NPDES Compliance Sampling Inspection Report

Albert M. Nelthropp (Anguilla) Wastewater Treatment Facility

St. Croix, United States Virgin Islands

VI0020036

November 4-5, 2021

Report Prepared by:

ROBERT MORRELL
Digitally signed by ROBERT MORRELL
Date: 2021.12.03 18:08:10 -05'00'

Robert Morrell, Geologist
Monitoring Operations Section

Date: _____

Report Approved by:

PHILIP COCUZZA
Digitally signed by PHILIP COCUZZA
Date: 2021.12.03 04:08:22 -05'00'

Philip Cocuzza, Chief
Monitoring Operations Section

Date: _____

1.0 OBJECTIVE

On November 4-5, 2021, at the request of the Caribbean Environmental Protection Division, a National Pollutant Discharge Elimination System (NPDES) Compliance Sampling Inspection (CSI) was conducted at the Albert M. Nelthropp (Anguilla) Wastewater Treatment Facility in St. Croix, United States Virgin Islands. The objective of the CSI was to gather information necessary to determine compliance with the requirements and limitations of TPDES Permit No. VI0020036.

2.0 KEY PARTICIPANTS

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

U.S. Environmental Protection Agency
Robert Morrell, Geologist, Lead Inspector
Morrell.robert@epa.gov, 732-906-6804
Thuan Tran, Physical Scientist
Tran.thuan@epa.gov, 732-321-4455

Albert M. Nelthropp (Anguilla) Wastewater Treatment Facility
Victor Cosart, Plant Manager/Operator, VWNA Caribbean
Victor.cosart@veolia.com, 813-499-8814

U.S. Virgin Islands Department of Planning and Natural Resources
Courtney Dickenson, Environmental Program Manager
Courtney.dickenson@dpnr.vi.gov, 340-514-3666

3.0 FACILITY DESCRIPTION

3.1 General Information

The Anguilla Wastewater Treatment Facility is located on East Airport Road at Estate Bethlehem Middle Works in St. Croix, U.S. Virgin Islands. The wastewater treatment plant was originally built as a primary treatment plant but was upgraded to a sequential batch reactor (SBR) plant around 2007. The facility is categorized as Standard Industrial Classification (SIC) Code 4952. The plant operates 24 hours per day, 7 days per week.

3.2 Process Information

The Anguilla Wastewater Treatment Facility is a sequential batch reactor (SBR) plant consisting of three SBR's. Average flow for the plant is 1.5 million gallons per day (mgd) with a design capacity of 4 mgd. Most of the influent wastewater is domestic. Influent

wastewater flows through a mechanical bar screen and into a grit chamber. Solids from the bar screen and grit chamber are collected in a container and transported to the Anguilla Landfill for disposal. Influent flow is monitored continuously with a Venturi meter. The influent wastewater flows into one of two primary clarifiers. During the sampling inspection, only one clarifier was in service. Wastewater from the clarifiers flows to the primary effluent pumping station, where it is pumped to one of three SBR's. Treatment in each SBR consists of four stages: the fill stage, aeration stage, settlement stage, and decant stage. During the walk-through inspection, SBR 1 was in the settlement stage, SBR 2 was in the aeration stage, and SBR 3 was in the decant stage. Each SBR requires approximately 35 minutes for filling, 15 minutes for aeration, and 90 minutes for settling. After settling, the decant stage is started. Decant wastewater is discharged to the equalization tank. The wastewater then flows through a series of disc filters, which are currently out of service. The wastewater is conveyed to one of two ultraviolet (UV) channels for disinfection. Most of the UV lamps were out of service during the sampling inspection. The wastewater flows over a rectangular weir, where a primary flow monitoring device records the flow continuously. Finally, the wastewater is discharged through Outfall 001 to Krause Lagoon.

Waste activated sludge from the SBR's is pumped to one of two secondary aerobic digesters. The primary aerobic digester is out of service. After digestion, the sludge is pumped to the sludge drying beds. After drying, the sludge is placed in a container and transported to the Anguilla Landfill for disposal.

