

INSPECTION REPORT

Inspection Date:	October 18, 2023	Inspection Announced: No
Time:	Entry: 9:00 a.m. EST	Exit: 11:35 a.m. EST
Media:	Water	
Statute (s)/Program(s):	Clean Water Act, National Pollutant Discharge Elimination System (NPDES), Industrial	
Type of inspection:	CEI - Compliance Evaluation Inspection	
Access:	Granted	
Permittee Name:	Village of Christiansburg WWTP	
Facility or Site Name:	Village of Christiansburg WWTP	
Facility/Site Physical Address:	5526 North Addison New Carlisle Road	
(city, state, zip code)	Casstown, Ohio 45312	
County/Parish:	Champaign	
Permit Number:	OH0141364	

Persons Participating in Inspection:					
Title	Name	Phone	Email	Present at Opening Conference	Present at Closing Conference
Physical Scientist, EPA	Matthew Schulte	(312) 886-2405	schulte.matthew@epa.gov	Yes	Yes
Environmental Engineer	Joseph Forth	(312) 886-7275	forth.joseph@epa.gov	Yes	Yes
Mayor	Del Davis		villageofchristiansburg@yahoo.com	Yes	No
Operator	Cameron Britenstine		britenenv@gmail.com	Yes	Yes
Inspector, Ohio EPA	Jacob Taylor		jacob.taylor@epa.gov	Yes	Yes
Lead Inspector:					
Matthew Schulte		Schulte, Matthew Digitally signed by Schulte, Matthew Date: 2023.12.21 14:53:34 -06'00'			
		Region 5	schulte.matthew@epa.gov	(312) 886-2405	
Additional Persons Participating in Inspection:					
Joseph Forth		Region 5		(312) 886-7275	
Supervisor Review:					
Molly Smith		MOLLY SMITH Digitally signed by MOLLY SMITH Date: 2023.12.21 15:09:05 -06'00'			
		Region 5	smith.molly@epa.gov	(312) 353-8773	

SECTION I – INTRODUCTION

Site Entry and Inspection Objectives

Region 5 Lead Inspector, Matthew Schulte, and inspector Joseph Forth arrived at the Village of Christiansburg Wastewater Treatment Plant (WWTP) (the “Site” or “Facility”), located at 5526 North Addison New Carlisle Road, Casstown, Ohio, at 9:00 a.m. on October 18, 2023 for an unannounced inspection. Inspectors presented their credentials to Del Davis and Cameron Britenstine and informed the Facility that this was an EPA Region 5 inspection to investigate elements of the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) permit program. The inspection was conducted under the authority of the CWA

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NPDES permit program and Section 308 of the CWA. The table above identifies the attendees that participated in the inspection.

This report is based on information supplied by Facility representatives, observations made by the Region 5 inspectors, and records and reports maintained by the permittee and Region 5. These include the following: direct observations made by the Region 5 inspectors, photographs taken by Region 5 inspectors, physical evidence collected by Region 5 inspectors, measurements taken by Region 5 inspectors, verbal or written statements made or supplied by Facility representatives (the permittee) during or subsequent to the on-site inspection, and materials, processes, data, photographs, or documents shown, demonstrated, or submitted to the Region 5 inspectors by Facility representatives during or subsequent to the on-site inspection. In addition, information gathered prior to or subsequent to the inspection from a review of U.S. EPA, State, and public records may be included in this report.

Facility/Site Description

Region 5 Lead Inspector confirmed the following Facility information:

The Facility is a WWTP for the Village of Christiansburg. This WWTP has been in operation for approximately twelve years and services a population of 500 people and one restaurant. Treatment of wastewater at the plant consists of twelve Max Tanks that are equipped with filter media. Wastewater is pumped through eight of the twelve tanks, through a central pipe that sprays water over the filter media. Water is collected at the bottom of every tank where it is then pumped through the next stage, stage 2, which consists of the remaining four tanks. After stage 2, wastewater will undergo ultraviolet treatment before being discharged.

The plant has one operator who is onsite three times per week. There is one outfall for the WWTP, which is located south of the plant and discharges directly to the West Fork Honey Creek. The creek does experience intermittent flows throughout the year and was flowing at the time of the inspection (see photos 14 and 15).

SECTION II – OBSERVATIONS

Observations may not be in sequential order.

Unique Identifying No.	Observation	Area of Concern?
MS-OB-001	The Village of Christiansburg WWTP has experienced chronic exceedances of ammonia effluent limitations in the facility's NPDES permit for the last twelve quarters.	Yes
MS-OB-002	The Facility has had difficulty maintaining biological life within its tanks for wastewater treatment due to cold weather. (Photos: 4 and 5)	Yes
MS-OB-003	Power washing of media filters within Max Tanks is performed on a quarterly basis. (Photos: 1 and 3)	No
MS-OB-004	Media filters are checked by operator on a weekly basis. (Photos: 1 and 3)	No

SECTION III – RECORDS REVIEW

Records reviewed may not be in sequential order.

