Town of Baileyton **Year 2022**
W.W.T.P.
Annual Sludge Report

	Tons of Sluge Hauled	S.O.U.R. Test mg/l
January		
February		
March		
April		
May		0.16
June	1.25	
July		
August	0.13	
September	1.32	
October	34.00	
November		
December		
Total	36.70	0.16
Avg	9.18	0.16

Town of Baileyton W.W.T.P.
6530 Horton Highway
Greeneville, TN 37745
Phone #(423) 234-6911
Fax # (423) 234-5442

January 4, 2023

To; Sandra K. Vance

The Town of Baileyton's sludge sampling schedule for the year 2023 is to collect digester sludge samples in April or May for all the parameters in our Bio Solids Permit. This is for the heavy metals as well as e-coli testing. I will also do a S.O.U.R. Test on the digested sludge. I will also do a S.O.U.R. Test on the digested sludge if we have to haul sludge in the summer and again in October or November when we empty our digesters for the winter months. We try to do the same thing every year.

If you have any further questions please feel free to contact at 423-234-0991.

Sincerely

Danny P. Neely

Danny P. Neely

Town of Baileyton W.W.T.P.
6530 Horton Highway
Greeneville, TN 37745
Phone #(423) 234-6911
Fax # (423) 234-5442

January 4, 2023

To; Whom it May Concern

I certify, under penalty of law that the Class B pathogen requirements in 503.32(b) and vector attraction requirements in 503.33(b)(1) or (b) (3) have been met. This determination has been under my supervision in accordance with the system design to insure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction requirements have been met. I am aware that there are significant penalties for the false certification including the possibility of fines and imprisonment.

W.W.T.P. Operator

Danny P. Neely

Danny P. Neely

I certify under penalty of law that the management practices in CFR 40 Section 503.14 have been met for the site on which the bulk sewage sludge is applied. This determination has been under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for the false certification including the possibility of fines and imprisonment.

W.W.T.P. Operator

Danny P. Neely

Danny P. Neely

Annual Sludge

ANALYTICAL REPORT

May 24, 2022

Town of Baileyton WWTP

Sample Delivery Group: L1491906

Samples Received: 05/11/2022

Project Number:

Description:

Report To: Mr. Danny Neely
6530 Horton Highway
Greeneville, TN 37745

Entire Report Reviewed By: Jennifer Huckaba

Jennifer Huckaba
Project Manager

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

TABLE OF CONTENTS

SAMPLE SUMMARY

SLUDGE L1491906-01 Solid

Collected by: Danny P. Neely | Collected date/time: 05/10/22 13:10 | Received date/time: 05/11/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1864564	1	05/16/22 13:49	05/16/22 14:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1866235	1	05/19/22 09:40	05/19/22 12:17	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg C-2011	WG1861528	1	05/18/22 10:35	05/19/22 16:32	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1867735	1	05/22/22 21:05	05/23/22 03:25	KEG	Mt. Juliet, TN
Mercury by Method 7471A	WG1864874	1	05/17/22 08:26	05/18/22 10:22	MRW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1863470	1	05/14/22 09:04	05/15/22 20:38	ZSA	Mt. Juliet, TN

SLUDGE L1491906-02 Solid

Collected by: Danny P. Neely | Collected date/time: 05/10/22 13:10 | Received date/time: 05/11/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Microbiology by Method EPA 1681	WG1862243	1000	05/11/22 11:25	05/11/22 11:25	HAB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba

Jennifer Huckaba
Project Manager

SLUDGE

Collected date/time: 05/10/22 13:10

SAMPLE RESULTS - 01

L1491906

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
	%				
Total Solids	0.740		1	05/16/2022 14:12	WG1864564

Wet Chemistry by Method 350.1

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis date / time	Batch
	mg/kg	mg/kg	mg/kg	mg/kg				
Ammonia Nitrogen	ND	10.0	ND	1350		1	05/19/2022 12:17	WG1866235

