INSPECTION REPORT

Inspection Date(s):	05/10/2022 - 05/10/2022	Announced: No
Time:	Entry: 01:35 PM (ET)	Exit: 03:35 PM (ET)
Media:	Water	
Statute(s)/Program(s):	Clean Water Act, NPDES, WWTP	
Type of inspection:	CEI - Compliance Evaluation Inspection	
Access:	Granted	
Permittee Name:	Scioto County Commissioners (Wheelersburg WWTP)	
Facility or Site Name:	Wheelersburg WWTP SD NO 2	
Facility/Site Physical Address:	2974 Hayport Road	
(City, state, zip code)	Wheelersburg, OH 45694	
County/Parish:	Scioto County	
Facility GPS Coordinates:	38.72017, -82.86147	
Mailing address: (If different)		
(City, state, zip code)		
Facility/Site Identifier:	Wheelersburg WWTP	
Permit Number:	OH0050016	
SIC or NAICS:	4952	

Persons Participating in Inspection:

Title	Name	Phone	Email	Present at Opening Conf.	Present at Closing Conf.
Lead Inspector	Andi Hodaj	3123534645	hodaj.andi@epa.gov	Yes	Yes
Inspector	Ray Cullen	(312) 886-0538	cullen.raymond@epa.gov	Yes	Yes
Maintenance staff	Greg Schackart			Yes	Yes
County Sanitary Engineer	JP Pickelsimer	(740) 352-1326	jppickelsimer@sciotocountysanitary.us	No	Yes
Lab technician	Andrew Schackart			No	Yes

Lead Inspector:

Andi Hodaj	RAYMOND CULLEN Digitally signed by RAYMOND CULLEN Date: 2022.06.16 14:41:23 -05'00'		
	Region 5	hodaj.andi@epa.gov	(312) 353-4645

Supervisor Review:			
Molly Smith	MOLLY SMITH Digitally signed by MOLLY SMITH Date: 2022.06.16 14:48:10 -05'00'		
	Region 5	Smith.Molly@epa.gov	

SECTION I – INTRODUCTION

Site Entry and Inspection Objectives

U.S. Environmental Protection Agency, Region 5, inspectors arrived at the Wheelersburg Wastewater Treatment Plant (WWTP) (the "Site" or "Facility"), located at 2974 Hayport Road, at 01:35 PM (ET) on 05/10/2022 for an unannounced inspection. The table above identifies the attendees that participated in the inspection. The Region 5 inspectors presented their credentials to Greg Schackart and Andrew Schackart, the Facility's maintenance staff and lab technician, respectively. The Region 5 Lead Inspector informed them that this was a Region 5 inspection to determine compliance with the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) permit program. The inspection was conducted under the authority of Section 308 of the CWA.

This report is based on information supplied by Facility representatives, observations made by the Region 5 inspectors, and records and reports maintained by the Facility and Region 5 including: direct observations made, photographs taken, physical evidence collected, and measurements taken by the Region 5 inspectors; verbal or written statements provided by Facility representatives during or subsequent to the 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 inspection. In addition, information gathered prior to or subsequent to the inspection from a review of U.S. Environmental Protection Agency, state, and public records may be included in this report.

Facility/Site Description

The Region 5 Lead Inspector confirmed the following facility information:

The Facility is publicly owned by Scioto County. It has a design flow of 1.2 million gallons per day (MGD) and serves approximately 7,000 residents connected to a sanitary-only collection system. No industrial users discharge process waste to the WWTP, but the Pepsi facility discharges sanitary waste to the WWTP. The Facility consists of an inflow structure, a bar screen, a trash rake, a flow splitter box, an influent chamber, two oxidation ditches, another splitter box, three clarifiers, an ultraviolet (UV) disinfection channel, two aerobic digesters and a sludge belt press. The Facility discharges into Pine Creek via outfall 001.

According to Mr. Schackart, Scioto County operates 90 pump stations in the collection system area and a couple satellite wastewater treatment plants.