3.3 Facility Self-Monitoring Information

Samples are collected and analyzed on-site for temperature, pH, and dissolved oxygen. Phosphorus, turbidity, oil and grease, total suspended solids (TSS), and 5-day biochemical oxygen (BOD_5) are analyzed by Benchmark Analytics in Florida. Fecal coliform and enterococci are analyzed at the Red Point Wastewater Treatment Facility laboratory in St. Thomas. Flow is measured continuously at the influent and effluent sampling locations.

4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

On November 4, 2021, an automatic composite sampler was set up at the influent sampling location. The sampler was programmed to collect an aliquot of the influent wastewater every 15 minutes for 24 hours. The composite sample container was packed in ice.

An automatic composite sampler was also set up at the effluent sampling location for Outfall 001. The sampler was programmed to collect an aliquot of the effluent wastewater every 15 minutes for 24 hours. The composite sample container was packed in ice.

Using a rod and clamp, five consecutive grab samples (Grab #1, Grab #2, Grab #3, Grab #4, and Grab #5) were collected 15 minutes apart at the effluent sampling location for Outfall

001. These samples were delivered to Ocean Systems Laboratories in St. Croix for the analysis of fecal coliform and enterococci.

Grab samples were collected at the effluent sampling location for the on-site analysis of pH, temperature, dissolved oxygen, and total residual chlorine. The results were recorded in the field notebook.

On November 5, 2021, a 24-hour composite sample was collected from the automatic sampler at the influent sampling location. This sample was analyzed for BOD_5 and TSS.

A 24-hour composite sample was collected from the automatic sampler at the effluent sampling location for Outfall 001. This sample was analyzed for BOD_5 and TSS.

Using a rod and clamp, a grab sample (Grab #6) was collected at the effluent sampling location for Outfall 001. This sample was analyzed for phosphorus, oil and grease, and turbidity.

Flow readings were provided by the facility representative. The 24-hour effluent flow for 11/4/21 was 1.40 mgd.

All sample containers, preservation techniques, and holding times were in accordance with U.S. EPA requirements specified in 40 CFR Part 136. Samples for fecal coliforms and enterococci were placed in a cooler with wet ice and transported to Ocean Systems Laboratories in St. Croix, U.S. Virgin Islands. All other samples were placed in a cooler with wet ice and shipped overnight to the U.S. EPA Region 2 Laboratory in Edison, New Jersey. Split samples were offered but declined by the facility representative.

4.2 Inspection Activities

A walk-through inspection of the Anguilla Wastewater Treatment Facility was conducted and the inspection findings are listed in Section 6.2.

4.3 Deviations and/or Environmental Conditions

Oil from a septic hauler was recently pumped into the septic receiving manhole, causing oil to accumulate in one of the primary clarifiers. According to the operator, this has also caused the turbidity to be higher than normal in the equalization tank.

5.0 ANALYTICAL RESULTS

Anguilla Wastewater Treatment Facility
November 4-5, 2021
Outfall 001

Parameter	Influent	Effluent	Permit Limit
Flow (mgd)	--	1.40	8.0
BOD_5 (mg/l)	71.4 J*	20.6 J*	30
BOD_5 (percent removal)	--	71.1 J*	85 (minimum)
TSS (mg/l)	43.0	20.0	30
TSS (percent removal)	--	53.5	85 (minimum)
Phosphorus (mg/l)	--	3.84	Monitor only
Fecal Coliforms (CFU/100 ml)	--	>6000	1000
Fecal Coliforms (CFU/100 ml)	--	>6000	1000
Fecal Coliforms (CFU/100 ml)	--	>6000	1000
Fecal Coliforms (CFU/100 ml)	--	>6000	1000
Fecal Coliforms (CFU/100 ml)	--	>6000	1000
Fecal Coliforms (CFU/100 ml) (Geometric Mean - 5 samples)	--	>6000	1000
Enterococci (CFU/100 ml)	--	>6000	Monitor only
Enterococci (CFU/100 ml)	--	>6000	Monitor only
Enterococci (CFU/100 ml)	--	>6000	Monitor only
Enterococci (CFU/100 ml)	--	>6000	Monitor only
Enterococci (CFU/100 ml)	--	>6000	Monitor only
Enterococci (CFU/100 ml) (Geometric Mean - 5 samples)	--	>6000	Monitor only
Dissolved Oxygen (mg/l)	--	5.5	Monitor only
Temperature (°C)	--	31.5	Monitor only
pH (su)	--	7.70	6.0 – 9.0
Oil and Grease (mg/l)	--	Not detected	Monitor only
Total Residual Chlorine (mg/l)	--	0.04	--
Turbidity (NTU)	--	14.6 J*	Monitor only

J = Estimated value
*Due to a delay in shipping, the holding time was exceeded.

