NPDES Compliance Sampling Inspection Report

The Village of Woodridge WWTP

36 Greenfield Road
Woodridge, New York 12789

NPDES Permit: NY 0272817

Inspection Dates: March 14-15, 2023

Report Prepared by:

THUAN TRAN Digitally signed by THUAN TRAN
Date: 2023.05.09 09:04:01 -04'00'

Thuan Tran, Physical Scientist

Report Approved by:

Cocuzza, Phil Digitally signed by Cocuzza, Phil
Date: 2023.05.09 09:31:47 -04'00'

Phil Cocuzza, Chief
Monitoring Operations Section

1.0 OBJECTIVE

On March 14 -15, 2023, the United States Environmental Protection Agency (USEPA) conducted a National Pollutant Discharge Elimination System (NPDES) Compliance Sampling Inspection (CSI) at the Village of Woodridge Wastewater Treatment Plant (WWTP). The objective of the NPDES CSI was to gather information necessary to determine if the facility is in compliance with the requirements and limitations of their NPDES Permit; NY0272817. The facility is operating under the expired NPDES Permit while awaiting the Permit Renewal Application process.

2.0 KEY PARTICIPANTS

Listed below are key inspection participants and contact information, grouped by organization.

U.S. Environmental Protection Agency
Thuan Tran, Lead Inspector
732-321-4455, email: tran.thuan@epa.gov
Robert Morrell, Geologist
Molly Hillenbrand, Environmental Scientist

Village of Woodridge Wastewater Treatment Plant
Travis Steimle, Director of Operations
845-888-5755, email: travis.steimle@h2oinnovation.com
Stephen Valastro, Project Manager
Benjamin Barx, Operator in Training
John Parisi, Project Manager

3.0 FACILITY DESCRIPTION

3.1 General Information

The Village of Woodridge Wastewater Treatment Plant (WWTP) is located on 36 Greenfield Road, Woodridge, New York (NY) and has a designed treatment capacity of 0.8 million gallons per day (MGD) of wastewater. The current WWTP consists of preliminary, secondary, and tertiary treatment, post equalization, disinfection, post aeration, sludge digestion, and dewatering. Before the 2009 upgrade, the facility used to be a pump station with the original lagoon wastewater treatment plant located on River Road. In 2021, the Village of Woodridge contracted with H_2O Innovative to operate and maintain the wastewater treatment plant. The facility receives sanitary wastewater from the Village of Woodridge and part of the Town of Fallsburg as well as pretreated process wastewater from Newburg Egg Processing. The Village of Woodridge WWTP is categorized under Standard Industrial Classification (SIC) 4952 – Sewerage Systems and the North American Industry Classification System (NAICS) 221320 – Sewage Treatment Facilities.

3.2 Process Information

Wastewater flows through the village sewer collection system and converges at the plant through one influent line. The facility also receives some inflow and infiltration (I/I) during wet weather. As wastewater flows to the plant, it is intercepted by the coarse mechanical bar screen that removes rags and large matters. With the rags and large matters removed, the waste stream continues to the vortex grit system which allows heavy solids to drop out. From the grit system, the wastewater continues along the influent channel where sodium hydroxide for pH control and sodium aluminate for phosphorus removal are added. Mixing is provided in-line as the wastewater and added chemicals flow to the fine mechanical screen. As the waste stream passes the fine mechanical screen, the flow is monitored by a Parshall Flume with an ultrasonic flow sensor. Once the flow has been recorded, the wastewater continues to the pre-aeration chamber before it is directed into one (1) of 2 Sequencing Batch Reactor (SBR) basins. The SBRs operating stages are anoxic phase, aeration phase, settling phase, and decanting phase. Decant from the SBRs free-falls into the post-equalization chamber then continues to the cloth disc filtration systems. The filtrate continues to the ultraviolet (UV) disinfection systems which operate seasonally. The effluent is distributed between two (2) post-aeration basins. The overflow from the post-aeration basins combines in the effluent receiving chamber before discharging to Silver Lake via Outfall 001.

Grits removed from the grit removal system and solids from the fine mechanical screen are hauled out by a sludge hauler. Rags and large matters removed from the coarse mechanical bar screen are disposed of as regular trash. Filtrate from the coarse mechanical bar screen, fine mechanical screen and the grit removal chamber returns to the plant for treatment.

