

GUARDIAN SYSTEMS, INC.

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

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 1 of 9

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

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 001
Sampler : DL
Sample ID: LC-MP-3

Sample Date: 12/21/2017
Sample Time: 16:15

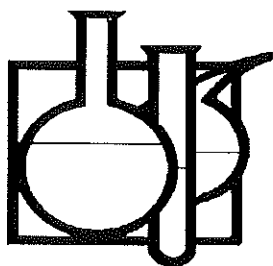
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.65	SU	DL	12/21/2017	16:15	150.1	(1)
Turbidity, Nephelometric	2.32	NTU	DL	12/21/2017	16:15	180.1	
Conductance, Sp. (field)	325	umhos	DL	12/21/2017	16:15	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	18.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	180.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	62.4	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	5.90	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	2.76	mg/L	DRH	01/03/2018	11:00	200.7	(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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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 002
Sampler : DL
Sample ID: LC-MP-2

Sample Date: 12/21/2017
Sample Time: 16:20

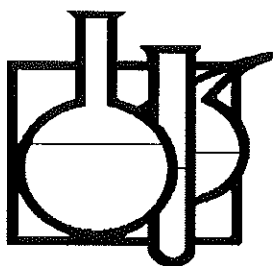
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.62	SU	DL	12/21/2017	16:20	150.1	(1)
Turbidity, Nephelometric	2.52	NTU	DL	12/21/2017	16:20	180.1	
Conductance, Sp. (field)	325	umhos	DL	12/21/2017	16:20	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	13.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	175.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	60.3	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	5.86	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	2.79	mg/L	DRH	01/03/2018	11:00	200.7	(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
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 003
Sampler : DL
Sample ID: LC-MP-1

Sample Date: 12/21/2017
Sample Time: 16:30

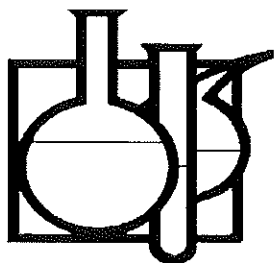
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.75	SU	DL	12/21/2017	16:30	150.1	(1)
Turbidity, Nephelometric	1.00	NTU	DL	12/21/2017	16:30	180.1	
Conductance, Sp. (field)	330	umhos	DL	12/21/2017	16:30	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	10.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	184.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	64.5	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	5.69	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	2.17	mg/L	DRH	01/03/2018	11:00	200.7	(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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Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 004
Sampler : DL
Sample ID: LC-SS-6

Sample Date: 12/21/2017
Sample Time: 16:35

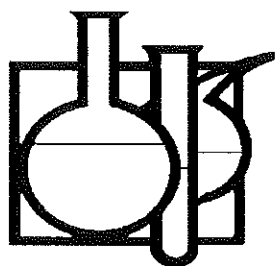
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.58	SU	DL	12/21/2017	16:35	150.1	(1)
Turbidity, Nephelometric	0.85	NTU	DL	12/21/2017	16:35	180.1	
Conductance, Sp. (field)	300	umhos	DL	12/21/2017	16:35	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	<10.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	189.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	64.4	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	6.76	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	1.97	mg/L	DRH	01/03/2018	11:00	200.7	(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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City of Leeds
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 005
Sampler : DL
Sample ID: LC-SS-7

Sample Date: 12/21/2017
Sample Time: 16:40

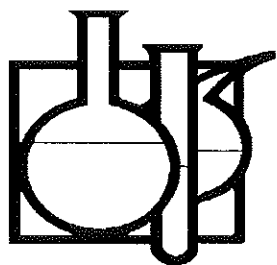
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.76	SU	DL	12/21/2017	16:40	150.1	(1)
Turbidity, Nephelometric	0.88	NTU	DL	12/21/2017	16:40	180.1	
Conductance, Sp. (field)	300	umhos	DL	12/21/2017	16:40	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	<10.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	193.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	65.5	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	7.07	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	2.20	mg/L	DRH	01/03/2018	11:00	200.7	(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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4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 006
Sampler : DL
Sample ID: LC-SS-9

Sample Date: 12/21/2017
Sample Time: 16:43

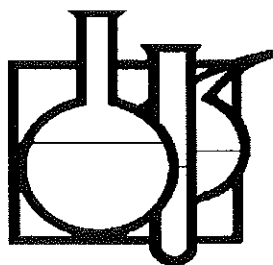
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.88	SU	DL	12/21/2017	16:43	150.1	(1)
Turbidity, Nephelometric	1.65	NTU	DL	12/21/2017	16:43	180.1	
Conductance, Sp. (field)	305	umhos	DL	12/21/2017	16:43	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	<10.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	195.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	65.4	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	7.60	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	1.79	mg/L	DRH	01/03/2018	11:00	200.7	(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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Page 7 of 9