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:

Fecal Coliforms (see above table).
TSS Percent Removal (see above table).

6.2 Inspection Findings

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

1. A septic hauler recently pumped oil into the septic receiving manhole causing a disruption of the operation of the treatment plant. In the future, it is recommended that all septic haulers have their loads properly screened and inspected before unloading.

2. The disc filters are currently out of service. It is recommended that the filtration system be serviced and operational, as this will improve turbidity levels prior to UV disinfection.

3. The UV disinfection system is not fully operational and needs to be serviced. Most of the UV lamps need to be replaced.

4. The flow meters at the influent and effluent locations haven't been calibrated in the last few years. Flow meters should be calibrated at least once per year.

7.0 ATTACHMENTS

Photographs (#1 - #8)
EPA Laboratory Data Report
Ocean Systems Laboratories Data Report
Chain of Custody / Field Data Forms

Photo #1: View of the effluent sampling location for Outfall 001.

Photo #2: View of the influent sampling location.

Photo #3: View of SBR 1.

Photo #4: View of SBR 2.

Photo #5: View of SBR 3.

Photo #6: View of the equalization tank.

Photo #7: View of the secondary aerobic digester.

Photo #8: View of the sludge drying beds.

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

November 17, 2021

Bob Morrell
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Anguilla -Albert Nelthropp- WWTP - 2111017

Enclosed are the results of analyses for samples received by the laboratory on 11/08/2021. 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 2111017 and contact the laboratory.

Sincerely,

Ness Tirol
Acting Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

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

Turbidity Analysis, Sample 2111017-03: The Laboratory received the samples past the established holding time of 48 hours due to shipping delay. The result was qualified with a “J” to indicate an estimated value.

Biochemical Oxygen Demand- Samples were received past the holding time. The results for samples 2111017-01 and 2111017-02 were qualified with a "J" as an estimated value.

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: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

Reporting Limit(s):

The Laboratory was able to achieve the standard laboratory reporting limits, where applicable, for each analyte requested except for the following analyte(s):

GC - Sanitary

The reporting level of 5.00 mg/L was raised to 6.8 mg/L for the following analyte(s):
Oil & Grease
for the following samples:
2111017-03

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent-24 Hr. Comp.	2111017-01	Aqueous	11/05/2021 10:29	11/08/2021 10:08
Effl-Outfall-24 Hr. Comp	2111017-02	Aqueous	11/05/2021 10:36	11/08/2021 10:08
Effl-Outf001-Grab#6	2111017-03	Aqueous	11/05/2021 11:20	11/08/2021 10:08

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Biochemical Oxygen Demand	SM 5210B SOP C-21 Rev 2.7	NELAP	Aqueous
Oil & Grease	EPA 1664A SOP C-126 Rev 1.6	NELAP	Aqueous
Phosphorus	EPA 365.1 SOP C-68 Rev 2.7	NELAP	Aqueous
Residue, Non-Filterable	SM 2540D SOP C-33 Rev 3.7	NELAP	Aqueous
Turbidity	EPA 180.1 SOP C-81 Rev 2.7	NELAP	Aqueous

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Influent-24 Hr. Comp.			**Sample ID: 2111017-01**			
Sanitary						
Biochemical Oxygen Demand	71.4	J	2.00	mg/L	B111066	11/13/2021 09:41
Residue, Non-Filterable	43.0		10.0	mg/L	B111074	
Field ID: Effl-Outfall-24 Hr. Comp			**Sample ID: 2111017-02**			
Sanitary						
Biochemical Oxygen Demand	20.6	J	2.00	mg/L	B111066	11/13/2021 09:41
Residue, Non-Filterable	20.0		10.0	mg/L	B111074	
Field ID: Effl-Outf001-Grab#6			**Sample ID: 2111017-03**			
GC - Sanitary						
Oil & Grease	---	U	6.80	mg/L	B111088	
Sanitary						
Phosphorus	3.84		0.500	mg/L	B111073	
Turbidity	14.6	J	0.100	NTU	B111069	11/08/2021 12:15