Settling solids from the SBRs process are removed as Waste Activated Sludge (WAS). WAS is pumped to the aerobic sludge digestion tank to begin the digestion process. As the digested sludge is pumped to the sludge centrifuge, a polymer is injected in-line to increase solid content. The biosolids is collected in a dump truck and disposed of by Lang EnviroVentures.

Filtrate from the sludge centrifuge and backwash from the cloth disc filtration systems are directed to the pre-aeration chamber ahead of the Sequencing Batch Reactor basins.

3.3 Facility Self-Monitoring Information

Permit compliance samples are performed and collected by the plant personnel. Samples such as pH, temperature, Dissolved Oxygen (DO) and settleable solids (SS) are analyzed on-site. Alkalinity, phosphorus, and ammonia are also analyzed on-site but for process control. Samples for BOD_5, TSS, phosphorus, ammonia, and fecal coliforms are contracted to Sullivan County Laboratories, which is located on 86 Queen Mountain Road, Ferndale, NY 12734. Sample containers are prepared by the contract laboratory and are picked up by a plant personnel. Composite sample is distributed by the plant personnel into the provided sample containers, then chilled in the designated sample refrigerator. The samples are transported to the laboratory in a sample cooler with the chain of custody.

4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

An ISCO automatic composite sampler was programmed to take 24 sample aliquots during the 6-hour sampling event from the effluent monitoring location. The 6-hour composite sample was collected and analyzed for 5-Day Biochemical Oxygen Demand (BOD_5), Total Suspended Solids (TSS), Ammonia (NH_3), and Phosphorus.

On-site grab samples were collected and analyzed for pH, Temperature, Settleable Solids (SS), Dissolved Oxygen (DO), and Total Residual Chlorine (TRC).

In addition, an ISCO automatic composite sampler was programmed to take 24 sample aliquots during the 6-hour sampling event from the influent monitoring location. The 6-hour composite sample was collected and analyzed for BOD_5 and TSS.

Furthermore, at the request of the program office, an ISCO automatic composite sampler was programmed to take a 24-hour composite sample at the treatment plant influent monitoring location for parameters on the Newburg Egg Processing Industrial User (IU) Permit (Permit No.: 001) for potential pass-through interference. The 24-hour composite sample was collected and analyzed for BOD_5, TSS, TKN and Phosphrous. Oil & Grease (O&G) was not collected as a composite sample as stated in the IU Permit. With the concentration limit for O&G based on a composite sample and due to its' nature, multiple grab samples were collected at various time intervals during the 24-hour sampling event. The analytical results were averaged as described in EPA Method 1664 Section 8.3. Also, an on-site sample was collected and analyzed for hydrogen ion (pH).

All sample containers, preservation techniques and holding times were in accordance with USEPA requirements specified in 40 CFR Part 136. Signed and dated custody seals were placed across the lids and along the sides of the sample containers. The custody sealed sample containers were placed inside plastic sample bags and sealed. All samples were transported on ice to the USEPA Laboratory in Edison, New Jersey for analysis.

Flow monitoring data was provided by the Village of Woodridge WWTP instrumentation which was calibrated on October 20, 2022.

Split samples were collected and given to the facility representative.

4.2 Inspection Activities

An NPDES CSI at the Village of Woodridge WWTP was conducted on March 14-15, 2023. Inspector's credential was presented, and business card was provided during the opening conference. It was explained that the purpose of the inspection with supporting on-site activities was to determine if the facility is in compliance.

The supporting on-site activities consist of collecting samples at the influent and effluent monitoring locations, observing and evaluating the monitoring locations, observing and evaluating the facility's sampling protocol, observing and evaluating the wastewater treatment process, observing and evaluating the treated effluent and discharged outfall, review and evaluate the analytical procedures by the facility, and interviewing the facility's representatives.

The facility representatives were unavailable the second day of the inspection. A courier for H_2O Innovative was present to provide access to the influent monitoring location and to receive the split samples. Any concerns discovered from the inspection activities were communicated to the facility representatives at the end of the first day, so they understand their responsibilities to comply with the NPDES Permit as well as state and federal regulations.