Wet Chemistry by Method 4500NOrg C-2011

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis date / time	Batch
	mg/kg	mg/kg	mg/kg	mg/kg				
Kjeldahl Nitrogen, TKN	528	20.0	71400	2700		1	05/19/2022 16:32	WG1861528

Wet Chemistry by Method 9056A

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis date / time	Batch
	mg/kg	mg/kg	mg/kg	mg/kg				
Nitrate as (N)	11.3	10.0	1530	1350		1	05/23/2022 03:25	WG1867735

Mercury by Method 7471A

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis date / time	Batch
	mg/kg	mg/kg	mg/kg	mg/kg				
Mercury	ND	0.0400	ND	5.41		1	05/18/2022 10:22	WG1864874

Metals (ICP) by Method 6010B

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis date / time	Batch
	mg/kg	mg/kg	mg/kg	mg/kg				
Arsenic	ND	2.00	ND	270		1	05/15/2022 20:38	WG1863470
Cadmium	ND	0.500	ND	67.6		1	05/15/2022 20:38	WG1863470
Copper	ND	2.00	ND	270		1	05/15/2022 20:38	WG1863470
Lead	ND	0.500	ND	67.6		1	05/15/2022 20:38	WG1863470
Molybdenum	ND	0.500	ND	67.6		1	05/15/2022 20:38	WG1863470
Nickel	ND	2.00	ND	270		1	05/15/2022 20:38	WG1863470
Selenium	ND	2.00	ND	270		1	05/15/2022 20:38	WG1863470
Zinc	14.2	5.00	1920	676		1	05/15/2022 20:38	WG1863470

SLUDGE

Collected date/time: 05/10/22 13:10

SAMPLE RESULTS - 02

L1491906

Microbiology by Method EPA 1681

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
	MPN/g				
Fecal Coliform -Geom.Mean	192312.5		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -1	358983.5		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -2	94900.0		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -3	176822.0		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -4	360915.0		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -5	239320.9		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -6	240237.5		1000	05/11/2022 11:25	WG1862243
Fecal Coliform -7	77830.3		1000	05/11/2022 11:25	WG1862243

QUALITY CONTROL SUMMARY

L1491906-01

hod Blank (MB)

R3793061-1 05/16/22 14:12

	MB Result	MB Qualifier	MB MDL	MB RDL
e	%		%	%
olids	0.000			

13449-01 Original Sample (OS) • Duplicate (DUP)

L1493449-01 05/16/22 14:12 • (DUP) R3793061-3 05/16/22 14:12

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	%	%		%		%
olids	25.8	25.9	1	0.271		10

oratory Control Sample (LCS)

R3793061-2 05/16/22 14:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	%	%	%	%	
olids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L1491906-01

nod Blank (MB)

R3793708-1 05/19/22 12:15

	MB Result	MB Qualifier	MB MDL	MB RDL
e	mg/kg		mg/kg	mg/kg
nia Nitrogen	U		7.00	10.0

1928-01 Original Sample (OS) • Duplicate (DUP)

L1491928-01 05/19/22 12:21 • (DUP) R3793708-5 05/19/22 12:23

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	mg/kg	mg/kg		%		%
nia Nitrogen	ND	ND	1	0.000		20

oratory Control Sample (LCS)

R3793708-2 05/19/22 12:16

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	mg/kg	mg/kg	%	%	
nia Nitrogen	500	520	104	90.0-110	

1906-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

L1491906-01 05/19/22 12:17 • (MS) R3793708-3 05/19/22 12:19 • (MSD) R3793708-4 05/19/22 12:20

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
e	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
nia Nitrogen	67600	ND	68200	69600	101	103	1	80.0-120			1.93	20

QUALITY CONTROL SUMMARY

L1491906-01

hod Blank (MB)

R3793949-1 05/19/22 16:23

	MB Result	MB Qualifier	MB MDL	MB RDL
e	mg/kg		mg/kg	mg/kg
n Nitrogen, TKN	U		4.48	20.0

3951-01 Original Sample (OS) • Duplicate (DUP)

1493951-01 05/19/22 16:41 • (DUP) R3793949-3 05/19/22 16:42

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	mg/kg	mg/kg		%		%
n Nitrogen, TKN	421	408	1	3.26		20