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

GC - Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111088									
Blank (B111088-BLK1)									
Oil & Grease	--- U	5.00	mg/L						
LCS (B111088-BS1)									
Oil & Grease	34.2	5.00	mg/L	40.00		86	78-114		
LCS Dup (B111088-BSD1)									
Oil & Grease	37.9	5.00	mg/L	40.00		95	78-114	10	20
Matrix Spike (B111088-MS1)	**Source: 2111017-03**								
Oil & Grease	39.8	5.00	mg/L	49.38	ND	81	78-114		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111066									
Blank (B111066-BLK1)									
Biochemical Oxygen Demand	--- U	2.00	mg/L						
LCS (B111066-BS1)									
Biochemical Oxygen Demand	209		mg/L	198.0		106	84.6-115.4		
LCS (B111066-BS2)									
Biochemical Oxygen Demand	216		mg/L	198.0		109	84.6-115.4		
LCS (B111066-BS3)									
Biochemical Oxygen Demand	218		mg/L	198.0		110	84.6-115.4		
Duplicate (B111066-DUP1)		**Source: 2111017-02**							
Biochemical Oxygen Demand	16.3	2.00	mg/L		20.6			23.4	25
Matrix Spike (B111066-MS1)		**Source: 2111017-01**							
Biochemical Oxygen Demand	494	2.00	mg/L	396.0	71.4	107	75-125		
Matrix Spike Dup (B111066-MSD1)		**Source: 2111017-01**							
Biochemical Oxygen Demand	444	2.00	mg/L	396.0	71.4	94.2	75-125	10.6	200
Batch B111069									
LCS (B111069-BS1)									
Turbidity	17.1	0.100	NTU	16.50		104	85-115		
LCS Dup (B111069-BSD1)									
Turbidity	17.0	0.100	NTU	16.50		103	85-115	0.587	20

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Anguilla -Albert Nelthropp- WWTP - 2111017

Project Number: 2111017

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111069									
Duplicate (B111069-DUP1)		**Source: 2111017-03**							
Turbidity	14.5	0.100	NTU		14.6			0.687	20
Batch B111073									
LCS (B111073-BS1)									
Phosphorus	2.30	0.250	mg/L	2.220		103	90-110		
LCS Dup (B111073-BSD1)									
Phosphorus	2.37	0.250	mg/L	2.220		107	90-110	3	20
Matrix Spike (B111073-MS1)		**Source: 2111017-03**							
Phosphorus	4.45	0.500	mg/L	1.000	3.84	61	90-110		
Batch B111074									
Blank (B111074-BLK1)									
Residue, Non-Filterable	--- U	10.0	mg/L						
LCS (B111074-BS1)									
Residue, Non-Filterable	55.0	10.0	mg/L	54.30		101	85-115		
LCS Dup (B111074-BSD1)									
Residue, Non-Filterable	55.0	10.0	mg/L	54.30		101	85-115	0.00	20
Duplicate (B111074-DUP1)		**Source: 2111017-02**							
Residue, Non-Filterable	19.0	10.0	mg/L		20.0			5.13	20

OCEAN SYSTEMS LABORATORY, INC.
4049 LA GRANDE PRINCESSE SUITE 2, CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS 00820-4318
EPA ID: VI00016
TEL 340-718-3246 FAX 340-718-3800

Fecal and Enterococci Results

Site Description: ST. CROIX, Anguilla WWTP
Client: VWNA Caribbean
Date Sampled: 11/04/2021
Sampler: Bob Morrell

RESULTS:

				Fecal Coliform				Enterococci			
				m-FC			Count	m-E1			Count
Lab No.	Sample Description	Sample Time	Turbidity (NTU)	100 mL	10 mL	1 mL	/100mL	100 mL	10 mL	1 mL	/100mL
7923	Effluent 1	1101	7.40	TNTC	TNTC	TNTC	>6000	TNTC	TNTC	TNTC	>6000
7924	Effluent 2	1116	8.64	TNTC	TNTC	TNTC	>6000	TNTC	TNTC	TNTC	>6000
7925	Effluent 3	1131	6.87	TNTC	TNTC	TNTC	>6000	TNTC	TNTC	TNTC	>6000
7926	Effluent 4	1146	8.90	TNTC	TNTC	TNTC	>6000	TNTC	TNTC	TNTC	>6000
7927	Effluent 5	1201	7.56	TNTC	TNTC	TNTC	>6000	TNTC	TNTC	TNTC	>6000