4.3 Deviations and/or Environmental Conditions

ISCO automatic composite samplers were assembled and programmed to collect 6-hour composite samples from the influent and effluent monitoring locations during the manned operating hours. Due to a programmatic error for both ISCO automatic composite samplers, the samplers did not collect any sample aliquots. As a result, the automatic composite samplers were reprogrammed to start collecting sample aliquots.

5.0 ANALYTICAL RESULTS

Village of Woodridge WWTP – Outfall 001
Inspection Dates: March 14-15, 2023

Parameters	Units	NPDES Permit Limitations	EPA Results
Flow*	MGD	0.80	0.53
BOD_5	mg/L	5.0 (daily maximum)	6.64
% BOD_5 Removal	%	>/= 85	96
BOD_5 Mass Loading*	lbs./day	33 (daily maximum)	29.4
TSS	mg/L	10 (daily maximum)	U
% TSS Removal*	%	>/= 85	91
TSS Mass Loading*	lbs./day	67 (daily maximum)	44.2
Settleable Solids	ml/L	0.1	Trace
pH	SU	6.5 – 8.5	6.54
Ammonia	mg/L	2.2	U L
Phosphorus	mg/L	0.5	0.08
Dissolved Oxygen	mg/L	7.0 (Minimum)	1st Run: 10 2nd Run: 10
Temperature	°F	70 (Type I)	44.6 (7°C)

Notes: U- The analyte was not detected at or above the Reporting Limit.
L- The identification of the analyte is acceptable; the reported value may be biased low.
Flow*- The total flow provided by the facility is b/t 3PM on 3/14 to 7AM on 3/15 of 0.53 MGD.
Mass Loading for BOD_5 & TSS*: calculation is not representative of continuous discharge.
TSS Percent Removal*: The Reporting Limit of 10 mg/L is used in the calculation.

Newburg Egg Processing Industrial User Permit
Sampling Dates: March 14-15, 2023

Parameters	Units	IU Permit Limitations	EPA Results
BOD_5	mg/L	380 (daily maximum)	170
TSS	mg/L	210 (daily maximum)	109
TKN	mg/L	45 (daily maximum)	10.2
UOD*	mg/L	775 (daily maximum)	301
pH	SU	6.0 – 9.0	7.2
Phosphorus	mg/L	Monitor	0.895
Oil & Grease*	mg/L	50 (daily maximum)	6.2

Notes: UOD* = (1.5 x BOD5) + (4.5 x TKN)
Oil & Grease*: The result is an average.

6.0 FINDINGS

6.1 Sampling Result Findings

The EPA analytical results obtained during this inspection show the following parameter(s) as being outside of the acceptable limits:

6.1.1 According to the NPDES Permit, the daily maximum effluent limitation for the 5-day Biochemical Oxygen Demand (BOD_5) is 5.0 milligrams per liter (mg/L). The analytical result for BOD_5 was determined to be 6.64 mg/L.

6.2 Inspection Findings

In addition to the analytical data, an inspection of the facility operations was conducted as discussed in Section 4.2 above. During the inspection, the following observations were noted which may contravene the requirements of the permit or the applicable regulations:

6.2.1 According to the NPDES Permit, mass loading calculation for 5-day Biochemical Oxygen Demand (BOD_5) and Total Suspended Solids (TSS) is based on pounds per day (lbs./d). Also, the NYSDEC DMR Manual for Completing the Discharge Monitoring Report for State Pollution Discharge Elimination System (SPDES) - 2002, daily discharge is defined as, "*the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass loading, the 'daily discharge' is calculated as the total mass loading of the pollutant discharged over the day."* BOD_5 and TSS are not collected during a calendar day or any 24-hour period. As a result, mass loading calculation for these parameters is not indicative of the treatment plant that receives, treats and discharges continuously for 24 hours.

6.2.2 For the Settleable Solids (SS) test procedure, the Imhoff cone is filled to the 1-Liter mark. The sample is allowed to settle for one (1) hour before reading the result. According to Section 3- Procedure for Settleable Solids (SM-2540 F) in Standard Methods for the Determination of Water and Wastewater; 22nd Edition-2011, it states,

"*Fill an Imhoff cone to the 1-L mark with a well-mixed sample. Settle for 45 min, gently agitate sample near the sides of the cone with a rod or by spinning, settle 15 min longer, and record volume of settleable solids in the cone as milliliters per liter*."

