

City of Nicholasville

Sanitary Sewer System
Operational Status Report
October 2020

Background

- Nicholasville has a 4.1 MGD Wastewater Treatment plant.
- The WWTP has received Operational Excellence Awards for the past 5 years. Less than 1% of WWTTPs in KY and TN receive this award.
- It meets all discharge permit requirements (it puts out clean water!)

Operational Excellence awards won by the Nicholasville Wastewater Treatment Plant



Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2002 - December 31, 2002
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2003 - December 31, 2003
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2004 - December 31, 2004
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2005 - December 31, 2005
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2006 - December 31, 2006
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2007 - December 31, 2007
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2008 - December 31, 2008
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Clean Water Professionals of Kentucky Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2009 - December 31, 2009
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
CITY OF NICHOLASVILLE
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2010 - December 31, 2010
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period



Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2011 - December 31, 2011
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Clean Water Professionals of Kentucky Association
Operational Excellence Awards

2002	2017	
2003	2018	
2004	2019	
2005	2020	
2006	2021	
2007	2022	
2008	2023	
2009	2024	
2010	2025	

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2026 - December 31, 2026
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2027 - December 31, 2027
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

Kentucky-Water Environment Association
Operational Excellence Award
 is hereby given to
City of Nicholasville
 for
**Outstanding Operation of the
 Jessamine Creek Environmental Control Facility**
 during the period
 January 1, 2028 - December 31, 2028
 This award is conferred to recognize the dedication, skills, and outstanding
 effort of the employees of this facility in having no more than one violation
 of an NPDES Permit Limit for the 12 month Reporting Period

In January/February 2019 the plant went over its rated capacity.

– Rated at 4.1 MGD Average Daily Flow

– 2014 = 3.67 MGD - Rainfall = 45"

– 2015 = 3.99 MGD - Rainfall = 66"

– 2016 = 3.62 MGD - Rainfall = 53"

– 2017 = 3.68 MGD - Rainfall = 52.6"

– 2018 = 4.78 MGD - Rainfall = 73.3"

– 2019 = 4.26 MGD - Rainfall = 56.1"