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

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 007
Sampler : DL
Sample ID: LC-SS-10

Sample Date: 12/21/2017
Sample Time: 16:46

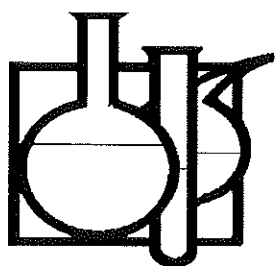
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.83	SU	DL	12/21/2017	16:46	150.1	(1)
Turbidity, Nephelometric	1.85	NTU	DL	12/21/2017	16:46	180.1	
Conductance, Sp. (field)	310	umhos	DL	12/21/2017	16:46	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Color, APHA	<10.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Hardness, Total	210.	mg/L	DRH	01/03/2018	11:00	200.7	
Calcium	71.2	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	7.78	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Potassium	2.01	mg/L	DRH	01/03/2018	11:00	200.7	(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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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 008
Sampler : DL
Sample ID: DC-SS-3

Sample Date: 12/21/2017
Sample Time: 16:55

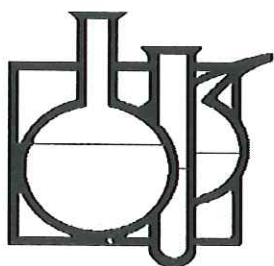
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.75	SU	DL	12/21/2017	16:55	150.1	(1)
Specific Conductance	280	umhos	DL	12/21/2017	16:55	120.1	(1)
Turbidity, Nephelometric	2.51	NTU	DL	12/21/2017	16:55	180.1	
Color, APHA	16.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Calcium	28.5	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	5.03	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Hardness, Total	92.	mg/L	DRH	01/03/2018	11:00	200.7	
Potassium	1.62	mg/L	DRH	01/03/2018	11:00	200.7	(1)

This Certificate is Continued On Next Page.

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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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Page 9 of 9

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

Report Date: 01/05/2018
Receive Date: 12/22/2017
Receive Time: 8:00

Control No : 1712-00459 Sample # 009
Sampler : DL
Sample ID: DC-SS-4

Sample Date: 12/21/2017
Sample Time: 17:00

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.72	SU	DL	12/21/2017	17:00	150.1	(1)
Specific Conductance	285	umhos	DL	12/21/2017	17:00	120.1	(1)
Turbidity, Nephelometric	2.42	NTU	DL	12/21/2017	17:00	180.1	
Color, APHA	19.	PCU	CFS	12/29/2017	9:20	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/04/2018	13:38	350.2	(1)
Calcium	29.2	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Magnesium	4.98	mg/L	DRH	01/03/2018	11:00	200.7	(1)
Hardness, Total	93.	mg/L	DRH	01/03/2018	11:00	200.7	
Potassium	1.34	mg/L	DRH	01/03/2018	11:00	200.7	(1)

Approved By: _____

Sandra Lee Moore
TMB

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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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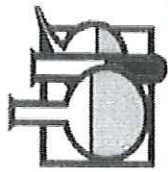
Client: Mr. Brad Watson		Phone:	
Company: City of Leeds		Fax:	
Address:		P.O.#:	
		Project:	

Sample ID	Sample Date	Sample Time	Sample				Bottle				Sample Preservative				Analysis Requested					
			Comp.*	Grab	Glass	Plastic	NaOH	HNO ₃	H ₂ SO ₄	NA ₂ S ₂ O ₃	Cool 4°C	Other **	Field pH	Field Conductivity	Field Turbidity	Color, APHA	Ammonia	Hardness, Ca, Mg		
LC-MP-1	12/21	1630															7.75			
																	330	us		
																	1.00	NTU		
						x	x	x	x					x						
						x	x	x	x					x						
LC-S5-6		1635															7.58			
																	300	us		
																	0.85	NTU		
						x	x	x	x					x						
						x	x	x	x					x						
						x	x	x	x					x						

Sampled by: D. V. R. Lytle Relinquished by: Vandell Date: 22 Dec 17 Time: 0800
 Received by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____
 Received for Laboratory by: Joni Bynum Date: 22 Dec 17 Time: 800
 Was Shipped Container intact when received? Yes / No / Seals intact? Yes US No /
 Were all samples properly preserved? Yes / No / Initials lb Sample temp. 39 °C
 Comments: _____

Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

* For composite samples include start and stop date and time in comments section **Write in preservative used in comments



Client: Mr. Brad Watson						Phone:											
Company: City of Leeds						Fax:											
Address:						P.O.#:											
						Project:											
Sample ID	Sample Date	Sample Time	Sample				Preservative				Analysis Requested						
			Comp.*	Grab	Glass	Bottle	NaOH	HNO ₃	H ₂ SO ₄	NA ₂ S ₂ O ₃	Cool 4°C	Other **					
LC-SS-7	12/21	1640															
						x	x										
						x	x										
						x	x										
LC-SS-9	12/21	1643															
						x	x										
						x	x										
						x	x										
Sampled by: De muck Lyong						Relinquished by: [Signature]						Date: 22 Dec 17 Time: 0800					
Received by:						Relinquished by:						Date: Time:					
Received by:						Relinquished by:						Date: Time:					
Received for Laboratory by: [Signature]						Date: 22 Dec 17 Time: 0800											
Was Shipped Container intact when received? Yes No Initials						Seals intact? Yes No Initials											
Were all samples properly preserved? Yes No Initials						Sample temp. 39°C											
Comments:																	

Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

* For composite samples include start and stop date and time in comments section **Write in preservative used in comments



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email: gsi@gsilab.com

email: gsi@gsilab.com

Client: Mr. Brad Watson

Company: City of Leeds

Address:

Phone:

Fax:

P.O.#:

Project:

Sample ID	Sample Date	Sample Time	Sample Bottle				Sample Preservative						Analysis Requested					
			Comp.*	Grab	Glass	Plastic	NaOH	HNO ₃	H ₂ SO ₄	Na ₂ S ₂ O ₃	Cool 4°C	Other **						
	LC-SS-10	12/21	1646											Field pH	7.83			
														Field Conductivity	310	NS		
														Field Turbidity	1.85	NTU		
							x	x	x				x	Color, APHA				
							x	x	x				x	Ammonia				
							x	x	x				x	Hardness, Ca, Mg				
	DC-SS-3	12/21	1655											Field pH	7.75			
														Field Conductivity	280	NS		
														Field Turbidity	2.51	NTU		
							x	x	x				x	Color, APHA				
							x	x	x				x	Ammonia				
							x	x	x				x	Hardness, Ca, Mg				

Sampled by: Denise Lyons Relinquished by: Denise Lyons Date: 22 Dec 17 Time: 1800

PRINT SIGN

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by:	Date:	Time:	Relinquished by:	Date:	Time:
--------------	-------	-------	------------------	-------	-------

Received by laboratory	Date:	Time:
Received by:	Date:	Time:

	Date:	No.	Vac	Shipped Container in stock when received?	No.	Scale in stock?	No.
	Date:	No.	Vac	Shipped Container in stock when received?	No.	Scale in stock?	No.

Seals intact?	Initials	Seals intact?	Yes	No
yes	✓	yes	✓	✓
no	✓	no	✓	✓

Were all samples properly preserved?	Yes	No	Initials	Sample temp. <u>37</u> °C
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Comments:

Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

* For composite samples include start and stop date and time in comments section ***Write in preservative used in comments



Chain of Custody Record/ Analysis Report

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Leeds, Alabama 35094
(205) 699-6647
email: gsi@gsilab.com

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

Client: Mr. Brad Watson						Phone:									
Company: City of Leeds						Fax:									
Address:						P.O.#:									
						Project:									
Sample ID	Sample Date	Sample Time	Sample Bottle				Sample Preservative				Analysis Requested				
			Comp.*	Grab	Glass	Plastic	NaOH	HNO ₃	H ₂ SO ₄	Na ₂ S ₂ O ₃	Cool 4°C	Other **			
DC-55-4	12/21	1700													
							x							Field pH	7.72
							x							Field Conductivity	285 uS
							x							Field Turbidity	2.42 NTU
							x							Color, APHA	
							x							Ammonia	
							x							Hardness, Ca, Mg	
														Field pH	
														Field Conductivity	
														Field Turbidity	
							x							Color, APHA	
							x							Ammonia	
							x							Hardness, Ca, Mg	
Sampled by: Denise R Lytz						Relinquished by: [Signature]						Date: 22 Dec 17 Time: 0800			
Received by: [Signature]						Relinquished by: [Signature]						Date: [Blank] Time: [Blank]			
Received by: [Signature]						Relinquished by: [Signature]						Date: [Blank] Time: [Blank]			
Received for Laboratory by: [Signature]						Time: 800						Seals intact? Yes [X] No []			
Was Shipped Container intact when received?						Yes [X] No []						Initials [Signature]			
Were all samples properly preserved?						Yes [X] No []						Sample temp. 39 °C			
Comments:															

Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

* For composite samples include start and stop date and time in comments section **Write in preservative used in comments