NPDES Compliance Sampling Inspection Report

Vessup POTW
Nazareth Estate 10 Red Hook Qtr.
Saint Thomas, USVI 00802

Permit Number: VI0020133

Inspection date: 12 NOV 2021

Participating Personnel:

US Environmental Protection Agency
Neal R. Johansen, Physical Scientist
Kathleen M. Foley, Physical Scientist

Vessup POTW
DeShaun Estrill, Operations Supervisor

Report Submitted By:

Johansen, Neal Digitally signed by Johansen, Neal
Date: 2021.12.15 11:09:27 -05'00'

Neal R. Johansen, Physical Scientist

Approved By:

PHILIP COCUZZA Digitally signed by PHILIP COCUZZA
Date: 2021.12.15 10:36:01 -05'00'

Phil Cocuzza, Chief Monitoring Operations Section

1.0 OBJECTIVE

On November 12, 2021, at the request of the United States Environmental Protection Agency (US EPA), a National Pollution Discharge Elimination System (NPDES) Compliance Sampling Inspection (CSI) was conducted at the Vessup Public Owned Treatment Works (POTW) in Saint Thomas, US Virgin Islands. The objective of the CSI was to determine the facility's compliance with the requirements and limitations of TPDES permit number VI0020133.

2.0 KEY PARTICIPANTS

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

U.S. Environmental Protection Agency
Neal R. Johansen, Physical Scientist (732) 321-6691
Kathleen M. Foley, Physical Scientist (732) 321-6790

Vessup POTW
DeShaun Estrill, Operations Supervisor, Phone: (340) 643-0423

3.0 FACILITY DESCRIPTION

3.1 General Information

Vessup POTW is located at Nazareth Estate 10 Red Hook Quarter on Saint Thomas Island, US Virgin Islands. The actual facility location can better be described as, at the corner of Vessup Lain and Red Hook Road, on Saint Thomas Island. The facility is a small Public Owned Treatment Works. It is a circular structure that began operations about fifty years ago. The facility has intermittent staffing depending on the time of day and influent volume requirements. The specific North American Industrial Classification System (NAICS) code is 221320, for Sewage Treatment Facilities. The facility has two structures on a small amount of land with limited parking. It has three fulltime employees that report to the facility as needed. The plant's most recent permit became effective on 01 October 2016. The permit expired on 30 September 2021, with no letter of extension on file.

3.2 Process Information

The plant has an average water outflow that varies throughout the day and per influent level requirements. During the time of inspection, the plant was being operated as a batch plant due to a failed list pump. An external list pump was being used to move influent from influent well up to the plant for processing. This external pump must be

manually activated by plant employees. The permit requires monitoring of the daily maximum discharge with reporting of weekly and monthly average flow. The maximum daily allowable discharge is 0.10 Million Gallons Daily (MGD). The permitted discharge location for outfall 001 is to Vessup Bay (Red Hook Subwatershed). Outfall 001 is required to be monitored during its constant discharge.

Influent water enters the plant system and is passed through a simple screening process. At this point excess grease is manually removed for landfill disposal at Bovoni Landfill. The screened inlet water is then pumped to the plant's processing structure. The screened wastewater is pumped to an aeration tank and digester, an additional aeration tank can be used as required. The wastewater is then sent to a clarifier in the center of the structure. It is then pumped through a chlorination tank and discharged through outfall 001. Storm water runoff from the facility is untreated, and gravity flows to the Vessup Bay.

3.3 Facility Self-Monitoring Information

The wastewater from the Vessup POTW is analyzed on site by staff for flow, temperature, dissolved oxygen, pH and chlorine. The remaining parameters are analyzed by the USVI Waste Management Authority Laboratory for Biological Oxygen Demand (BOD_5), Total Suspended Solids (TSS), phosphorus, and enterococci bacteria. They are an EPA certified laboratory and are located at the Mangrove Lagoon on Landfill road Estate Bovoni, Saint Thomas, USVI 00802. Plant personnel collect grab samples and conduct onsite analysis during batch processing. They collect an enterococci bacteria sample twice a day. Laboratory results are issued monthly on the Discharge Monitoring Reports (DMR) as required by permit number VI0020133.