3951-08 Original Sample (OS) • Duplicate (DUP)

1493951-08 05/19/22 17:46 • (DUP) R3793949-6 05/19/22 17:47

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	mg/kg	mg/kg		%		%
n Nitrogen, TKN	532	550	1	3.28		20

oratory Control Sample (LCS)

R3793949-2 05/19/22 16:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	mg/kg	mg/kg	%	%	
n Nitrogen, TKN	508	516	102	75.2-121	

3951-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1493951-01 05/19/22 16:41 • (MS) R3793949-4 05/19/22 16:44 • (MSD) R3793949-5 05/19/22 16:45

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
e	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
n Nitrogen, TKN	482	421	432	443	2.10	4.50	1	90.0-110	J6	J6	2.65	20

QUALITY CONTROL SUMMARY

L1491906-01

hod Blank (MB)

R3794820-1 05/22/22 22:57

	MB Result	MB Qualifier	MB MDL	MB RDL
e	mg/kg		mg/kg	mg/kg
as (N)	U		0.557	10.0

1843-03 Original Sample (OS) • Duplicate (DUP)

.1491843-03 05/23/22 02:21 • (DUP) R3794820-3 05/23/22 02:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	mg/kg	mg/kg		%		%
as (N)	ND	ND	5	4.68		15

e Narrative:
Dilution due to matrix.

4351-01 Original Sample (OS) • Duplicate (DUP)

.1494351-01 05/23/22 07:39 • (DUP) R3794820-4 05/23/22 07:55

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
e	mg/kg	mg/kg		%		%
as (N)	ND	ND	1	28.9	P1	15

oratory Control Sample (LCS)

R3794820-2 05/22/22 23:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	mg/kg	mg/kg	%	%	
as (N)	20.0	19.9	99.3	80.0-120	

4351-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

.1494351-01 05/23/22 07:39 • (MS) R3794820-5 05/23/22 08:11 • (MSD) R3794820-6 05/23/22 08:27

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
e	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
as (N)	62.6	ND	68.2	65.3	106	102	1.04	80.0-120			4.31	15

nod Blank (MB)

R3793110-1 05/18/22 10:05

	MB Result	MB Qualifier	MB MDL	MB RDL
e	mg/kg		mg/kg	mg/kg
y	U		0.0180	0.0400

oratory Control Sample (LCS)

R3793110-2 05/18/22 10:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	mg/kg	mg/kg	%	%	
y	0.500	0.451	90.2	80.0-120	

1495-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1491495-02 05/18/22 10:14 • (MS) R3793110-3 05/18/22 10:17 • (MSD) R3793110-4 05/18/22 10:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
e	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
y	0.500	ND	0.470	0.483	94.0	96.7	1	75.0-125			2.84	20

QUALITY CONTROL SUMMARY

L1491906-01

nod Blank (MB)

R3792005-1 05/15/22 19:29

	MB Result	MB Qualifier	MB MDL	MB RDL
e	mg/kg		mg/kg	mg/kg
:	U		0.518	2.00
um	U		0.0471	0.500
r	U		0.400	2.00
	U		0.208	0.500
denum	U		0.109	0.500
	U		0.132	2.00
um	U		0.764	2.00
	U		0.832	5.00

oratory Control Sample (LCS)

R3792005-2 05/15/22 19:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
e	mg/kg	mg/kg	%	%	
:	100	93.7	93.7	80.0-120	
um	100	95.3	95.3	80.0-120	
r	100	95.2	95.2	80.0-120	
	100	95.2	95.2	80.0-120	
denum	100	101	101	80.0-120	
	100	96.1	96.1	80.0-120	
um	100	97.0	97.0	80.0-120	
	100	93.5	93.5	80.0-120	