6.2.3 The portable HACH HQ 40d Multi meter is used to determine pH, Temperature & Dissolved Oxygen (DO) for permit compliance. Expired pH buffer solutions are used to calibrate the meter. The observed expiration date for pH buffer 10 solution was February 2023. The observed expiration date for pH buffer 7 solution was December 2022. The observed expiration date for pH buffer 4 solution was February 2023. According to 40 CFR Part 122.41 (e) Proper Operation and Maintenance under Subpart C – Permit Condition, it states, "*The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.* In addition, 40 CFR Part 136.7 Quality Assurance and Quality Control states, "*The permittee/laboratory shall use suitable QA/QC procedures when conducting compliance analyses with any Part 136 chemical method or any alternative method specified by the permitting authority."* Furthermore, Title 6 of NYCRR Part 750-2.5(5) states, "*For instrumentation that is not used by certified laboratory, but which is used to measure discharges to the environment as specified in the SPDES permit, the permittee shall periodically calibrate and perform maintenance procedures to ensure accuracy of the measurements. Verification of maintenance shall be logged into the record book(s) of the facility."*

6.2.4 The pH calibration for the portable meter starts 1st with the 7-buffer, followed by the 4-buffer, and then 3rd with the 10-buffer. According to Section 4 – Procedure for pH Value (SM 4500-H^+ B. Electrometric Method) in Standard Methods for the Determination of Water and Wastewater; 22nd Edition-2011, it states, *"…place in initial buffer solution, and set the isopotential point (4500-H+ .B.2a). Select a second buffer within 2 pH units of the sample pH and bring sample and buffer to same temperature, which may be the room temperature, a fixed temperature such as 25°C, or the temperature of a fresh sample. Remove electrodes from the first buffer, rinse thoroughly with distilled water, blot dry, and immerse in second buffer……. Remove electrodes from second buffer, rinse thoroughly with distilled water and dry electrodes as indicated above. Immerse in a third buffer below pH 10, approximately 3 pH units different from the second; the reading should be within 0.1 unit for the pH of the third buffer."*

6.2.5 The meter/temperature probe was observed not having a correction factor sticker/tag. The meter should be calibrated against a certified NIST (National Institute for Standards and Technology) thermometer. A correction factor tag/sticker with the necessary information should accompany the meter to ensure accurate temperature readings are recorded. According to 40 CFR Part 122.41 (e) Proper Operation and Maintenance under Subpart C – Permit Condition, it states, "*The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permitted to*

achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. In addition, 40 CFR Part 136.7 Quality Assurance and Quality Control states, "*The permittee/laboratory shall use suitable QA/QC procedures when conducting compliance analyses with any Part 136 chemical method or any alternative method specified by the permitting authority."* Furthermore, Title 6 of NYCRR Part 750-2.5(5) states, "*For instrumentation that is not used by certified laboratory, but which is used to measure discharges to the environment as specified in the SPDES permit, the permittee shall periodically calibrate and perform maintenance procedures to ensure accuracy of the measurements. Verification of maintenance shall be logged into the record book(s) of the facility."*

7.0 ATTACHMENTS

Attachment #1. USEPA Chain of Custody for Samples was submitted to the USEPA Lab.

Attachment #2. USEPA Analytical Data Package was received on 04/04/2023.

8.0 PHOTOGRAPHS

Photo #1. An automatic composite sampler was set-up at the effluent monitoring location.

Photo #2. Automatic composite samplers were set-up at the influent monitoring location.

7.0 Attachments

Attachment #1. USEPA Chain of Custody for Samples was submitted to the USEPA Laboratory on Wednesday, 3/15/2023.

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY ___ The Village of Woodridge WWTP

PROJECT LEADER _____ Thuan Tran

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

Decision		RCRA ☐	RCRA ENF ☐	NPDES ☐ X	SDWA ☐	AM ☐	CAA ☐	TSCA ☐	OD ☐	FIFRA ☐	CRIMINAL ENF ☐
Unit Code	Y206	D210	D307	B304	C215	B224	A305	L306	B253		