Facility/Site Information

Responsible official	Greg Schackart
WWTP Design Capacity & Average Daily Flow	Design flow is 1.2 MGD, Average flow is approximately 0.7 MGD

WWTP Approx. # of residents served	7,000
Contributing (or shared) Jurisdictions	Franklin Furnace
Outfalls: (and do the numbers, locations, and receiving waters match the permit?)	1, outfall 001 was under water at the time of the inspection.
Operation schedule (days of operation, # shifts/day, # operators/shift, coverage overnight, weekends & emergencies), and is staffing sufficient for proper operation?	8 AM - 4:30 PM Monday through Friday and 7 AM - 11 AM on weekends. 4 employees on site.
Do you use in-house or contract out for laboratory analyses? (including for metals or WET testing?)	Temperature, Dissolved Oxygen, pH, Total Suspended Solids (TSS), Ammonia – Nitrogen, Orthophosphate, Carbonaceous Biochemical Oxygen Demand (CBOD) and Escheria Coli are measured in-house and the rest of the parameters in the permit are analyzed by a contract lab (MASI Environmental Laboratories).
Do you accept waste from septage haulers? If so, what problems have you experienced?	No
Is there currently any portion of the treatment train that is non-operational?	Trash rake was not in operation at the time of inspection.

Unit(s)

Unit/Area/Sub-area	Description
Digesters	The digester unit includes two aerobic digesters, the sludge press and sludge storing areas.
Primary treatment	The primary treatment consists of the influent box, trash bars and an automatic trash rake.
Secondary treatment	The secondary treatment consists of the oxidation ditches, splitter box, three clarifiers, a UV tank, two aerobic digesters and a sludge belt press.

SECTION II – OBSERVATIONS

Observations may not be in sequential order.

Unit: Digesters	**Contains CBI:** No
Observation #: AH2-OB-003	**Date:** 05/10/2022

Solids from the clarifiers are pumped into the two aerobic digesters. The digesters had plants growing in them and at least one of them was almost fully covered with plants growing on top of it. EPA observed the belt press, not operating, in a covered shed just south of the digesters. According to Mr. Schackart, the belt press is operated as needed and belt press leachate is pumped back to the headworks. Next to the belt presser there was the dry sludge storage shed. EPA observed sludge overflowing from the covered shed and exposed to stormwater.

Photo(s)

1. RIMG2702.JPG
2. RIMG2703.JPG
3. RIMG2705.JPG
4. RIMG2707.JPG
5. RIMG2708.JPG
6. RIMG2709.JPG
7. RIMG2710.JPG
8. RIMG2711.JPG

Unit: Primary treatment **Contains CBI:** No

Observation #: AH2-OB-001 **Date:** 05/10/2022

EPA started the tour of the facility at the headworks. EPA observed three influent pipes, of which one was discharging. Mr. Schackart stated that the one discharging was influent from the city of Wheelersburg and the other two were influent from Franklin Furnace and return leachate from the digesters. The trash rake was not working at the time of the inspection. There was a trash screen and trash were hand-collected and placed on the side of the inflow channel.

Photo(s)

1. RIMG2684.JPG
2. RIMG2685.JPG

Unit: Secondary treatment **Contains CBI:** No

Observation #: AH2-OB-002 **Date:** 05/10/2022

From the inflow channel, flow was routed to the oxidation ditches, which were put in operation in 1970, according to Mr. Schackart. Wastewater in the oxidation ditches flowed in a loop and through four rotors that were spinning continuously to agitate and aerate the ditches.

At approximately 2:00PM, Mr. JP Pickelsimer, county sanitary engineer, joined EPA on the tour of the facility.

From the oxidation ditches, flow was routed to a splitter box and from there to three clarifiers. EPA observed a lot of trash and build-up in all three clarifiers. Wastewater from the clarifiers flowed into the Ultraviolet radiation (UV) channel. The UV system was just a few months old according to Mr. Pickelsimer. From the UV channel, flow was routed to outfall 001 that discharged into Pine Creek. EPA observed a V-notch weir at the outlet of the UV channel, and where effluent flow was measured according to Mr. Schackart, but could not see a depth sensor. Effluent samples were taken from a manhole just south of the UV channel, using an ISCO autosampler that was stored in a shed. Wastewater in the UV channel was dark grey with a lot of sediment and

trash in it. EPA could not observe outfall 001 at the time of the inspection due to flooding of the fields west of Hayport Road where the outfall was under water.

