ability to provide the requested services.

APPLICANT

The signature of the Applicant is an official request to obtain City utility services and acknowledgement that Applicant has reviewed the conditions of City Code of Ordinance Section 7-2-4 (see Page 2), including the requirement to submit certain documents incidental to this application.

Services Requested:

WATER (Please Initial) RS

SEWER (Please Initial) RS

Signature

Date

CITY OF HARRISONBURG

The signature of the City's Director of Public Utilities acknowledges the Applicant's request for utility services from the City. The signature does not constitute approval of services, but the City's intent to review the request and evaluate the City's ability to provide the requested services. The City will provide to the County a statement regarding the availability of requested services and the City's intent to provide such services subject to approval by the County.

Dawn A. G...
Director of Public Utilities

3.10.2021
Date

COUNTY OF ROCKINGHAM

The signatures of the County Officials below acknowledge the Applicant's intent to use utility services of the City instead of the County. These signatures shall not imply approval by the County of the provision of said services by the City. Final approval is contingent upon the Board of Supervisors' consent pursuant to Virginia Code, Section 15.2-2143. This acknowledgement in no way implies or constitutes approval of any rezoning, special use permit or any other land use related request that requires Board or administrative approval.

Ramonda Cooper
Director of Community Development

2.24.21
Date

[Signature]
Director of Public Works

2-24-2021
Date

Comments: _____

APPLICATION FOR PUBLIC UTILITIES FROM CITY OF HARRISONBURG, VA
TO FACILITIES LOCATED IN ROCKINGHAM COUNTY
AUTHORIZATION OF REVIEW

City Code of Ordinance Section 7-2-4(e) states, "The Director may charge a reasonable fee to cover time and expenses of processing the application". The following policy shall be used to distribute the expenses incurred by the Department of Public Utilities.

1. **Initial Review:** There shall be no charge to execute the "Application and Acknowledgement" form used to initiate the review process by City and County officials. There shall be no charge to provide the first response to the "Application for Public Utilities From City of Harrisonburg, Virginia to Facilities Located in Rockingham County: Code of Ordinance 7-2-4". It should be recognized that the first response may be a letter of recommendation for approval or disapproval, or, it may provide stipulations for additional information or engineering evaluation.

2. **Continued Review:** Under circumstances progressing beyond the initial review, the Department shall invoice the applicant for specific cost as incurred. Upon request, the Department may provide a non-binding estimate for the applicant to consider. The costs shall include, but are not limited to: processing, consulting and support as applied directly to the management of the application.

"Processing costs" - shall only include the time of the "application officer" to handle, coordinate, evaluate, review and manage the process until the application has been closed; unit billing rate shall be \$28.55/hour.

"Consulting costs" - shall refer to contracted, or in-house, hydraulic modeling performed to evaluate the water or sewer system impact. Contracted cost shall be forwarded at invoice costs. In house engineering rate shall be at \$34.55/hour.

"Support costs" - shall refer to the collection of information by field technicians billed at the rate accepted to # person crew used.

I hereby acknowledge that I may be charged according to the above policy.

Name

Date

P.O. Box; Street #

City, State, Zip

**ORDINANCE AMENDING AND RE-ENACTING SECTION 7-2-4
OF THE CODE OF ORDINANCES
CITY OF HARRISONBURG, VIRGINIA**

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF HARRISONBURG, VIRGINIA:

That Section 7-2-4 be repealed and replaced by the following provisions:

(a) The owner or his agent (the Applicant of a parcel of land located outside the corporate limits or the City of Harrisonburg may apply to the Director of Public Utilities of Harrisonburg (the Director) for permission to connect to the City's potable water or sanitary sewer systems. Prior to applying for approval from the City, the Applicant shall obtain acknowledgement from the County of Rockingham of his request for City utility services. Such acknowledgement may take whatever form is acceptable to both the County and the Director, and need not commit the County to final approval. Such acknowledgement by the County shall be submitted with the application to the City. For new water connections, the application shall include (i) the estimated average daily demand, (ii) peak instantaneous demand, and (iii) fire flow demands.