Permit #: NY0272817 / LAB ID/ FIELD ID	# OF CONTERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS, SPECIAL TEST REQUIREMENTS & ALIQUOTING	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Outfall 001	4	A	☐	2, 1-Liter plastic bottles: BOD5 - 6-Hr Comp.	☐	0	3PM	9PM	3/14/2023
		A	☐	1, 500-ml plastic bottle: TSS - 6-Hr Comp	☐	0	3PM	9PM	3/14/2023
		A	☐	1, 250-ml plastic bottle: NH3/Phosphorus - 6-Hr Comp	☐	01	3PM	9PM	3/14/2023
Influent	2	A	☐	1, 1-liter plastic bottle: BOD5 - 6-Hr Comp	☐	0	3PM	9PM	3/14/2023
		A	☐	1, 250-ml plastic bottle: TSS - 6-hr comp	☐	0	3PM	9PM	3/14/2023
Outfall 001	5	A	☐	1, 290-ml sterilized plastic bottle: Fecal Coliform - Grab #1	☐	04			3/15/2023
		A	☐	1, 290-ml sterilized plastic bottle: Fecal Coliform - Grab #2	☐	04			3/15/2023
		A	☐	1, 290-ml sterilized plastic bottle: Fecal Coliform - Grab #3	☐	04			3/15/2023
		A	☐	1, 290-ml sterilized plastic bottle: Fecal Coliform - Grab #4	☐	04			3/15/2023
		A	☐	1, 290-ml sterilized plastic bottle: Fecal Coliform - Grab #5	☐	04			3/15/2023

MH

Not collected MH MM

COMMENTS & SPECIAL REQUIREMENTS:

Note: Fecal Coliform Containers Laboratory Tracking ID:

w/o Nathio: L1K0870

Preservative Added & Checked

0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

Matrix:

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge
F=multiphasic
G=solvent
H=biota
I=oil
J=other

Survey Complete? Y ☐ N ☐

		Time	Date
Person Assuming Responsibility for Sample(s): Thuan Tran		10AM	3/15/2023
Relinquished By: Thuan Tran	Received By: Molly Hillenbrand MM	10AM	3/15/2023
Relinquished By: Molly Hillenbrand MM	Received By:	12:00 noon	3/15/2023
Relinquished By:	Received By:		

Direct from Sample & chilling initiated at 3/15/23

revised 10/25/2004

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY ___ The Village of Woodridge WWTP

PROJECT LEADER _____ Thuan Tran

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

Decision		RCRA ☐	RCRA ENF ☐	NPDES ☐ X	SDWA ☐	AM ☐	CAA ☐	TSCA ☐	OD ☐	FIFRA ☐	CRIMINAL ENF ☐
Unit Code	Y206	D210	D307	B304	C215	B224	A305	L306	B253		

Permit #: NY0272817

LAB ID/ FIELD ID	# OF CONTAINERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS, SPECIAL TEST REQUIREMENTS & ALIQUOTING	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Influent (Newburg Egg IU)	3	A	☐	1, 1-Liter plastic bottles: BOD5 - 24-Hr Comp.	☐	0	9:35AM	920AM	3/14-15/23
		A	☐	1, 250-ml plastic bottle: TSS - 24-Hr Comp	☐	0	9:35AM	9:20AM	3/14-15/23
		A	☐	1, 250-ml plastic bottle: TKN/Phosphorus - 24-Hr Comp	☐	01	9:35AM	9:20AM	3/14-15/23
Influent (Newburg Egg IU)	5	A	☐	3, 1-Liter WM clear glasses: O&G - Grab #1	☑	01	11:24AM		3/14/2023
		A	☐	1, 1-Liter WM clear glass: O&G - Grab #2	☑	01	3PM		3/14/2023
		A	☐	1, 1-Liter WM clear glass: O&G - Grab #3	☑	01	9am		3/15/2023
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

Notes: Oil & Grease (O&G) samples are to be analyze separately.

Preservative Added & Checked

0=ice	7=FAS
1=H2SO4 pH<2	8=ZnAc
2=HNO3 pH<2	9=NaOH pH>12
3=HCl pH<2	10=NH4Cl
4=Na2S2O3	
5=NaOH pH>9	
6=Ascorbic Acid	

	Time	Date
Person Assuming Responsibility for Sample(s): Thuan Tran	10AM	3/15/2023
Relinquished By: Thuan Tran / Received By: Molly Hillenbrand	10AM	3/15/2023
Relinquished By: Molly Hillenbrand / Received By:	12:00 noon	3/15/2023
Relinquished By: / Received By:		

Matrix:

A=aqueous	F=multiphasic
B=aqueous (chlorinated)	G=solvent
C=soil	H=biota
D=sediment	I=oil
E=sludge	J=other

Survey Complete? Y ☐ N ☐

Attachment #2. USEPA Analytical Data Package was received on Tuesday, 4/04/2023.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

April 04, 2023

Philip Cocuzza
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Village of Woodridge WWTP - 2303014

Enclosed are the results of analyses for samples received by the laboratory on 03/15/2023. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2303014 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limit for each analyte requested.