2251-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

.1492251-03 05/15/22 19:34 • (MS) R3792005-5 05/15/22 19:42 • (MSD) R3792005-6 05/15/22 19:45

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
e	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
:	100	4.80	108	94.8	103	89.9	1	75.0-125			12.8	20
um	100	ND	105	91.3	105	91.2	1	75.0-125			13.8	20
r	100	20.5	127	110	106	89.7	1	75.0-125			14.0	20
	100	11.6	114	100	102	88.4	1	75.0-125			12.7	20
denum	100	1.61	102	89.8	101	88.1	1	75.0-125			13.0	20
	100	14.8	119	104	104	89.6	1	75.0-125			12.8	20
um	100	ND	106	92.6	106	92.6	1	75.0-125			13.9	20
	100	117	152	132	34.7	14.5	1	75.0-125	J6	J6	14.3	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CLIENT: Baileyton, Town of ESC L# **L1491906-02**

DATE ON: 5/11/2022 DATE OFF: 5/12/2022

Data entered into excel spreadsheet by: HB

Plate	ml filtered	
A	0.001	<—Largest Volumn Tested
B	0.0001	**Enter data into areas that are
C	0.00001	in blue font.
D	0.000001	

sample type: **Liquid**

MPN/mL From Table 4 Method 1681

Sample No.	Combination of Positives			MPN/mL	Dilution	MPN Result	Log Values
1	5	2	0	4.93	0.001	358983.47	5.555074448
2	4	0	0	1.3	0.001	94900.00	4.977266212
3	5	0	0	2.4	0.001	176821.95	5.247536187
4	5	2	0	4.93	0.001	360915.02	5.557404953
5	5	1	0	3.29	0.001	239320.89	5.378980612
6	5	1	0	3.29	0.001	240237.53	5.380640853
7	3	1	0	1.07	0.001	77830.33	4.891148846

5.284007444

GEO MEAN 192312.47

$$[FCMPN/g] = \frac{\text{(MPN/1mL) from Table 4}}{\text{(Largest Vol tested) X (\% total solids-expressed as a decimal)}}$$

$$\text{\% Total Solids (expressed as a decimal)} = \frac{\text{Dry wt - Initial wt}}{\text{Wet wt - Initial wt}}$$

	Percent Solids			
Sample #	Initial Weight of Boat	Wet Weight	Dry weight	% Total Solids expressed as a decimal
1	1.2702	10.80183	1.4011	0.01373
2	1.26668	9.1755	1.37502	0.01370
3	1.2855	10.03745	1.40429	0.01357
4	1.28898	10.09516	1.40927	0.01366
5	1.27397	12.40421	1.42698	0.01375
6	1.28799	9.7905	1.40443	0.01369
7	1.27536	13.77331	1.44718	0.01375

Class B Fecal Coliform Analysis by MPN- EPA 1681

[Liquid or Solid]

Client Name: Bailey Town of

ESC Sample #: L149 1906-02

Final pH must be between 7.0-7.5 and must not vary more than 0.2mL of (HCl or NaOH) per 300mL

	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
1	Date/Time: 5-11-22 1130	Date/Time: 5-11-22 1435	Date/Time: 5-13-22 1130	X	0	0	0	Initial pH	7.1
	Temp: 35	Temp: 44.5	Temp: 44.5	X	0	0	0	Final pH	7.1
	Analyst: HB	Analyst: HB	Analyst: HB	X	X	0	0	Method Blank	010
	SAMPLE COLLECTION: 5-10-22 @	Combination of Positive: 5-2-0 @ 0.001		X	0	0	0	Negative Con	0
	131655/131005	MPN/mL from table: 4.93		X	X	0	0	Positive Con	X
								MPN Result	358983.5
2	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	X	0	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	0	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	0	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 4-0-0 @ 0.001		0	0	0	0	Negative Con	0
		MPN/mL from table: 1.3		X	0	0	0	Positive Con	X
								MPN Result	94900.0
3	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	X	0	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	0	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	0	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 5-0-0 @ 0.001		X	0	0	0	Negative Con	0
		MPN/mL from table: 2.4		X	0	0	0	Positive Con	X
								MPN Result	176822.0
4	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	X	X	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	0	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	0	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 5-2-0 @ 0.001		X	0	0	0	Negative Con	0
		MPN/mL from table: 4.93		X	X	0	0	Positive Con	X
								MPN Result	360915.0
5	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	X	X 0	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	X 0	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	X X	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 5-1-0 @ 0.001		X	X 0	0	0	Negative Con	0
		MPN/mL from table: 3.29		X	X 0	0	0	Positive Con	X
								MPN Result	239320.9
6	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	X	X	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	0	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	0	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 5-1-0 @ 0.001		X	0	0	0	Negative Con	0
		MPN/mL from table: 3.29		X	0	0	0	Positive Con	X
								MPN Result	240237.5
7	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x		
	Date/Time:	Date/Time:	Date/Time:	0	0	0	0	Initial pH	7.2
	Temp:	Temp: ✓	Temp: ✓	X	X	0	0	Final pH	7.2
	Analyst:	Analyst:	Analyst:	X	0	0	0	Method Blank	010
	SAMPLE COLLECTION:	Combination of Positive: 3-1-0 @ 0.001		0	0	0	0	Negative Con	0
		MPN/mL from table: 1.07		X	0	0	0	Positive Con	X
								MPN Result	77830.3