(b) Where the intended use of the Applicant's land is residential involving fewer than ten units, the Director shall either approve or reject the application. Where there is any other intended use the Director shall forward the application to the Planning Commission for its recommendation. After consideration by the Commission, the application shall be forwarded to City Council, with the recommendations of both the Commission and Director for final approval or rejection.

(c) Prior to acting on the application, the Director may require that the Applicant submit appropriate engineering reports or studies that demonstrate the anticipated impact on the City's water or sanitary sewer system along with any recommendations for changes or additions to the City's infrastructure indicated because of the proposed new connections. All engineering studies and reports shall be paid for by the Applicant.

(d) All infrastructure, whether it be an extension to a main, or a new service line or lateral, shall be installed in accordance with the City's Design and Construction Standards Manual at the Applicant's expense. Once installed by the Applicant and accepted by the Director, water lines up to the meter and sanitary sewer lines up to the laterals shall be the property of the City. The Applicant shall provide all reasonably required easements, at the Applicant's expense.

(e) The Director may charge a reasonable fee to cover time and expenses of processing the application.

(f) The "main" is a water or sanitary sewer line that serves more than one customer. A "service line" is a water line proceeding from a main that serves one customer. A "lateral" is a sanitary sewer line proceeding from a main that serves one customer.

Calculations associated with gallons per day

Misters:

5.9 GPH for each mister (based on product specifications)

X 13.2 misters per truck (132 total misters for 10 bays and 1 truck per bay)

X 99 bay-hours per day (22 trucks each day and 4.5 hours for each truck)

X 1 truck per bay

7710 GPD

Employees:

25 GPD/employee X 1 employee

+ 10 GPD/driver X 15 drivers/shift X 2 shifts per day)

325 GPD

Total: 8035 GPD



CITY OF HARRISONBURG
PUBLIC
UTILITIES

2155 BEERY ROAD, HARRISONBURG, VA 22801

OFFICE (540) 434-9959 • FAX (540) 434-9769

SVO Live Haul

Water & Sanitary Sewer Evaluation:

March 1, 2021

Executive Summary

Shennandoah Valley Organic, LLC (SVO) has requested connection to the City's water and sewer public systems to serve a Live Haul facility as an ancillary structure to the already approved Phase 1 facility at 350 Acorn Drive. The proposed connection would serve a small restroom / bath house and ten (10) mist spray bays for live haul trucks.

Whereas Rockingham County has authorized the City of Harrisonburg to consider providing water and sewer to the SVO Live Haul Facility, Harrisonburg Public Utilities recommends moving forward with approval.

Technical Review:

Criteria #1: Raw Water supply & treatment capacity analysis

In reference to the FY2019 Raw Water Supply Management Plan, Harrisonburg capacities are as follows

- Water Treatment: 15.0 MGD

HPU suggests that WTP capacity can accommodate the proposed connection as part of the 1.1 MGD that is available for external city sales.

- Reliable Water Supply: 10.4 MGD

Although undesirable, an additional drought raw water source of 4.6 MGD will be needed around 2050 to fully utilize WTP capacity. HPU recognizes the proposed connection to be an acceptable subset of this requirement.

Criteria #2: Distribution System Water supply

- Service to the project site:

The City's latest computerized hydraulic model calculates a available delivery of 1,122 gallons per minute is available in North Liberty Street near the point of connection. A city project is currently underway to increase delivery of the distribution system to meet the higher fire flow demands of the Phase 1 of the SVO project. These improvements are anticipated to be in place by June 1 of this year, ahead of the planned opening. At that time, the distribution system will be capable to meet the domestic and fire flow demands of the proposed project.

- Impact to City Customer Services:

The proposed connection is of an insignificant size to have impact to the surrounding distribution system.

HPU recommends approval per water distribution criteria.

Criteria #3: Impact upon Waste-Water Treatment Capacity

The following is recaptured from the City's Sanitary Sewer Management Plan (SSMP) FY2019.