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall 001-6Hr Comp.	2303014-01	Aqueous	03/14/2023 21:00	03/15/2023 12:00
Influent-6Hr Comp.	2303014-02	Aqueous	03/14/2023 21:00	03/15/2023 12:00
Influent (Newburg Egg IU)-24Hr Com	2303014-08	Aqueous	03/15/2023 09:20	03/15/2023 12:00
Influent (Newburg Egg IU) Grab#1	2303014-09	Aqueous	03/14/2023 11:24	03/15/2023 12:00
Influent (Newburg Egg IU) Grab#2	2303014-10	Aqueous	03/14/2023 15:00	03/15/2023 12:00
Influent (Newburg Egg IU) Grab#3	2303014-11	Aqueous	03/15/2023 09:00	03/15/2023 12:00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Ammonia [As N]	EPA 350.1 SOP C-80 Rev 2.8	NELAP	Aqueous
Biochemical Oxygen Demand	SM 5210B SOP C-21 Rev 2.8	NELAP	Aqueous
Nitrogen, Total Kjeldahl	EPA 351.2 SOP C-40 Rev2.8	NELAP	Aqueous
Oil & Grease	EPA 1664A SOP C-126 Rev 1.7	NELAP	Aqueous
Phosphorus	EPA 365.1 SOP C-68 Rev 2.8	NELAP	Aqueous
Residue, Non-Filterable	SM 2540D SOP C-33 Rev 3.8	NELAP	Aqueous

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Outfall 001-6Hr Comp.			**Sample ID: 2303014-01**			
Sanitary						
Ammonia [As N]	---	U L	0.100	mg/L	B303062	
Biochemical Oxygen Demand	6.64		2.00	mg/L	B303045	03/20/2023 10:39
Phosphorus	0.0806		0.0500	mg/L	B303055	
Total Suspended Solids	---	U	10.0	mg/L	B303054	
Field ID: Influent-6Hr Comp.			**Sample ID: 2303014-02**			
Sanitary						
Biochemical Oxygen Demand	215		2.00	mg/L	B303045	03/20/2023 10:39
Total Suspended Solids	54.7		10.0	mg/L	B303054	
Field ID: Influent (Newburg Egg IU)-24Hr Comp.			**Sample ID: 2303014-08**			
Sanitary						
Biochemical Oxygen Demand	170		2.00	mg/L	B303045	03/20/2023 10:39
Nitrogen, Total Kjeldahl	10.2		0.500	mg/L	B303067	
Phosphorus	0.895		0.0500	mg/L	B303055	
Total Suspended Solids	109		10.0	mg/L	B303054	
Field ID: Influent (Newburg Egg IU) Grab#1			**Sample ID: 2303014-09**			
GC - Sanitary						
Oil & Grease	---	U	6.30	mg/L	B303080	
Field ID: Influent (Newburg Egg IU) Grab#2			**Sample ID: 2303014-10**			
GC - Sanitary						
Oil & Grease	18.6		6.00	mg/L	B303080	
Field ID: Influent (Newburg Egg IU) Grab#3			**Sample ID: 2303014-11**			
GC - Sanitary						
Oil & Grease	---	U	6.30	mg/L	B303080	

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

GC - Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B303080									
Blank (B303080-BLK1)									
Oil & Grease	--- U	5.00	mg/L						
LCS (B303080-BS1)									
Oil & Grease	35.8	5.00	mg/L	40.00		90	78-114		
LCS Dup (B303080-BSD1)									
Oil & Grease	37.5	5.00	mg/L	40.00		94	78-114	5	20
Matrix Spike (B303080-MS1)	**Source: 2303018-01**								
Oil & Grease	48.1	5.00	mg/L	40.00	1.80	116	78-114		
Matrix Spike (B303080-MS2)	**Source: 2303014-09**								
Oil & Grease	49.2	5.00	mg/L	40.00	5.00	110	78-114		