4.0 EPA SAMPLING / INSPECTION ACTIVITIES

4.1 Sampling Activities

Grab samples were collected from outfall 001 and the influent chamber. The samples were analyzed onsite for, pH, chlorine, temperature, and dissolved oxygen. Total flow for the 24-hour time period was obtained from the facility personnel. Additional grab samples were collected from the influent and effluent outfall 001. These samples were delivered to the USEPA Edison, New Jersey Laboratory. They were analyzed for BOD_5, TSS, and phosphorous. Enterococci bacteria samples were collected at two different times and delivered to Ocean Systems Laboratory located at 6194 Estate Frydenhoj #43, Saint Thomas, USVI 00802. Due to collection time restrictions these samples were collected first on 08 November 2021 and the second on 09 November 2021. All sample containers, preservation techniques, conformed to USEPA

requirements specified in 40 CFR Part 136. A chain-of-custody was created on site for all samples and signed over to laboratory personnel upon delivery. The complete analytical data package is attached with the report.

4.2 Inspection Activities

On the day of the sampling inspection, a short opening conference and safety brief was conducted with the facility Operations Supervisor Mr. DeShaun Estrill. The inspectors presented identification and credentials, and explained the nature of the inspection. Mr. DeShaun Estrill then provided a tour and explanation of the facility and its features. Grab samples were collected, and measurements were also gathered from the influent changer and effluent of outfall 001. Multiple DMR's covering the months of April 2019 and April 2020 were examined while the inspection team was onsite.

5.0 ANALYTICAL RESULTS

Vessup Public Owned Treatment Works, Saint Thomas, USVI
CSI
November 12, 2021

Parameter	Units	Permit Limit	EPA Result	Compliance Result
pH	S.U.	7 to 8.3	7.47	Compliance
Temperature	°C	32	30.0	Compliance
Flow	MGD	0.10	1.074	Noncompliance
Chlorine, Free	µg/L	7.5 to 13	420	Noncompliance
Disolved Oxygen	mg/L	5.5	5.0	Noncompliance
Biological Oxygen Demand (BOD_5)	mg/L	30	9.68 J	Compliance
BOD5 Percent Removal	%	85	98.8 J	Compliance
Total Suspended Solids (TSS)	mg/L	30	10 U	Compliance
TSS Percent Removal	%	85	93.7 U	Compliance
Phosphorous	µg/L	50	1150	Noncompliance
Enterococci Sample 1	#/100 mL	110	< 1	Compliance
Enterococci Sample 2	#/100 mL	110	410	Noncompliance

U: Not detected value is the reporting limit
J: The report value is an estimate due to sample being received outside of holding time

6.0 FINDINGS

6.1 Sampling Result Findings

The DMR's examined did not show any reporting errors and appear to be submitted in the required time frame. However, because the phosphorous detector was down at the VI WMA Laboratory the facility was not collecting phosphorous samples.

Laboratory results indicate that the effluent limitations of TPDES Permit Number VI0020133 page 4 are not being met. The facility is failing to meet its phosphorous removal requirement and is exceeding the maximum allowed chlorine discharge. However, this inspector has never seen a permit limitation of phosphorous and chlorine in the µg/mL level. It is normally in the mg/mL level. Mr. Estrill was asked about this and he indicated that he was talking to the permit writers about the very low limit requirement. The second enterococci sample failed inspection. The disolved oxygen requirement is also below the minimum standard.

The plant is exceeding the allowable daily discharge of 0.10 MGD. However, the flowmeter for the facility is damaged and is providing an inaccurate measurement, so it cannot be truly stated that the facility is exceeding its discharge limitation.

The plant appears to be in poor condition due to being far past its life expectancy. The plant was also severely damaged by hurricane Erma. The Operations Supervisor needs to run the plant as a batch plant due to these damages and cannot run it as a continuous flow plant. There are planes to replace the plant with a new plant, but the dates for this replacement are not set.