X denotes Positive tube
0 denotes Negative tube

RECEIVED
JAN 09 2023
JOHNSON CITY
ENV. FIELD OFFICE

Total Solids Analysis (30g +/-.1g)

Sample	Dish Label	Initial wt (g)	Wet wt (g)	Dry wt (g)	%Tot Solids	Amt used (g)
Sample #1	Bailey-1	1.27020	10.80183	1.40110	0.01373	30.0mL
Sample #2	Bailey-2	1.26608	9.17550	1.37502	0.01370	
Sample #3	Bailey-3	1.28550	10.03745	1.40429	0.01357	
Sample #4	Bailey-4	1.28498	10.09516	1.40927	0.01366	
Sample #5	Bailey-5	1.27397	12.40421	1.42698	0.01375	
Sample #6	Bailey-6	1.28799	9.79050	1.40443	0.01369	
Sample #7	Bailey-7	1.27536	13.77331	1.44718	0.01375	

Media/Reagents Lot #	Lot:	Exp date
A1 medium Lot #:	22C23033	12-31-22
Phosphate Buffer:	ESC49490	11-30-22
NaOH Lot:	—	—
HCl Lot:	—	—
Positive Control: E. coli	051022	5-11-22
Negative Control: K.aerogenes	031422	6-14-22
^(only need for OPR or MS)		
^TSA Slant Lot #:	—	—
^1% LTB Lot #:	—	—

TOWN OF BAILEYTON WWTP
530 HORTON HWY.
GREENEVILLE, TN. 37745

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: MR. DANNY NEELY

Email To: dennyneely550@yahoo.com

Project Description:

City/State Collected:

Please Circle: PT MT CT (ET)

Phone: 423-620-8208

Client Project #

Lab Project # BAILEY02-SLUDGE

SDG # L1491906

Collected by (print): DANNY P. NEELY

Site/Facility ID #

P.O. #

Table # T000

Acctnum: BAILEY02

Collected by (signature): Danny P. Neely

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template: T111405

Prelogin:

PM: JENNIFER HUDKABA

PB:

Shipped Via:

Immediately Cooled on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	FCLS Microbiological	Metals 250ml HDPE No Pres.	Nitrate, NH3, TKN 250ml HDPE No Pres.	TSS Sludge 250 ml HDPE No Pres.							Remarks	Sample # (lab only)
SLUDGE	GRAB	SS	—	5-10-22	1310	3		X	X	X								-01
SLUDGE	GRAB	SS	—	5-10-22	1310	9	X											-02

RECEIVED
JAN 09 2023
JOHNSON CITY
ENV. FIELD OFFICE

*Matrix:
Soil AIR - Air F - Filter
Groundwater B - Bioassay
WasteWater
Drinking Water
Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
___ UPS ___ FedEx Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature) Danny P. Neely	5-10-22	1315	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 0.1°C 2.8 corr

Bottles Received: 12

Date: 5/11/22 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK