

GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Fax (205) 699-3882

Page 1 of 10

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 001
Sampler : DL
Sample ID: LC-MP-1

Sample Date: 03/02/2023
Sample Time: 11:04

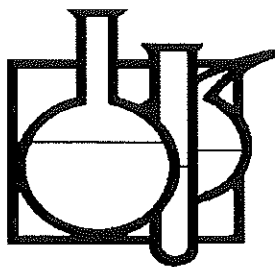
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.85	SU	JF	03/02/2023	11:04	150.1	
Nitrogen, Ammonia	0.2	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	16.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	149.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	51.3	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	5.11	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	3.65	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	270.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	21.7	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 002
Sampler : JF
Sample ID: LC-SS6

Sample Date: 03/02/2023
Sample Time: 11:50

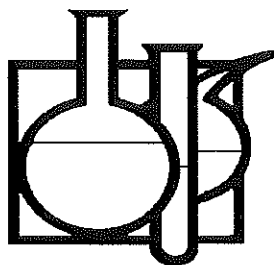
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.99	SU	JF	03/02/2023	11:50	150.1	
Nitrogen, Ammonia	<0.1	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	46.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	40.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	12.8	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	2.00	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	1.87	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	80.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	53.0	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
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5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 003
Sampler : JF
Sample ID: DC-SS4

Sample Date: 03/02/2023
Sample Time: 10:20

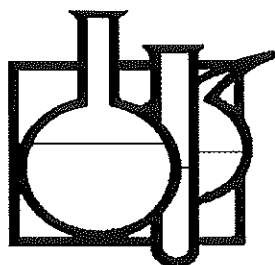
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	8.23	SU	JF	03/02/2023	10:20	150.1	
Nitrogen, Ammonia	0.2	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	<10.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	33.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	12.1	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	<1.0	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	60.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	29.0	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 004
Sampler : JF
Sample ID: DC-SS3

Sample Date: 03/02/2023
Sample Time: 10:20

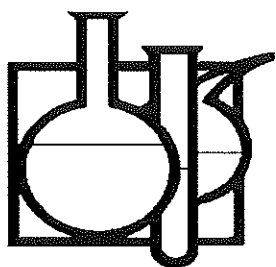
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	8.56	SU	JF	03/02/2023	10:20	150.1	
Nitrogen, Ammonia	0.2	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	18.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	51.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	17.6	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	1.78	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	2.15	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	80.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	307.	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
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P.O. Box 190
Leeds, Alabama 35094

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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 005
Sampler : JF
Sample ID: LC-MP3

Sample Date: 03/02/2023
Sample Time: 11:04

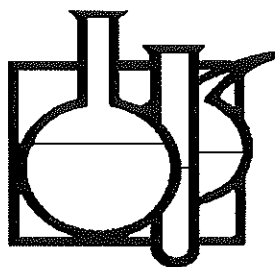
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.77	SU	JF	03/02/2023	11:04	150.1	
Nitrogen, Ammonia	<0.1	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	28.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	15.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	4.32	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	1.00	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	1.00	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	80.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	16.3	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
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1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 006
Sampler : JF
Sample ID: LC-MP2

Sample Date: 03/02/2023
Sample Time: 11:04

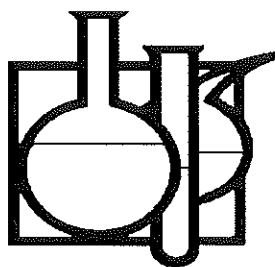
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.71	SU	JF	03/02/2023	11:04	150.1	
Nitrogen, Ammonia	<0.1	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	151.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	39.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	12.2	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	2.04	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	4.46	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	210.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	28.8	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
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P.O. Box 190
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 007
Sampler : JF
Sample ID: LC-SS7

Sample Date: 03/02/2023
Sample Time: 11:50

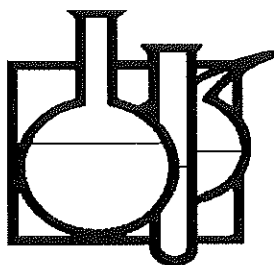
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.29	SU	JF	03/02/2023	11:50	150.1	
Nitrogen, Ammonia	<0.1	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Color, APHA	53.	PCU	BG	03/03/2023	10:00	110.2	
Hardness, Total	127.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	43.8	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	4.19	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	1.59	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	140.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	73.5	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
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Telephone (205) 699-6647
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 008
Sampler : JF
Sample ID: LC-SS9

Sample Date: 03/02/2023
Sample Time: 12:25

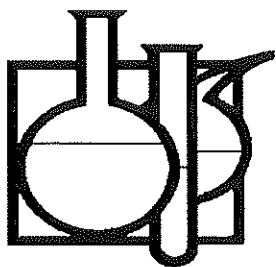
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.86	SU	JH	03/02/2023	12:25	150.1	
Color, APHA	60.	PCU	BG	03/03/2023	10:00	110.2	
Nitrogen, Ammonia	0.4	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Calcium	27.4	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	2.18	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	3.78	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Hardness, Total	77.	mg/L	DRH	03/08/2023	12:00	200.7	
Specific Conductance	110.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	28.9	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 009
Sampler : JF
Sample ID: LC-SS10

Sample Date: 03/02/2023
Sample Time: 12:25

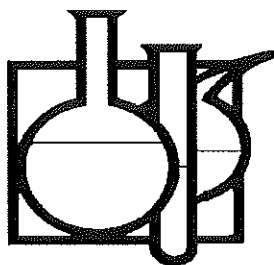
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	6.91	SU	JF	03/02/2023	12:25	150.1	
Color, APHA	87.	PCU	BG	03/03/2023	10:00	SM2120B	
Nitrogen, Ammonia	0.3	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Calcium	22.9	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	1.45	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	1.82	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Hardness, Total	63.	mg/L	DRH	03/08/2023	12:00	200.7	
Specific Conductance	180.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	52.7	NTU	BG	03/03/2023	13:00	180.1	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 03/14/2023
Receive Date: 03/02/2023
Receive Time: 16:30

Control No : 2303-00062 Sample # 010
Sampler : JF
Sample ID: Bucees

Sample Date: 03/02/2023
Sample Time: 15:05

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.31	SU	JF	03/02/2023	15:05	4500-H	
Color, APHA	53.	PCU	BG	03/03/2023	10:00	SM2120B	
Nitrogen, Ammonia	0.2	mg/L	CAC	03/07/2023	12:30	350.2	(1)
Hardness, Total	101.	mg/L	DRH	03/08/2023	12:00	200.7	
Calcium	24.4	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Magnesium	9.75	mg/L	DRH	03/08/2023	12:00	200.7	(1)
Potassium	1.81	mg/L	DRH	03/13/2023	12:00	200.7	(1)
Specific Conductance	180.	umhos	MJN	03/06/2023	13:00	SM2510B	
Turbidity, Nephelometric	30.1	NTU	BG	03/03/2023	13:00	180.1	(1)

Approved By: 

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
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Chain of Custody Record/ Analysis Report

(205) 699-3882 Fax
www.gsilib.com



Client:	Mr. Brad Watson						Phone:							
Company:	City of Leeds						Fax:							
Address:	1040 Park Drive						P.O.#:							
	Leeds, AL 35094						Project:	2023 1ST Semester Stormwater- Wet						

Sample ID	Sample Description	Sample Date	Sample Time	Sample Bottle			Sample Preservative					Analysis Requested								
				Comp.*	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other **							
	LC-MPI	2 Nov 23	1104																	
							X													
							X													
							X													
							X													
							X													
	LC-SSK	2 Nov 23	1150																	
							X													
							X													
							X													
Sampled by:	John Foston						Relinquished by:		Date:		Time:		Date:		Time:		Date:		Time:	
Received by:	John Foston						Relinquished by:		Date:		Time:		Date:		Time:		Date:		Time:	
Received by:	John Foston						Relinquished by:		Date:		Time:		Date:		Time:		Date:		Time:	
Was Shipped Container intact when received? Yes ☒ No ☐																				
Were all samples properly preserved? Yes ☒ No ☐ Initials <u>JF</u> Sample temp. <u>6</u> °C																				
Comments: Other = See Above for Sample Preservatives, Field Measurements																				

PH Meter Calibration Info		Buffer Traceability #	Exp. Date	QC Sample	Technician Information	
Buffer #:	4	INRE 2205-2554	28 Feb 24	Traceability #	Calibrated by:	John Foston
Buffer #:		INPE 2110-363	5 Apr 23	pH: 6.02	Calibration Time:	08:30
Buffer #:		INPE 2110-361	9 Apr 23	Turb:	Calibration Date:	2 Mar 23
Turbidity Meter Calibration Info		Standard Traceability #	Exp. Date	Calibration Temp: 71.0 °C		
Standard #						
Standard #						
Standard #						
Standard #						

Notes:



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Project: 2023 1ST Semester Stormwater-Wet

Project: 2023 1ST Semester Stormwater-Wet

Project:	2023 101 Connect:	Analysis Requested
conservative		

Relinquished by: Soni Fatima Date: 2 Mar 23 Time: 1630

PRINT Date: _____ Time: _____
 Received by: _____ Relinquished by: _____
 Date: _____ Time: _____

Received by: _____ Date: 2 Mar 23 Time: 4:30

Was Shipped Container intact when received?

Yes ☒ No ☐ Initials Y Date 11/06

Seals intact: YES

Was employee terminated?	Yes	No	Initials
1		☒	

Sample temp: 4

Were all samples properly preserved: Yes

Field Measurements

Other = See Above for Sample Preservatives, Field Measurements	Technician Information
Comments:	CC-00000000

PH Meter Calibration Info	Buffer Traceability #	Exp. Date	QC sample	QC sample	Calibrated by:

[illegible]

Parameter:		
Difference #:		
pH:		
Calibration Date:		
Calibration Time:		

[illegible]

Build #	Standard Traceability #	Exp. Date	Calibration Temp:
Build #	Standard Traceability #	Exp. Date	Calibration Temp:

Turbidity Meter Calibration		Standard Recovery	
C	24		

[illegible][illegible][illegible]

Standard #	

100

Chain of Custody Record/ Analysis Report

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[illegible]



email: qsi@qsilab.com

(205) 699-3882 Fax
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Client:	Mr. Brad Watson	Phone:											
Company:	City of Leeds	Fax:											
Address:	1040 Park Drive Leeds, AL 35094	P.O.#:											
Project: 2023 1ST Semester Stormwater- Wet													
Sample ID	Sample Description	Sample Date	Sample Time	Sample Preservative						Analysis Requested			
				Comp.*	Bottle	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other**		
	LC 557	2 Mar 23	1150	X	Glass	Plastic							
				X		X							
				X		X							
				X		X							
	LC 559	2 Mar 23	1125										
				X		X							
				X		X							
				X		X							
				Relinquished by: John Pickett						Date: 2 Mar 23	Time: 1630		
Sampled by:	Jean Faison	Date:		SIGN	Time:	Relinquished by:	Date:	Time:					
Received by:		Date:			Time:	Relinquished by:	Date:	Time:					
Received by:	Jean Faison	Date:	3/2/23	No	Initials	Seals intact?	Yes	No					
Was Shipped Container intact when received?	Yes	No	Initials	b		Sample temp.	6 °C						
Were all samples properly preserved?	Yes	No	Initials	b									
Comments:	Other = See Above for Sample Preservatives, Field Measurements												
PH Meter Calibration Info		Buffer Traceability #	Exp. Date	QC Sample		Technician Information							
Buffer #:				Traceability #		Calibrated by:							
Buffer #:				pH:		Calibration Time:							
Buffer #:				Turb:		Calibration Date:							
Standard #				Standard Traceability #		Calibration Temp:							
Standard #													
Standard #													
Standard #													

Notes:



1108 Ashville Road, P.O. Box 190
Leeds, Alabama 35094
(205) 699-6647
email: gsi@qsilab.com

(205) 699-3882 Fax
www.gsilab.com

[illegible]

Other = See Above for Sample Preservatives, Field Measurements				QC Sample	Technician Information
PH Meter Calibration Info	Buffer Traceability #	Exp. Date		Traceability #	Calibrated by:
Buffer #:				ph:	Calibration Time:
Buffer #:				Turb:	Calibration Date:
Buffer #:					Calibration Temp:
Turbidity Meter Calibration Info	Standard Traceability #	Exp. Date			
Standard #					
Standard #					
Standard #					
Standard #					
Notes:					



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