7.0 ATTACHMENTS

Photographs (#1- #4)
Laboratory Data Report
Chain of Custody

PHOTO LOG

Photo #1: Influent

Photo #2: Effluent Outfall 001

Photo #3: Vessup Plant

Photo #4: Vessup Plant Topside

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

November 22, 2021

Neal Johansen
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Vessup POTW - 2111019

Enclosed are the results of analyses for samples received by the laboratory on 11/15/2021. 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 2111019 and contact the laboratory.

Sincerely,

Ness Tirol
Acting Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Vessup POTW - 2111019
Project Number: 2111019

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

Biochemical Oxygen Demand (BOD) - Samples 2111019-01 and 2111019-02 were analyzed past the holding time for BOD since the samples were received by the laboratory after the holding time had expired. Sample results are qualified with a J as estimated.

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.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Vessup POTW - 2111019
Project Number: 2111019

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
20211112 EPA BOD I	2111019-01	Aqueous	11/12/2021 08:46	11/15/2021 10:00
20211112 EPA BOD E	2111019-02	Aqueous	11/12/2021 08:51	11/15/2021 10:00
20211112 EPA TSS I	2111019-03	Aqueous	11/12/2021 08:48	11/15/2021 10:00
20211112 EPA TSS E	2111019-04	Aqueous	11/12/2021 08:53	11/15/2021 10:00
20211112 EPA PHOS	2111019-05	Aqueous	11/12/2021 08:55	11/15/2021 10:00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Vessup POTW - 2111019
Project Number: 2111019

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20211112 EPA BOD I	2111019-01	Aqueous	11/12/2021 08:46	11/15/2021 10:00
20211112 EPA BOD E	2111019-02	Aqueous	11/12/2021 08:51	11/15/2021 10:00
20211112 EPA TSS I	2111019-03	Aqueous	11/12/2021 08:48	11/15/2021 10:00
20211112 EPA TSS E	2111019-04	Aqueous	11/12/2021 08:53	11/15/2021 10:00
20211112 EPA PHOS	2111019-05	Aqueous	11/12/2021 08:55	11/15/2021 10:00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report
Project: Vessup POTW - 2111019
Project Number: 2111019

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Biochemical Oxygen Demand	SM 5210B SOP C-21 Rev 2.7	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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Vessup POTW - 2111019
Project Number: 2111019

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: 20211112 EPA BOD I			**Sample ID: 2111019-01**			
Sanitary						
Biochemical Oxygen Demand	807	J	2.00	mg/L	B111114	11/20/2021 07:52
Field ID: 20211112 EPA BOD E			**Sample ID: 2111019-02**			
Sanitary						
Biochemical Oxygen Demand	9.68	J	2.00	mg/L	B111114	11/20/2021 07:52
Field ID: 20211112 EPA TSS I			**Sample ID: 2111019-03**			
Sanitary						
Residue, Non-Filterable	158		10.0	mg/L	B111137	
Field ID: 20211112 EPA TSS E			**Sample ID: 2111019-04**			
Sanitary						
Residue, Non-Filterable	---	U	10.0	mg/L	B111137	
Field ID: 20211112 EPA PHOS			**Sample ID: 2111019-05**			
Sanitary						
Phosphorus	1.15		0.0500	mg/L	B111113	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Vessup POTW - 2111019

Project Number: 2111019

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111113									
LCS (B111113-BS1)									
Phosphorus	2.24	0.250	mg/L	2.220		101	90-110		
LCS Dup (B111113-BSD1)									
Phosphorus	2.26	0.250	mg/L	2.220		102	90-110	0.9	20
Matrix Spike (B111113-MS1)	**Source: 2111021-02**								
Phosphorus	6.94	0.500	mg/L	1.000	6.55	39	90-110		
Matrix Spike (B111113-MS2)	**Source: 2111019-05**								
Phosphorus	2.11	0.500	mg/L	1.000	1.15	96	90-110		
Batch B111114									
Blank (B111114-BLK1)									
Biochemical Oxygen Demand	-- U	2.00	mg/L						
LCS (B111114-BS1)									
Biochemical Oxygen Demand	182		mg/L	198.0		92.2	84.6-115.4		
LCS (B111114-BS2)									
Biochemical Oxygen Demand	190		mg/L	198.0		95.8	84.6-115.4		
LCS (B111114-BS3)									
Biochemical Oxygen Demand	202		mg/L	198.0		102	84.6-115.4		
Batch B111137									
Blank (B111137-BLK1)									
Residue, Non-Filterable	-- U	10.0	mg/L						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Vessup POTW - 2111019