Photo(s)

1. RIMG2686.JPG
2. RIMG2687.JPG
3. RIMG2691.JPG
4. RIMG2692.JPG
5. RIMG2693.JPG
6. RIMG2694.JPG
7. RIMG2695.JPG
8. RIMG2697.JPG
9. RIMG2698.JPG
10. RIMG2696.JPG
11. RIMG2701.JPG
12. RIMG2699.JPG

SECTION III – RECORDS REVIEW

Records may not be in sequential order.

Record: Lab Bench Sheets (usually handwritten) **Area Of Concern (AOC):** No

Ref #: AH2-RR-005 **Reviewed By:** Andi Hodaj **Reviewed Date:** 05/10/2022

EPA reviewed handwritten BOD analysis results for the months of January, February and March 2022.

Photo(s)

1. RIMG2713.JPG

Record: Flow Meter Logs **AOC:** No

Ref #: AH2-RR-004 **Reviewed By:** Andi Hodaj **Reviewed Date:** 05/10/2022

EPA reviewed flow measurement from a circular chart recorder for the month of April 2022.

Photo(s)

1. RIMG2712.JPG

Record: DMR Reports **AOC:** Yes

Ref #: AH2-RR-003 **Reviewed By:** Andi Hodaj **Reviewed Date:** 05/10/2022

EPA reviewed DMR reports for the period January 2019 through April 2022 and found that the facility has exceeded its effluent limits 44 times during this period. Parameters for which limits were exceeded included ammonia, E. coli BOD5 and copper with ammonia being the most common.

Record: Laboratory Analysis Reports		**AOC:** No
Ref #: AH2-RR-002	**Reviewed By:** Andi Hodaj	**Reviewed Date:** 05/10/2022
EPA received and reviewed laboratory analysis reports from Masi Laboratories for influent and effluent samples from the facility for the months of January, February and March 2022.		
Record: Sludge Sampling Report		**AOC:** No
Ref #: AH2-RR-001	**Reviewed By:** Andi Hodaj	**Reviewed Date:** 05/10/2022
EPA received and reviewed Annual Sewage Sludge reports for years 2019, 2020 and 2021.		

SECTION IV – SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

No sampling was conducted.

SECTION V - AREAS OF CONCERN

Areas of Concern may not be in sequential order.

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

Unit:
AH2-RR-003
EPA reviewed DMR reports for the period January 2019 through April 2022 and found that the facility has exceeded its effluent limits 44 times during this period. Parameters for which limits were exceeded included ammonia, E. coli BOD5 and copper with ammonia being the most common.
Unit: Digesters
AH2-OB-003
The digesters had plants growing in them and at least one of them was almost fully covered with plants growing on top of it.
Next to the belt presser there was the dry sludge storage shed. EPA observed sludge overflowing from the covered shed and exposed to stormwater.
Unit: Secondary treatment
AH2-OB-002
EPA observed a V-notch weir at the outlet of the UV channel, and where effluent flow was measured according to Mr. Schackart, but could not see a depth sensor.
Wastewater in the UV channel was dark grey with a lot of sediment and trash in it.

EPA observed a lot of trash and build-up in all three clarifiers.

SECTION VI – CLOSING CONFERENCE AND FOLLOW UP

Closing Conference

The Region 5 Lead Inspector held a closing conference with Facility personnel at 03:35 PM (ET) on 05/10/2022 for the inspection. During the closing conference, Region 5 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.

Follow Up

No follow up was required after exiting the facility on 05/10/2022.