No.	Record
MS-RR-001	Facility's NPDES Permit was recently renewed and became effective on October 1, 2023. Permit will expire on September 30, 2028.

SECTION V - AREAS OF CONCERN

The presentation of areas of concern does not constitute a formal compliance determination or violation.

No.	
MS-OB-001	The Village of Christiansburg WWTP has experienced chronic exceedances of ammonia. The Facility must meet the effluent limits contained within Part I, A of its NPDES Permit. For ammonia, this includes the concentration and loading limits, which differ in summer and winter months.
MS-OB-002	The Facility has had difficulty maintaining biological life within its tanks for wastewater treatment due to cold weather. (Photos: 4 and 5) The Facility has implemented several projects and measures in an attempt to regulate temperature within their tanks to sustain the biological life necessary for wastewater treatment. However, the Facility continues to have trouble meeting its ammonia and BOD limits. The Facility must meet the effluent limits contained within Part I, A of its NPDES Permit.

SECTION VI – CLOSING CONFERENCE AND FOLLOW UP**Closing Conference**

The Lead Inspector held a closing conference with Facility personnel on October 18, 2023, for the inspection. During the closing conference, the Lead Inspector discussed the observations and Areas of Concern identified during the inspection. Observations and Areas of Concern have not yet been evaluated for a formal compliance determination.

SECTION VII – LIST OF APPENDICES

Appendix 1 – Photo Log [times listed on images are in EST].

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 1	Time: 10:48 a.m.		
Direction Photo Taken: Southwest			
Photo Description: Max Tank 3. Middle pipe transfers wastewater to be sprayed by smaller outer pipes over the filter media.			
		File: Christiansburg_01.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 2	Time: 10:53 a.m.		
Direction Photo Taken: Down			
Photo Description: Sampling pit for internal monitoring prior to treatment.			
		File: Christiansburg_02.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 3	Time: 10:54 a.m.		
Direction Photo Taken: Southwest			
Photo Description: Max Tank 3 with sprayers on.			
		File: Christiansburg_03.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 4	Time: 11:02 a.m.		
Direction Photo Taken: North			
Photo Description: Air intake pipe for Max Tanks.			
		File: Christiansburg_04.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 5	Time: 11:02 a.m.		
Direction Photo Taken: Northwest			
Photo Description: Air pipes expelling air from tanks for air circulation.			
		File: Christiansburg_05.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 6	Time: 11:08 a.m.		
Direction Photo Taken: East			
Photo Description: Benson System UV treatment.			
		File: Christiansburg_06.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 7	Time: 11:10 a.m.		
Direction Photo Taken: North			
Photo Description: Overview of facility and its 12 Max Tanks.			
		File: Christiansburg_07.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 8	Time: 11:13 a.m.		
Direction Photo Taken: Southwest			
Photo Description: Composite sampler after UV treatment.			
		File: Christiansburg_08.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 9	Time: 11:18 a.m.		
Direction Photo Taken:			
Photo Description: Air intake from building to Max Tanks.			
		File: Christiansburg_09.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 10	Time: 11:19 a.m.		
Direction Photo Taken:			
Photo Description: Sampling fridges for internal monitoring of raw sewage.			
		File: Christiansburg_10.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 11	Time: 11:19 a.m.		
Direction Photo Taken:			
Photo Description: Flow meter.			
		File: Christiansburg_11.JPG	

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Date Photograph Was Taken: 10/18/2023			
Photo No.: 12	Time: 11:24 a.m.		
Direction Photo Taken:			
Photo Description: Lime addition no longer in use. Stopped operating 2 years prior.			
		File: Christiansburg_12.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 13	Time: 11:28 a.m.		
Direction Photo Taken: West			
Photo Description: Sign for Outfall 001 to West Fork Honey Creek located south of Facility.			
		File: Christiansburg_13.JPG	

Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 14	Time: 11:28 a.m.		
Direction Photo Taken: West			
Photo Description: Outfall 001 to West Fork Honey Creek located south of Facility.			
		File: Christiansburg_14.JPG	

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Facility Name & Location: Christiansburg WWTP 5526 North Addison New Carlisle Road Casstown, Ohio 45312		Photographer: Matthew Schulte	Camera: Olympus Tough TG-6 (S/N #BJ5B21169)
Date Photograph Was Taken: 10/18/2023			
Photo No.: 15	Time: 11:29 a.m.		
Direction Photo Taken: West			
Photo Description: Outfall 001 to West Fork Honey Creek located south of Facility.			
		File: Christiansburg_15.JPG	