Project Number: 2111019

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111113									
LCS (B111113-BS1)									
Phosphorus	2.24	0.250	mg/L	2.220		101	90-110		
LCS Dup (B111113-BSD1)									
Phosphorus	2.26	0.250	mg/L	2.220		102	90-110	0.9	20
Matrix Spike (B111113-MS1)	**Source: 2111021-02**								
Phosphorus	6.94	0.500	mg/L	1.000	6.55	39	90-110		
Matrix Spike (B111113-MS2)	**Source: 2111019-05**								
Phosphorus	2.11	0.500	mg/L	1.000	1.15	96	90-110		
Batch B111114									
Blank (B111114-BLK1)									
Biochemical Oxygen Demand	-- U	2.00	mg/L						
LCS (B111114-BS1)									
Biochemical Oxygen Demand	182		mg/L	198.0		92.2	84.6-115.4		
LCS (B111114-BS2)									
Biochemical Oxygen Demand	190		mg/L	198.0		95.8	84.6-115.4		
LCS (B111114-BS3)									
Biochemical Oxygen Demand	202		mg/L	198.0		102	84.6-115.4		
Batch B111137									
Blank (B111137-BLK1)									
Residue, Non-Filterable	-- U	10.0	mg/L						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Vessup POTW - 2111019

Project Number: 2111019

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B111137									
LCS (B111137-BS1)									
Residue, Non-Filterable	54.0	10.0	mg/L	54.30		99.4	85-115		
LCS Dup (B111137-BSD1)									
Residue, Non-Filterable	53.0	10.0	mg/L	54.30		97.6	85-115	1.87	20
Duplicate (B111137-DUP1)		**Source: 2111019-04**							
Residue, Non-Filterable	7.00	10.0	mg/L		6.00			15.4	20

OCEAN SYSTEMS LABORATORY, INC.
6194 Estate Frydenhoj, ST. THOMAS, U.S.V.I. 00802-1402
LAB ID: VI000609

CERTIFICATE OF ANALYSIS
Enterococci Report

WWTP Identification: **Vessup WWTP Effluent**	
Date of Sample: **11-08-2021**	Sampler: **Neal Johansen**
Client: Vessup	
Sample Description: **Enterococci Sample Collection**	

Arrival at the Laboratory

Sample Location	Date/Time Taken	Date/Time Received	Date/Time Run	Temp.	Received by
Vessup	**11/08/21 @ 1318**	**11/08/21 @ 1408**	**11/08/21 @ 1547**	**NT**	**GC**
Note: n/a					

RESULTS

	Chlorine at Site	Entero Count /100 mL	Turbidity (NTU)
OSL Enterococci # **8072**	**NT**	**<1**	**N/A**
Method: MF	Dilutions: 100, 10 and 1mL		

Analyst	**GC**

Approval: _____
Gretchen M. Concepcion-Connor

Date: November 18, 2021

Qualifiers: ICP: in the cooling process
MPN: most probable number
MF: Membrane Filtration
J: Judgement (applied calculation)

Methods: Enterococci: EPA Method 1600

TELEPHONE: 714-1911 FAX: 777-2711 E-MAIL: info@oceansystenslab.com

OCEAN SYSTEMS LABORATORY, INC.
6194 Estate Frydenhoj, ST. THOMAS, U.S.V.I. 00802-1402
LAB ID: VI000609