The results shown in Figure 5 indicate that available capacity of 12.8 MGD will not always support the future City treatment requirements. Considering the effect of I&I upon forecasted future internal City sales, treatment requirements would exceed treatment capacity in 5 of the 10 annual periods. Prior to FY2019, Harrisonburg has not exceeded hydraulic capacity, however; it is undesirably leveraging available unused hydraulic capacity to accommodate I&I.

Therefore, I&I reduction is an SSMP goal that must keep pace with sales growth such to release currently leveraged capacity.

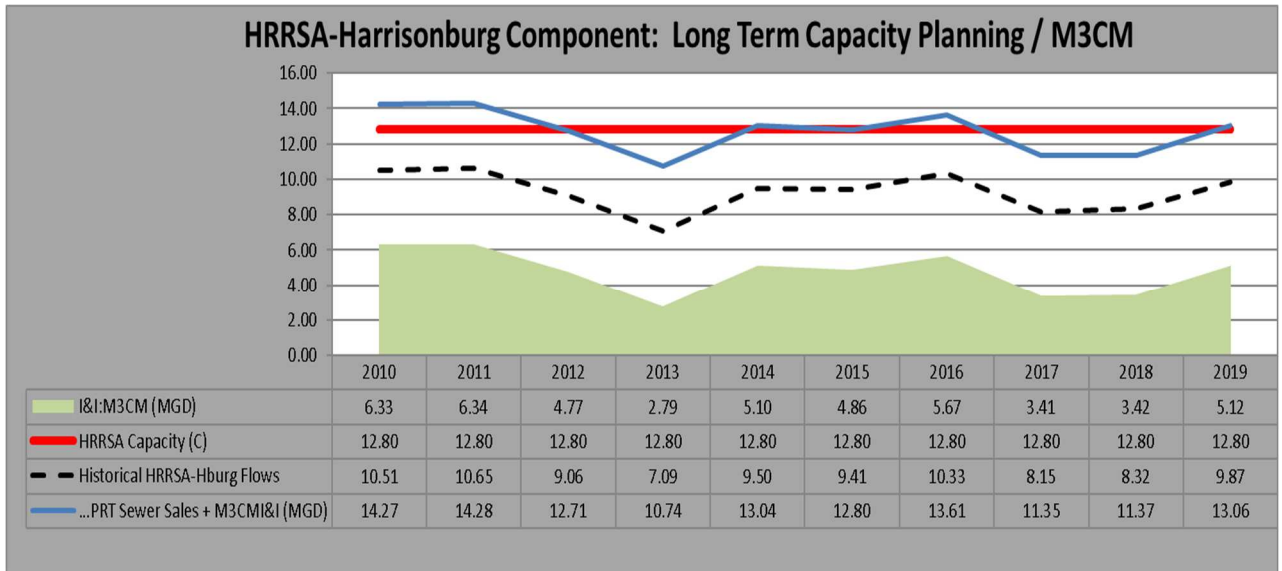


Figure 5

Whereas the demands shown below do not include services that are external to the City boundaries, adding the project as a direct City customer will incur the following:

- The City will not approach HRRSA capacity limits until total (City plus external) added demands increase approximately 2.0 MGD during the wettest periods.
- In the long term, the City will need to either remove I&I or to purchase additional capacity in equal volume to the demand created by adding the MILA development.

HPU recognizes the challenges of I&I abatement and HRRSA WWTP capacity to be an issue around 2050; adding the project will require equal abatement or added capacity to offset demand.

Criteria #4: Impact upon local sewer and interceptor

a) Impact upon HRRSA Lower Blacks Run Interceptor (LBRI):

The project demand of 8,035 gallons per day will be unnoticeable in the interceptor capacity.

HPU recommends approval based on the small demand of the project.

b) City local sewer collectors

The project demand of 8,035 gallons per day will be unnoticeable in the City's collection system capacity.

HPU recommends approval based on the small demand of the project