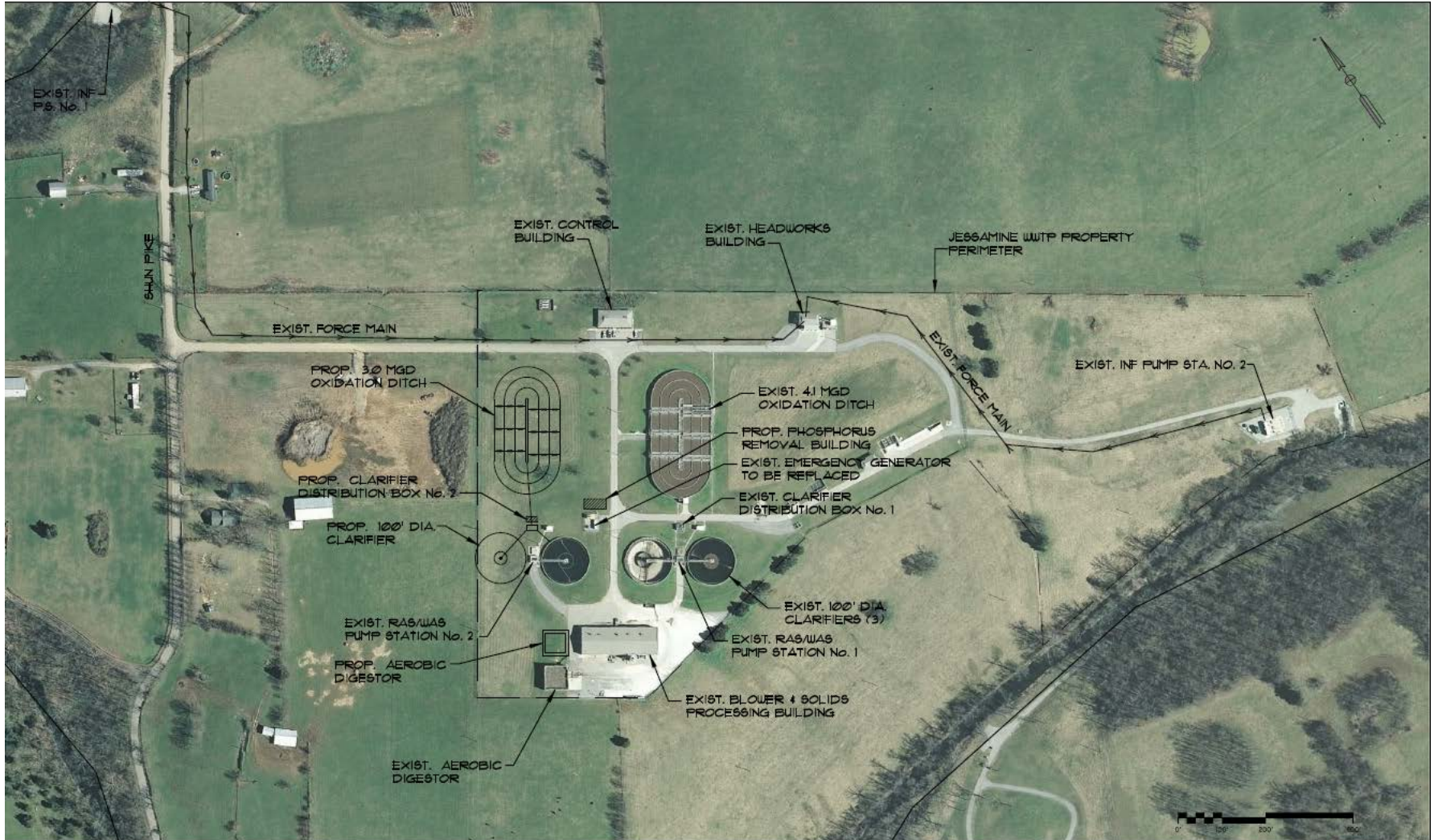
- Average Rainfall = 48" per year

Plant Expansion to 7.1 MGD

- Plant Schedule

- Design Complete December 2020
- Bid Open March 2021
- Begin Construction April 2021
- Complete Construct Dec 2022

Plant Expansion



PROJECT: 4275.01	DATE: JANUARY 2020
DESIGNED BY:	DATE:
DRAWN BY:	DATE:
CHECKED BY:	DATE:

CITY OF NICHOLASVILLE, KY FACILITY PLAN
JESSAMINE CREEK WWTW UPGRADE PROJECT EXHIBIT 1.1

Major System Improvements

Over 13 million dollars invested since 2008

- Norris Pump Station elimination – 2008
- Brown Street Sewer Plant decommissioning 2008
- Alta Ave Sewer Line Replacement 2009
- Richmond Avenue Pump Station reconstruction 2009

Major system improvements

(continued)

- Lone Oak High Level Overflow Project – 2011
- Mary Rose Pump Station elimination – 2014
- Brookview Sewer Project – 2015
- Heritage Pump Station reconditioning – 2016
- Orchard Bypass – Brittany Heights Pump Station
Elimination – 2019-2020

Remaining Issues

- The Lake St. area – Orchard Project (2020)
Relieved it and another project is under design
- Runnymede/Lone Oak – Made additional repairs and disconnected illicit sump pump connections in 2020, ongoing
- Brookview – Project planned for 2021
- Edgewood Drive/Rebel Rd. – scheduled for design

Help Maintain Our System:

- Never connect storm drain pipes, gutters, or sump pumps into a municipal sanitary line.
- Replace broken sanitary sewer pipes on your property.
- Discard fats, oil or grease in trash, never down drains.
- Avoid flushing household products such as baby wipes, facial wipes and other paper materials that may cause blockages.
- Ensure the home cleanout pipe is capped.
- Report sanitary sewer issues promptly.

Contact Information

- **Nicholasville Utilities *Customer Service:***
601 North Main Street
859.885.9473
- ***24-Hour Emergency Line:***
859.885.7305
(weekdays after 4 p.m. and weekends)