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B303045									
Blank (B303045-BLK1)									
Biochemical Oxygen Demand	--- U	2.00	mg/L						
LCS (B303045-BS1)									
Biochemical Oxygen Demand	186		mg/L	198.0		94.2	84.6-115.4		
LCS (B303045-BS2)									
Biochemical Oxygen Demand	176		mg/L	198.0		88.6	84.6-115.4		
LCS (B303045-BS3)									
Biochemical Oxygen Demand	170		mg/L	198.0		86.1	84.6-115.4		
Duplicate (B303045-DUP1)	**Source: 2303014-02**								
Biochemical Oxygen Demand	184	2.00	mg/L		215			15.6	25
Matrix Spike (B303045-MS1)	**Source: 2303014-02**								
Biochemical Oxygen Demand	686	2.00	mg/L	396.0	215	119	75-125		
Matrix Spike Dup (B303045-MSD1)	**Source: 2303014-02**								
Biochemical Oxygen Demand	662	2.00	mg/L	396.0	215	113	75-125	3.41	200
Batch B303054									
Blank (B303054-BLK1)									
Residue, Non-Filterable	--- U	10.0	mg/L						
LCS (B303054-BS1)									
Residue, Non-Filterable	54.0	10.0	mg/L	55.10		98.0	85-115		

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B303054									
LCS Dup (B303054-BSD1)									
Residue, Non-Filterable	55.0	10.0	mg/L	55.10		99.8	85-115	1.83	20
Duplicate (B303054-DUP1)	**Source: 2303018-04**								
Residue, Non-Filterable	18.0	10.0	mg/L		17.0			5.71	20
Batch B303055									
LCS (B303055-BS1)									
Phosphorus	8.50	0.250	mg/L	8.450		101	90-110		
LCS Dup (B303055-BSD1)									
Phosphorus	8.57	0.250	mg/L	8.450		101	90-110	0.8	20
Matrix Spike (B303055-MS1)	**Source: 2303014-01**								
Phosphorus	1.13	0.0500	mg/L	1.000	0.0806	105	90-110		
Matrix Spike (B303055-MS2)	**Source: 2303018-04**								
Phosphorus	1.50	0.0500	mg/L	1.000	0.521	98	90-110		
Batch B303062									
Blank (B303062-BLK1)									
Ammonia [As N]	--- U	0.100	mg/L						
Blank (B303062-BLK2)									
Ammonia [As N]	--- U	0.100	mg/L						

Final Report

Project: Village of Woodridge WWTP - 2303014

Project Number: 2303014

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B303062									
LCS (B303062-BS1)									
Ammonia [As N]	8.07	1.00	mg/L	8.340		97	90-110		
LCS Dup (B303062-BSD1)									
Ammonia [As N]	8.05	1.00	mg/L	8.340		97	90-110	0.2	20
Matrix Spike (B303062-MS1)	**Source: 2303014-01**								
Ammonia [As N]	4.34	0.100	mg/L	5.000	ND	87	90-110		
Batch B303067									
Blank (B303067-BLK1)									
Nitrogen, Total Kjeldahl	--- U	0.100	mg/L						
Blank (B303067-BLK2)									
Nitrogen, Total Kjeldahl	--- U	0.100	mg/L						
LCS (B303067-BS1)									
Nitrogen, Total Kjeldahl	13.7	0.200	mg/L	12.40		110	90-110		
LCS Dup (B303067-BSD1)									
Nitrogen, Total Kjeldahl	13.4	0.200	mg/L	12.40		108	90-110	2	20
Matrix Spike (B303067-MS1)	**Source: 2303014-08**								
Nitrogen, Total Kjeldahl	14.7	0.500	mg/L	4.000	10.2	112	90-110		
Matrix Spike (B303067-MS2)	**Source: 2303018-04**								
Nitrogen, Total Kjeldahl	33.6	1.00	mg/L	4.000	28.8	120	90-110		

8.0 Photographs

Photo #1. 6-Hour & 24-Hour composite samples were collected from the influent sample point.

Photo #2. 6-Hour composite sample was collected from the effluent monitoring location.