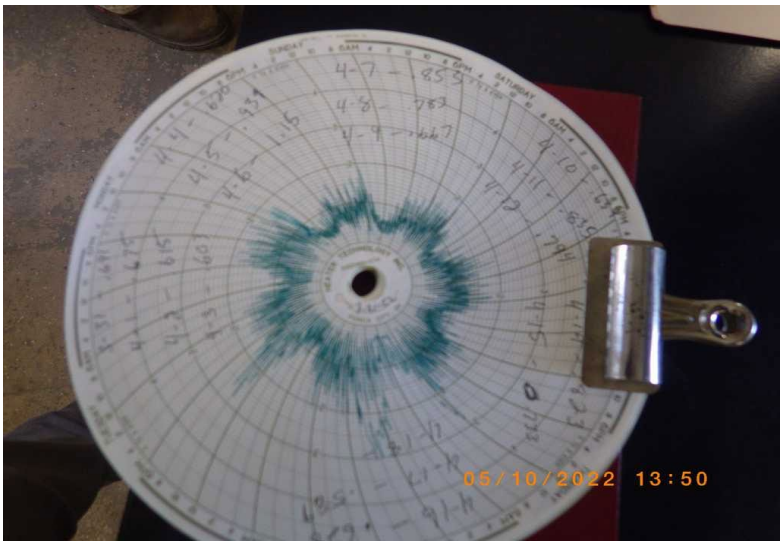
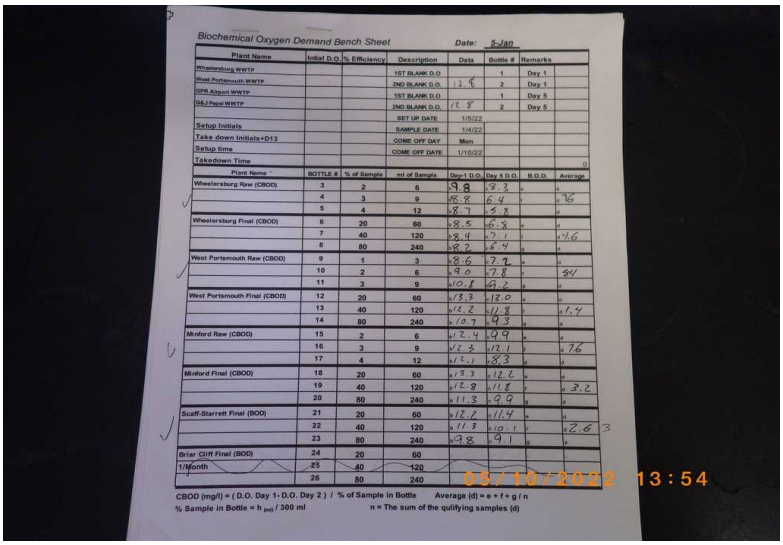
Communication Log

No additional information received by Region 5 after exiting the Facility on 05/10/2022.

SECTION VII – LIST OF APPENDICES

1. Photo Log

APPENDIX 1: PHOTOLOG
All photographs taken by Andi Hodaj, Environmental Engineer, U.S. EPA
Camera: RICOH WG-4
Time stamps in the photographs are in central time

Circular chart recorder RIMG2712.JPG 05/10/2022 14:50 (ET) Andi Hodaj *[Unit/Area]* No CBI No PII EPA observed the circular chart recorder for flow for the month of April 2022.	
BOD Bench Sheet RIMG2713.JPG 05/10/2022 14:54 (ET) Andi Hodaj *[Unit/Area]* No CBI No PII BOD analysis results for the month of January 2022.	
East digester RIMG2702.JPG 05/10/2022 14:30 (ET) Andi Hodaj Digesters No CBI No PII The east aerobic digester had plants growing on its surface. There was an aerator in operation at the digester at the time as the water was being agitated. Camera looking northeast.	

East digester RIMG2703.JPG 05/10/2022 14:31 (ET) Andi Hodaj Digesters No CBI No PII Half of the east aerobic digester was almost entirely covered with living plants. Camera looking northwest.	
West digester RIMG2705.JPG 05/10/2022 14:33 (ET) Andi Hodaj Digesters No CBI No PII Part of the west aerobic digester was also covered with living plants. Camera looking south.	
West digester RIMG2707.JPG 05/10/2022 14:37 (ET) Andi Hodaj Digesters No CBI No PII Trash floating at the top of the west digester. Camera looking southwest	

Sludge belt press RIMG2708.JPG 05/10/2022 14:36 (ET) Andi Hodaj Digesters No CBI No PII The sludge belt press was not in operation at the time of the inspection. Camera looking south.	
Sludge belt press RIMG2709.JPG 05/10/2022 14:36 (ET) Andi Hodaj Digesters No CBI No PII Conveyer belt of the belt press. Camera looking southeast.	
Dry sludge storage RIMG2710.JPG 05/10/2022 14:37 (ET) Andi Hodaj Digesters No CBI No PII Dry sludge from the belt press was stored in a covered shed next to the belt press. Sludge was spread outside of the shed area at the time of the inspection. Camera looking south.	