Received at the Lab: 11/04/2021	**Received by: B. Stanley Temp: 10°C**
	Analyzed by: Brittani Stanley **on** 11/04/2021 @1410
Results read by Brittani Stanley on 11/05/2021@ 1230	
Notes:	

Approved: _____ Date: 11/8/2021
Brittani Stanley

Definitions:
TNTC = >6000
(J): Estimated Value Calculated
0= <1

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Anguilla WWTP- St. Croix, VI

PROJECT LEADER: Bob Morrell

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

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

Permit #: VI0020036

LAB ID/ FIELD ID	# OF CONTERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Effluent-Outfall001-Grab#1	1	A	☐	1 500-ml sterile plastic jar for Fecal Coliform/Enterococci	☑	0 1 2 3 4 5 6 7 8 9 10		1101	11/04/21
Effluent-Outfall001-Grab#2	1	A	☐	1 500-ml sterile plastic jar for Fecal Coliform/Enterococci	☑	0 1 2 3 4 5 6 7 8 9 10		1116	11/04/21
Effluent-Outfall001-Grab#3	1	A	☐	1 500-ml sterile plastic jar for Fecal Coliform/Enterococci	☑	0 1 2 3 4 5 6 7 8 9 10		1131	11/04/21
Effluent-Outfall001-Grab#4	1	A	☐	1 500-ml sterile plastic jar for Fecal Coliform/Enterococci	☑	0 1 2 3 4 5 6 7 8 9 10		1146	11/04/21
Effluent-Outfall001-Grab#5	1	A	☐	1 500-ml sterile plastic jar for Fecal Coliform/Enterococci	☑	0 1 2 3 4 5 6 7 8 9 10		1201	11/04/21
			☐		☐	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			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked

0=ice
1=H_2SO_4 pH<2
2=HNO_3 pH<2
3=HCl pH<2
4=$Na_2S_2O_3$
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH_4Cl

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A. Morrell, Jr.	1201	11/4/21
Relinquished By: Robert A. Morrell, Jr. / Received By: BSt	1231	11/4/21
Relinquished By: / Received By:		
Relinquished By: / Received By:		

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 ☐

10C JPC

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Anguilla WWTP - St. Croix, VI

PROJECT LEADER: Rob Morrell

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____

PROGRAM RESULTS CODE _____

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

Permit #: VI0020036

LAB ID/ FIELD ID	# OF CONTERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Influent - 24 Hr Comp	2	A	☐	1 1-liter plastic jar for BOD5	2111017-01	☐ 0 1 2 3 4 5 6 7 8 9 10	1029		11/04/21
			☐	1 250-ml plastic jar for TSS	-01	☐ 0 1 2 3 4 5 6 7 8 9 10		1029	11/05/21
Effl - Outfool - 24 hr Comp	3	A	☐	2 1-liter plastic jars for BOD5	-02	☐ 0 1 2 3 4 5 6 7 8 9 10	1036		11/04/21
			☐	1 500-ml plastic jar for TSS	-02	☐ 0 1 2 3 4 5 6 7 8 9 10		1036	11/05/21
Effl - Outfool - Grab *6	5	A	☐	1 125-ml plastic jar for Phosphorus	-03	☐ 0 1 2 3 4 5 6 7 8 9 10		1120	11/05/21
			☐	3 1-liter glass jars for O&G	-03	☐ 0 1 2 3 4 5 6 7 8 9 10			
			☐	1 250-ml plastic jar for Turbidity	-03	☐ 0 1 2 3 4 5 6 7 8 9 10			
			☐			☐ 0 1 2 3 4 5 6 7 8 9 10			
			☐		11/8/21	☐ 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:

(*) BOD & Turbidity recv'd outside of Hold time 11/8/21

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

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A. Morrell Jr.	1120	11/5/21
Relinquished By: Robert A. Morrell Jr. / Received By: [signature]	10:08	11/8/21
Relinquished By: / Received By:		
Relinquished By: / Received By:		

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 ☐

Temp = 1.3°C on ice 11/8/21

revised 10/25/2004