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

January 9, 2018

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

Town of Baileyton **Year 2017**
W.W.T.P.
Annual Sludge Report

	Tons of Sluge Hauled	S.O.U.R. Test mg/l
January		
February		
March		
April		
May		0.19
June		
July		
August		
September	15.90	0.10
October		
November		
December		
Total	15.90	0.29
Avg	15.90	0.15

ANALYTICAL REPORT

May 25, 2017

Town of Baileyton WWTP

Sample Delivery Group:	L908934
Samples Received:	05/12/2017
Project Number:	
Description:	

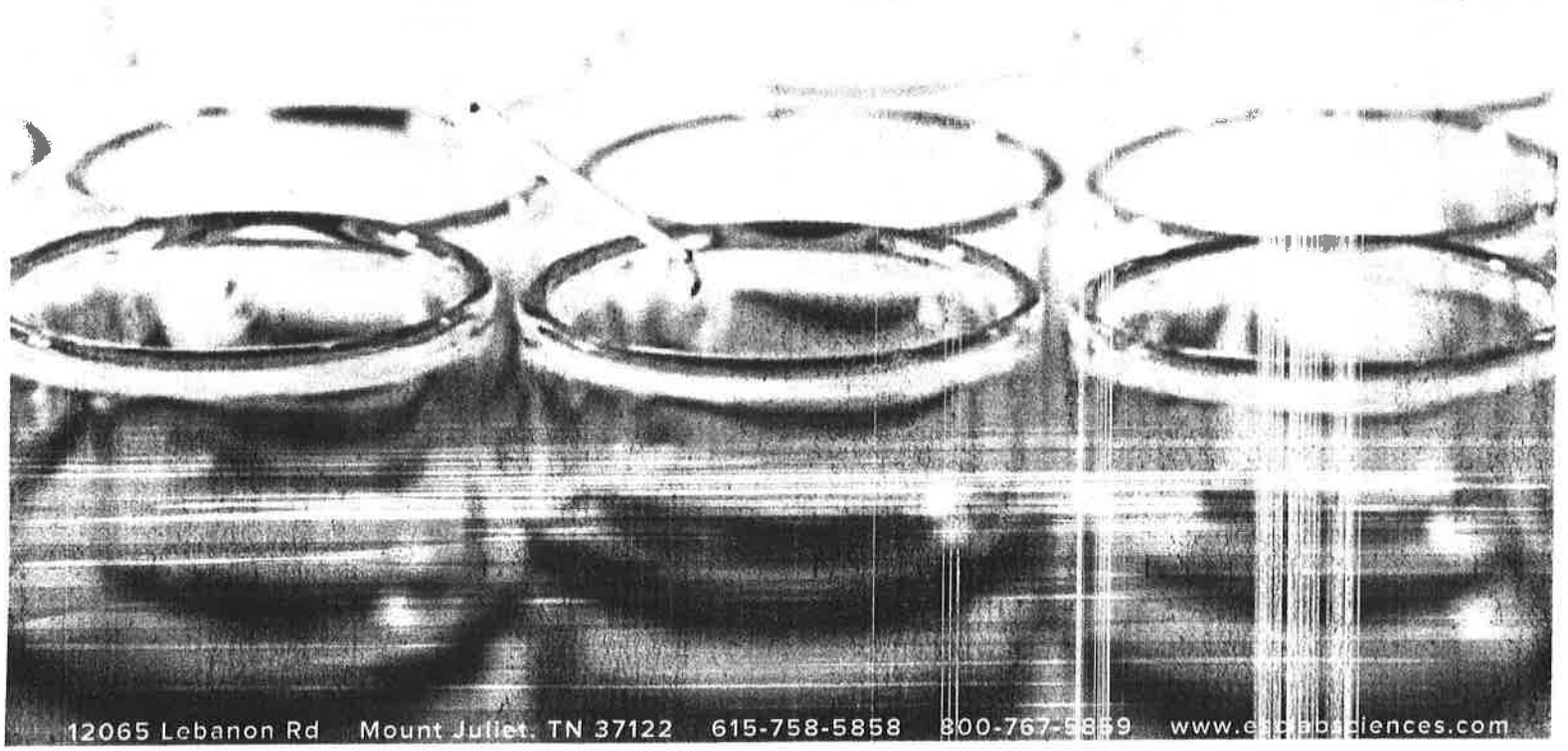
Report To:

Mr. Danny Neely
6530 Horton Highway
Greeneville, TN 37745

Entire Report Reviewed By:

Rodney Shinbaum
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304



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SLUDGE L908934-01 Solid

Collected by: Danny P Neely
Collected date/time: 05/11/17 12:00
Received date/time: 05/12/17 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG980251	1	05/17/17 16:25	05/17/17 16:50	MMF
Wet Chemistry by Method 350.1	WG978740	1	05/12/17 10:01	05/12/17 14:16	JLR
Wet Chemistry by Method 4500NOrg C-2011	WG979361	1	05/15/17 16:22	05/16/17 10:53	JLR
Wet Chemistry by Method 9056A	WG979796	10	05/15/17 15:29	05/16/17 04:40	MDF
Mercury by Method 7471A	WG979282	1	05/12/17 17:16	05/17/17 07:18	EL
Metals (ICP) by Method 6010B	WG980226	1	05/17/17 11:04	05/18/17 00:43	CJE

SLUDGE L908934-02 Solid

Collected by: Danny P Neely
Collected date/time: 05/11/17 12:00
Received date/time: 05/12/17 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Microbiology by Method EPA 1681	WG979861	1000	05/12/17 11:53	05/12/17 11:53	BGE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Rodney Shinbaum
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
	%				
Total Solids	1.41		1	05/17/2017 16:50	WG980251

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	5.00	ND	354		1	05/12/2017 14:16	[illegible]

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	37400	1420	J6	1	05/16/2017 10:53	[illegible]

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)	218	10.0	15500	708		10	05/16/2017 04:40	[illegible]

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	0.0200	ND	1.42		1	05/17/2017 07:18	[illegible]

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	142		1	05/18/2017 00:43	[illegible]
Cadmium	ND	0.500	ND	35.4		1	05/18/2017 00:43	[illegible]
Chromium	ND	1.00	ND	70.8		1	05/18/2017 00:43	[illegible]
Lead	ND	0.500	ND	35.4		1	05/18/2017 00:43	[illegible]
Molybdenum	ND	0.500	ND	35.4		1	05/18/2017 00:43	[illegible]
Nickel	ND	2.00	ND	142		1	05/18/2017 00:43	[illegible]
Selenium	ND	2.00	ND	142		1	05/18/2017 00:43	[illegible]
Zinc	8.85	5.00	627	354		1	05/18/2017 00:43	[illegible]

Microbiology by Method EPA 1681

Analyte	Result MPN/g	Qualifier	Dilution	Analysis date / time	Batch
Fecal Coliform -Geom.Mean	<12702.4		1000	05/12/2017 11:53	WG979861
Fecal Coliform -1	<12701.9		1000	05/12/2017 11:53	WG979861
Fecal Coliform -2	<12821.1		1000	05/12/2017 11:53	WG979861
Fecal Coliform -3	<12814.5		1000	05/12/2017 11:53	WG979861
Fecal Coliform -4	<12656.6		1000	05/12/2017 11:53	WG979861
Fecal Coliform -5	<12478.6		1000	05/12/2017 11:53	WG979861
Fecal Coliform -6	<12722.6		1000	05/12/2017 11:53	WG979861
Fecal Coliform -7	<12724.8		1000	05/12/2017 11:53	WG979861

Method Blank (MB)

(MB) R3219042-1 05/17/17 16:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L908626-01 Original Sample (OS) • Duplicate (DUP)

(OS) L908626-01 05/17/17 16:50 • (DUP) R3219042-4 05/17/17 16:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	1.05	1.01	1	3.28		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3219042-2 05/17/17 16:50 • (LCSD) R3219042-3 05/17/17 16:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	%	%	%	%	%	%			%	%
Total Solids	50.0	50.0	50.0	100	100	85.0-115			0.0480	5

Method Blank (MB)

(MB) R3217654-2 05/12/17 13:57 -

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Ammonia Nitrogen	U		1.57	5.00

L908530-01 Original Sample (OS) • Duplicate (DUP)

(OS) L908530-01 05/12/17 14:24 • (DUP) R3217654-7 05/12/17 14:25

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Ammonia Nitrogen	1400	1390	5	1		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217654-3 05/12/17 13:59 • (LCSD) R3217654-4 05/12/17 14:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Ammonia Nitrogen	500	500	477	100	95	90-110			5	20

L908530-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L908530-02 05/12/17 14:04 • (MS) R3217654-5 05/12/17 14:05 • (MSD) R3217654-6 05/12/17 14:06

Analyte	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
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Ammonia Nitrogen	628	19.3	634	619	98	96	1	80-120			2	20

Method Blank (MB)

(MB) R3218354-1 05/16/17 10:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Kjeldahl Nitrogen, TKN	U		4.48	20.0

L908626-01 Original Sample (OS) • Duplicate (DUP)

(OS) L908626-01 05/16/17 10:51 • (DUP) R3218354-4 05/16/17 10:52

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Kjeldahl Nitrogen, TKN	75700	73400	1	3		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218354-2 05/16/17 10:45 • (LCSD) R3218354-3 05/16/17 10:46

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Kjeldahl Nitrogen, TKN	400	391	400	98	100	90-110			2	20

L908934-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L908934-01 05/16/17 10:53 • (MS) R3218354-5 05/16/17 10:54

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/kg	mg/kg	mg/kg	%		%	
Kjeldahl Nitrogen, TKN	28300	37400	53500	57	1	90-110	J6

Method Blank (MB)

(MB) R3218427-2 05/15/17 23:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Nitrate	U		0.0116	1.00

L909142-02 Original Sample (OS) • Duplicate (DUP)

(OS) L909142-02 05/16/17 06:06 • (DUP) R3218427-7 05/16/17 06:27

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Nitrate	120	103	20	16	J3	15

L909142-11 Original Sample (OS) • Duplicate (DUP)

(OS) L909142-11 05/16/17 17:55 • (DUP) R3218446-1 05/16/17 18:12

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Nitrate	45.0	47.6	1	6		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218427-3 05/15/17 23:22 • (LCSD) R3218427-4 05/15/17 23:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Nitrate	20.0	17.7	19.1	89	96	80-120			8	15

L909142-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L909142-01 05/16/17 05:01 • (MS) R3218427-5 05/16/17 05:23 • (MSD) R3218427-6 05/16/17 05:45

Analyte	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
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Nitrate	50.9	1.99	53.6	53.2	101	101	1	80-120			1	15

Method Blank (MB)

(MB) R3218563-1 05/17/17 06:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	0.00453	J	0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218563-2 05/17/17 06:35 • (LCSD) R3218563-3 05/17/17 06:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.279	0.251	93	84	80-120			11	20

L908867-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L908867-01 05/17/17 06:40 • (MS) R3218563-4 05/17/17 06:43 • (MSD) R3218563-5 05/17/17 06:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.342	0.0154	0.307	0.317	85	88	1	75-125			3	20

Method Blank (MB)

(MB) R3218935-1 05/18/17 00:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Arsenic	U		0.65	2.00
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Lead	U		0.19	0.500
Molybdenum	U		0.16	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218935-2 05/18/17 00:21 • (LCSD) R3218935-3 05/18/17 00:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Arsenic	100	103	110	103	110	80-120			7	20
Cadmium	100	105	111	105	111	80-120			6	20
Chromium	100	106	112	106	112	80-120			6	20
Lead	100	104	111	104	111	80-120			6	20
Molybdenum	100	105	112	105	112	80-120			6	20
Nickel	100	105	112	105	112	80-120			6	20
Selenium	100	104	111	104	111	80-120			6	20
Zinc	100	105	112	105	112	80-120			6	20

L909092-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L909092-01 05/18/17 00:26 • (MS) R3218935-6 05/18/17 00:35 • (MSD) R3218935-7 05/18/17 00:37

Analyte	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
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	113	11.6	129	131	103	105	1	75-125			2	20
Cadmium	113	ND	121	121	106	107	1	75-125			0	20
Chromium	113	841	594	747	0	0	1	75-125	V	J3 V	23	20
Lead	113	33.5	152	169	105	119	1	75-125			10	20
Molybdenum	113	3.32	115	122	99	110	1	75-125			13	20
Nickel	113	30.9	154	168	104	118	1	75-125		J3 J3	22	20
Selenium	113	ND	117	117	103	103	1	75-125			0	20
Zinc	113	88.1	152	211	91	109	1	75-125			10	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective data of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

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

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold "-" Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

Town of Baileyton WWTP

6530 Horton Highway
Greeneville, TN 37745

Billing Information:
Barbara Tilson
6530 Horton Highway
Greeneville, TN 37745

Pres Chk

Report to: Mr. Danny Neely

Email To: dannyneely550@yahoo.com

Project Description:

City/State Collected:

Phone: 423-620-8208
Fax:

Client Project #

Lab Project # BAILEY02-SLUDGE

Collected by (print): Danny P. Neely

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	FCLS Microbiological	Metals 250mlHDPE-NoPres	NITRATE, NH3, TKN 250mlHDPE-NoPres	TSSLUDGE 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SLUDGE	Grab	SS	N/A	5/11/17	1200	3		X	X	X		01
SLUDGE	↓	SS	↓	5/11/17	1200	9	X					02

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 90897A

C195

Template: T111405
Prelogin: P596430
TSR: 650 - Linda Cashman
PB: 4-6-17 CM

Shipped Via: FedEx Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - 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: ___ ___
Preservation Correct/Checked: ___ ___

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Danny P. Neely	5/11/17	1205	
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: 17 °C Bottles Received: 12

Date: 5-12-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

CLIENT: **Town of Baileyton** ESC L# **L908936-02**

DATE ON: 5/12/2017 DATE OFF: 5/13/2017

Data entered into excel spreadsheet by: **BE**

Sample No.		Plate	ml filtered
1		A	0.001
2		B	0.0001
3		C	0.00001
4		D	0.000001
5			
6			
7			

<---Largest Volumn Tested

**Enter data into areas that are in blue font.

sample type: Liquid

From Table 4 Method 1681

Sample No.	Combination of Positives			MPN/mL	Dilution	MPN Result	Log Values
1	0	0	0	< 0.1803	0.001	<12701.92	4.103869334
2	0	0	0	< 0.1803	0.001	<12821.08	4.107924612
3	0	0	0	< 0.1803	0.001	<12814.52	4.107702385
4	0	0	0	< 0.1803	0.001	<12656.80	4.102317212
5	0	0	0	< 0.1803	0.001	<12478.82	4.096166465
6	0	0	0	< 0.1803	0.001	<12722.64	4.104577349
7	0	0	0	< 0.1803	0.001	<12724.84	4.104652272

4.10388709

GEO MEAN <12702.44

$$[FCMPN/g] = \frac{(MPN/1mL) \times 100}{(Largest\ Vol\ tested) \times (\%\ total\ solids)}$$

$$\%\ Total\ Solids = \frac{Dry\ wt - Initial\ wt}{Wet\ wt - Initial\ wt} \times 100$$

	Percent Solids			
Sample #	Initial Weight of	Wet Weight	Dry weight	% Total Solids
1	1.30746	6.62564	1.38295	1.42
2	1.30982	6.54065	1.38338	1.41
3	1.28137	6.86418	1.35992	1.41
4	1.29439	6.79717	1.37278	1.42
5	1.29327	6.628	1.37035	1.44
6	1.28853	6.95621	1.36885	1.42
7	1.30921	6.85436	1.38778	1.42

Class B Fecal Coliform Analysis by MPN- EPA 1681

(Liquid or Solid)

Client Name: Town of Baileyton **ESC Sample #:** L908934-02

Final pH must be between 7.0-7.5 and must not exceed more than .5mL of HCl or NaOH per 1mL

1	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.2	1N NaOH .3mL
	Date/Time: 5-12 @ 1153	Date/Time: 5-12-17 @ 1447	Date/Time: 5-13-17 11:52					Final pH	7.1	
	Temp: 35	Temp: 44.5	Temp: 44.5					Method Blank	0	
	Analyst: BE	Analyst: BE	Analyst: LG					Negative Con	0	
	SAMPLE COLLECTION: 5-11-17 @ 1200	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,701.9	
2	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.5	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12821.1	
3	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.1	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,814.5	
4	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.0	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,650.6	
5	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.1	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,478.6	
6	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.2	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,722.6	
7	Set up 35 deg	Move to 44.5 deg	Test end info	1,000x	10,000x	100,000x	1,000,000x	Initial pH	5.5	1N NaOH .3mL
	Date/Time:	Date/Time:	Date/Time:					Final pH	7.2	
	Temp:	Temp:	Temp:					Method Blank	0	
	Analyst:	Analyst:	Analyst:					Negative Con	0	
	SAMPLE COLLECTION:	Combination of Positive:	0-0-0 @ .001	0	0	0	0	Positive Con	X	
		MPN/mL from table:	<0.1803	0	0	0	0	MPN Result	<12,724.8	

X denotes Positive tube

O denotes Negative tube

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

Sample	Dish Label	Initial wt	Wet wt	Dry wt	%Tot Solids	Amt used (g)
Sample #1	Bail 1	1.30746	6.162564	1.382215	142	NA
Sample #2	Bail 2	1.30982	6.541765	1.38338	141	↓
Sample #3	Bail 3	1.28137	6.8[illegible]415	1.35912	141	
Sample #4	Bail 4	1.29439	6.79717	1.37373	142	
Sample #5	Bail 5	1.29327	6.628CO	1.370355	1.44	
Sample #6	Bail 6	1.28853	6.95621	1.36950	142	
Sample #7	Bail 7	1.30921	6.85436	1.38775	142	↓

^(only need for OPR or MS)

Media/Reagents Lot #		Exp date
^TSA Slant Lot #:	NA	NA
^1% LTB Lot #:	↓	↓
A1 medium Lot #:	35312	3-31-18
Phosphate Buffer:	35054	9-30-18
Positive Control: *E.coli*		
Negative Control: *E.aerogenes*		
NaOH Lot: 1N	34415	6-10-18
HCl Lot:	NA	NA