CERTIFICATE OF ANALYSIS
Enterococci Report

WWTP Identification: **Vessup WWTP Effluent**	
Date of Sample: **11-09-2021**	Sampler: **Neal Johansen**
Client: Vessup	
Sample Description: **Enterococci Sample Collection**	

Arrival at the Laboratory

Sample Location	Date/Time Taken	Date/Time Received	Date/Time Run	Temp.	Received by
Vessup	**11/09/21 @ 1348**	**11/09/21 @ 1409**	**11/09/21 @ 1658**	**16.0°C**	**SF**
Note: n/a					

RESULTS

	Chlorine at Site	Entero Count /100 mL	Turbidity (NTU)
OSL Enterococci # **8093**	**NT**	**410**	**N/A**
Method: MF	Dilutions: 100, 10 and 1mL		

Analyst	**GC**

Approval: _____
Gretchen M. Concepcion-Connor

Date: November 18, 2021

Qualifiers: ICP: in the cooling process
MPN: most probable number
MF: Membrane Filtration
J: Judgement (applied calculation)

Methods: Enterococci: EPA Method 1600

TELEPHONE: 714-1911 FAX: 777-2711 E-MAIL: info@oceansystemslab.com

US EPA REGION 2 LABORATORY

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CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Vessup, VI — PROJECT LEADER: Neal Johansen

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 #: VI0020133

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
20211112EPA BOD I	1	A	☑	BOD	Influent (*) 2111019	-01 ☑	0 1 2 3 4 5 6 7 8 9 10	0845	0846	11/12/21
20211112EPA BOD E	2	A	☑	BOD	Effluent (*)	-02 ☑	0 1 2 3 4 5 6 7 8 9 10	0850	0851	11/12/21
20211112EPA TSS I	1	A	☑	TSS	Influent (*)(**)	-03 ☑	0 1 2 3 4 5 6 7 8 9 10	0845	0846	11/12/21
20211112EPA TSS E	1	A	☑	TSS	Effluent	-04 ☑	0 1 2 3 4 5 6 7 8 9 10	0852	0853	11/12/21
20211112EPA PHOS	1	A	☑	Phosphorous		-05 ☑	0 1 2 3 4 5 6 7 8 9 10	0855	0851	11/12/21
			☐				0 1 2 3 4 5 6 7 8 9 10			
			☐			11/15/24	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:
(*) BOD received out of hold time.
(**) TSS Container not rec'd at 11/15/24

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

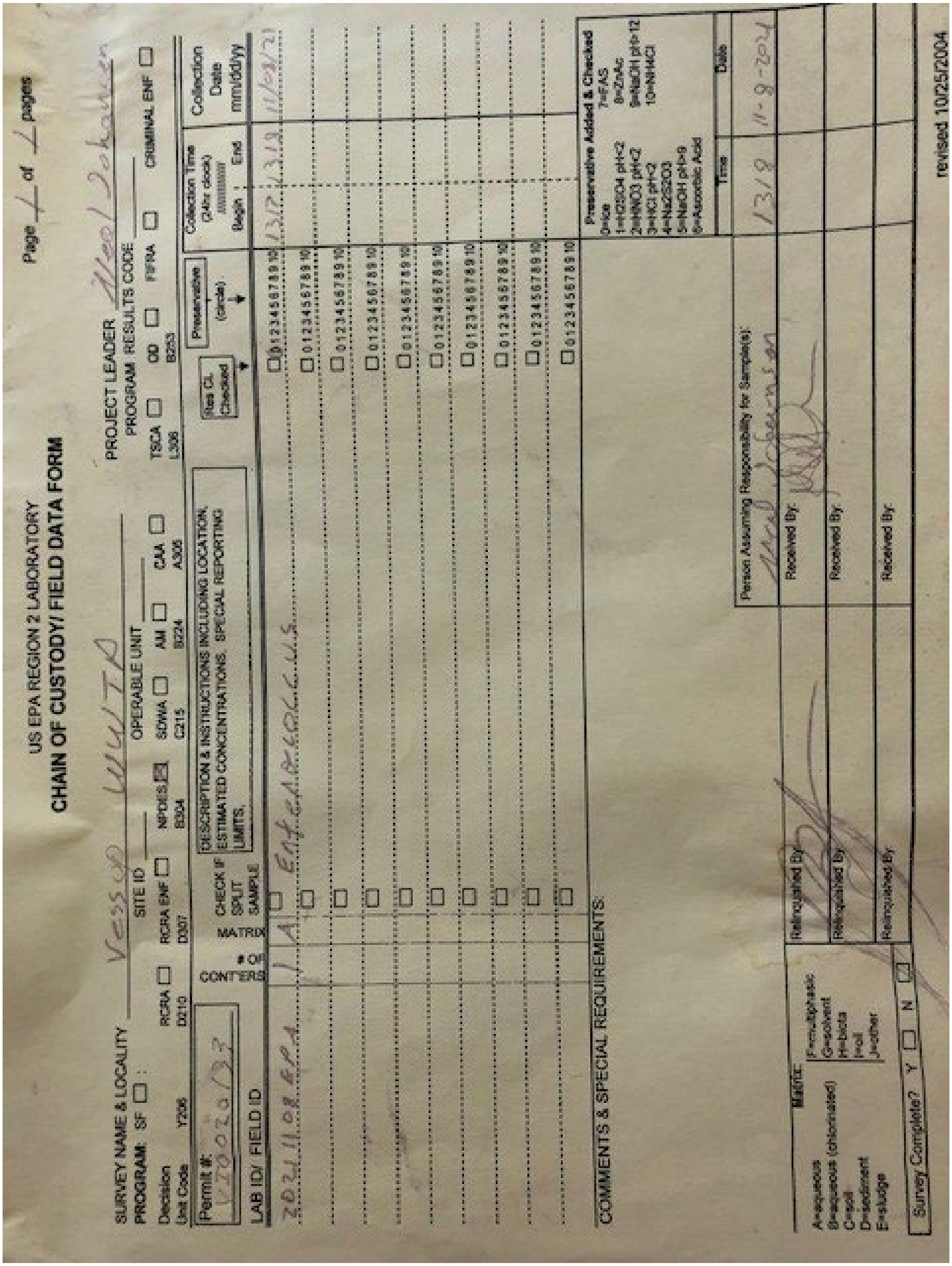
	Time	Date
Person Assuming Responsibility for Sample(s): Neal Johansen	0905	11/12/21
Relinquished By: / Received By:	10:00	11/15/21
Relinquished By: / Received By:		
Relinquished By: / Received By:		

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 = 3.0°C on ice 11/15/24

revised 10/25/2004



US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 1 of 1 pages

SURVEY NAME & LOCALITY Vessup WWTA
PROGRAM: SF ☐ : SITE ID ____ OPERABLE UNIT ____
PROJECT LEADER Neal Johansen
PROGRAM RESULTS CODE ____

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

Permit #: VI0020133

LAB ID/ FIELD ID	# OF CONT'ERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS.	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	End	Collection Date mm/dd/yy
20211108EPA	1	A	☐	Enterococcus	☐	0 1 2 3 4 5 6 7 8 9 10	1317	1318	11/08/21
			☐		☐	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			
			☐		☐	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:

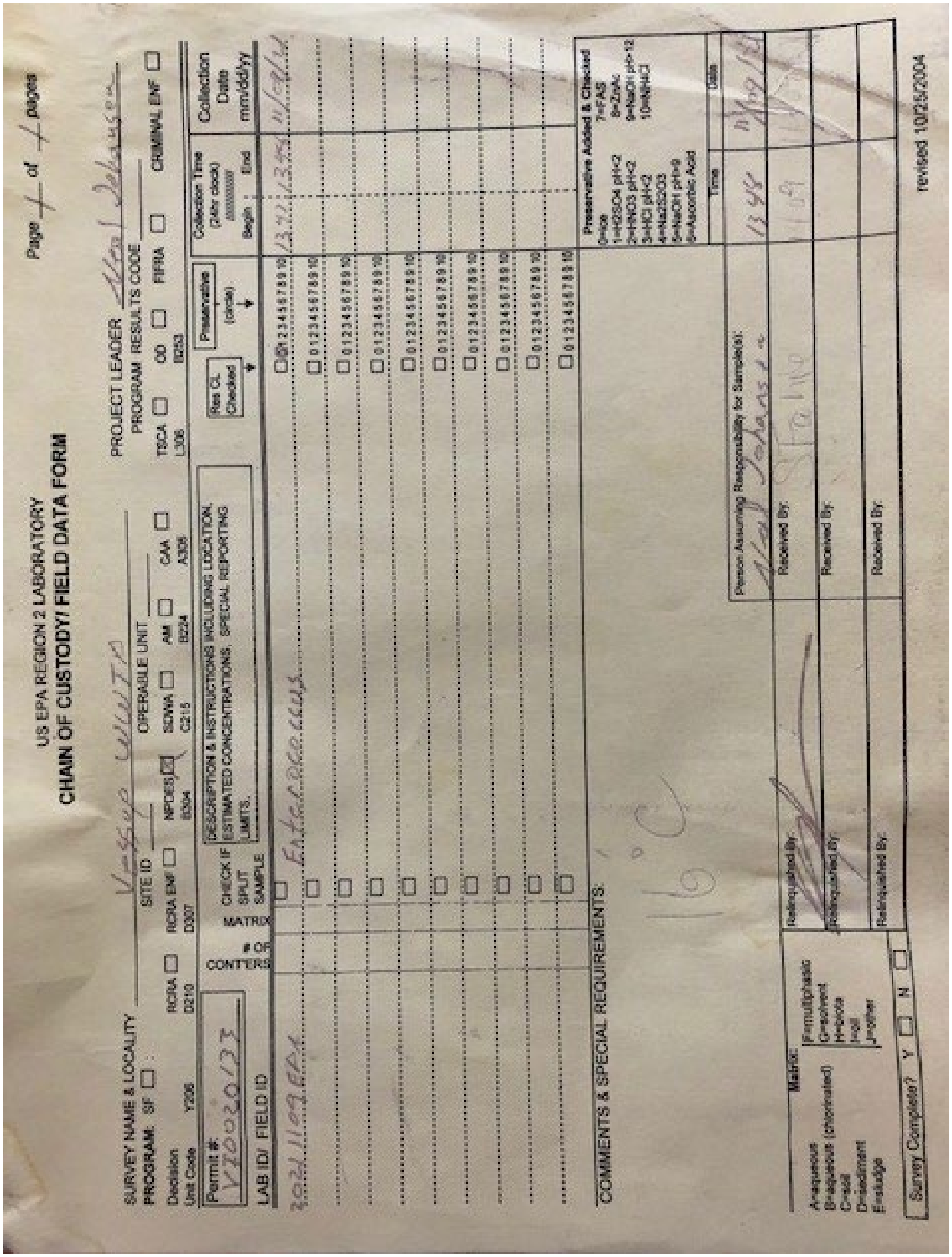
Preservative Added & Checked
0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

		Time	Date
	Person Assuming Responsibility for Sample(s): Neal Johansen	1318	11-8-2021
Relinquished By:	Received By:		
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 ☒

revised 10/25/2004



US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 1 of 1 pages

SURVEY NAME & LOCALITY: Vessup WWTP
PROJECT LEADER: Neal Johansen
SITE ID ____ OPERABLE UNIT ____
PROGRAM RESULTS CODE ____
PROGRAM: SF ☐ :

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

Permit #: VI0020133

LAB ID/ FIELD ID	# OF CONT'RS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS.	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	End	Collection Date mm/dd/yy
20211109EPA1			☐	Enterococcus	☐	0 1 2 3 4 5 6 7 8 9 10	13:42	13:45	11/09/21
			☐		☐	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			
			☐		☐	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: 16°C

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): Neal Johansen	1348	11/09/21
Relinquished By: [signature]	Received By: S Fahie	1409	11/09/21
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 ☐

revised 10/25/2004