Dry sludge storage RIMG2711.JPG 05/10/2022 14:38 (ET) Andi Hodaj Digesters No CBI No PII Dry sludge from the belt press was stored in a covered shed next to the belt press. Sludge was spread outside of the shed area at the time of the inspection. Camera looking south.	
Influent pipes RIMG2684.JPG 05/10/2022 13:51 (ET) Andi Hodaj Primary treatment No CBI No PII The influent pipes at the headworks of the WWTP. Camera looking east.	
Influent channel RIMG2685.JPG 05/10/2022 13:54 (ET) Andi Hodaj Primary treatment No CBI No PII Influent channel and the bar screen at the headworks of the WWTP. Trash was manually collected and set on side of the channel. Camera looking south	

Oxidation ditches	
RIMG2686.JPG	
05/10/2022 13:57 (ET)	
Andi Hodaj	
Secondary treatment	
No CBI	
No PII	
Oxidation ditches with four rotors in operation. Camera looking south.	
Oxidation ditch	
RIMG2687.JPG	
05/10/2022 14:01 (ET)	
Andi Hodaj	
Secondary treatment	
No CBI	
No PII	
Rotors at work in the west oxidation ditch. Camera looking south.	
Clarifier splitter box	
RIMG2691.JPG	
05/10/2022 14:13 (ET)	
Andi Hodaj	
Secondary treatment	
No CBI	
No PII	
The splitter box that routes wastewater from the oxidation ditches to the three clarifiers. Camera looking northwest.	

Southeast clarifier RIMG2692.JPG 05/10/2022 14:15 (ET) Andi Hodaj Secondary treatment No CBI No PII The southeast clarifier had trash and build-up in it. Camera looking south.	
Southeast clarifier RIMG2693.JPG 05/10/2022 14:15 (ET) Andi Hodaj Secondary treatment No CBI No PII The southeast clarifier with a lot of trash in its perimeter. Camera looking southeast.	
Clarifier splitter box RIMG2694.JPG 05/10/2022 14:17 (ET) Andi Hodaj Secondary treatment No CBI No PII View of the inside of the splitter box for the clarifiers. Camera looking down.	

Northeast clarifier RIMG2695.JPG 05/10/2022 14:17 (ET) Andi Hodaj Secondary treatment No CBI No PII Similar to the southeast clarifier, the northeast clarifier had a lot of trash in it. Camera looking northeast.	
Southwest clarifier RIMG2697.JPG 05/10/2022 14:19 (ET) Andi Hodaj Secondary treatment No CBI No PII Trash chamber at the southwest clarifier. Camera looking southwest.	
UV and Discharge channel RIMG2698.JPG 05/10/2022 14:21 (ET) Andi Hodaj Secondary treatment No CBI No PII The UV and Discharge channel. Trash was visible in the UV tank. According to Mr. Pickelsimer, the channel is full due to outfall 001 being underwater which is often during spring. Camera looking west.	

Southwest clarifier RIMG2696.JPG 05/10/2022 14:18 (ET) Andi Hodaj Secondary treatment No CBI No PII Trash floating at the southwest clarifier. Camera looking southwest.	
Effluent autosampler RIMG2701.JPG 05/10/2022 14:27 (ET) Andi Hodaj Secondary treatment No CBI No PII The effluent autosampler was located in a shed next to the discharge channel. Camera looking north.	
Discharge channel RIMG2699.JPG 05/10/2022 14:21 (ET) Andi Hodaj Secondary treatment No CBI No PII View inside of the discharge channel. Photo shows the flow over the V-notch weir inside the discharge channel. EPA could not find a depth sensor in the channel. Camera looking down.