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

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
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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
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
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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 # 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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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 # 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
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 # 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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City of Leeds
1040 Park Drive
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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 # 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
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
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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 # 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.

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 # 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: Linda Hall Miller

TMB

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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Chain of Custody Record/ Analysis Report

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

Sample ID		Sample Date	Sample Time	Sample: Comp.*	Sample: Grab	Bottle: Glass	Bottle: Plastic	Preservative: NaoH	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: $NA_2S_2O_3$	Preservative: Cool 4°C	Preservative: Other **	Analysis Requested				
	LC-MP-3	12/21	1615											Field pH	7.65			
														Field Conductivy	325	uS		
														Field Turbidity	2.32	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				
	LC-MP-2	12/21	1620											Field pH	7.62			
														Field Conductivy	325	uS		
														Field Turbidity	2.52	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				

Sampled by: Dennis P. Lyons (PRINT) _____ (SIGN) Relinquished by: Dennis P. Ly 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: Lori Brigman Date: 22 DEC 17 Time: 800

Was Shipped Container intact when received? Yes ✓ No ___ Initials LB Seals intact? Yes NA No ___

Were all samples properly preserved? Yes ___ No ___ Initials LB Sample temp. 3.9 °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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Chain of Custody Record/ Analysis Report

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

Sample ID		Sample Date	Sample Time	Sample: Comp.*	Sample: Grab	Bottle: Glass	Bottle: Plastic	Preservative: NaoH	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: $NA_2S_2O_3$	Preservative: Cool 4°C	Preservative: Other**	Analysis Requested				
	LC-MP-1	12/21	1630											Field pH	7.75			
														Field Conductivy	330	uS		
														Field Turbidity	1.00	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				
	LC-SS-6		1635											Field pH	7.58			
														Field Conductivy	300	uS		
														Field Turbidity	0.85	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				

Sampled by: Dawn R. Lyons (PRINT) _____ (SIGN) Relinquished by: _____ 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: _____ Date: 22DEC17 Time: 800

Was Shipped Container intact when received? Yes ✓ No ___ Initials LB Seals intact? Yes N/A No ___

Were all samples properly preserved? Yes ✓ No ___ Initials LB Sample temp. 3.9 °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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Chain of Custody Record/ Analysis Report

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

Sample ID		Sample Date	Sample Time	Sample: Comp.*	Sample: Grab	Bottle: Glass	Bottle: Plastic	Preservative: NaoH	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: $NA_2S_2O_3$	Preservative: Cool 4°C	Preservative: Other**	Analysis Requested				
	LC-55-7	12/21	1640											Field pH	7.76			
														Field Conductivy	300	uS		
														Field Turbidity	0.88	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				
	LC-55-9	12/21	1643											Field pH	7.88			
														Field Conductivy	305	uS		
														Field Turbidity	1.65	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				

Sampled by: Dennis R Lyons (PRINT) D (SIGN) Relinquished by: D 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: Lori Bryner Date: 22DEC17 Time: 800

Was Shipped Container intact when received? Yes ✓ No ___ Initials LB Seals intact? Yes NA No ___

Were all samples properly preserved? Yes ✓ No ___ Initials LB Sample temp. 3.9°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

Guardian Systems, Inc.
1108 Ashville Road, P.O. Box 190
Leeds, Alabama 35094
(205) 699-6647
email: gsi@gsilab.com
(205) 699-3882 Fax
www.gsilab.com

Chain of Custody Record/ Analysis Report

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

Sample ID		Sample Date	Sample Time	Sample: Comp.*	Sample: Grab	Bottle: Glass	Bottle: Plastic	Sample Preservative: NaoH	Sample Preservative: HNO_3	Sample Preservative: H_2SO_4	Sample Preservative: $NA_2S_2O_3$	Sample Preservative: Cool 4°C	Sample Preservative: Other**	Analysis Requested				
	LC-SS-10	12/21	1646											Field pH	7.83			
														Field Conductivy	310	uS		
														Field Turbidity	1.85	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				
	DC-SS-3	12/21	1655											Field pH	7.75			
														Field Conductivy	280	uS		
														Field Turbidity	2.57	NTU		
					x		x					x		Color, APHA				
					x		x			x		x		Ammonia				
					x		x					x		Hardness, Ca, Mg				

Sampled by: Dennis R Lyons (PRINT) _____ (SIGN) Relinquished by: _____ 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: _____ Date: 22 DEC 17 Time: 800

Was Shipped Container intact when received? Yes ✓ No ___ Initials VB Seals intact? Yes NA No ___

Were all samples properly preserved? Yes ✓ No ___ Initials VB Sample temp. 3.9 °C

Comments:

Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.
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Chain of Custody Record/ Analysis Report

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

Sample ID		Sample Date	Sample Time	Sample: Comp.*	Sample: Grab	Bottle: Glass	Bottle: Plastic	Sample Preservative: NaoH	HNO_3	H_2SO_4	$NA_2S_2O_3$	Cool 4°C	Other**	Analysis Requested					
	DC-55-4	12/21	1700											Field pH	7.72				
														Field Conductivy	285	uS			
														Field Turbidity	2.42	NTU			
					x		x					x		Color, APHA					
					x		x			x		x		Ammonia					
					x		x					x		Hardness, Ca, Mg					
														Field pH					
														Field Conductivy					
														Field Turbidity					
					x		x					x		Color, APHA					
					x		x			x		x		Ammonia					
					x		x					x		Hardness, Ca, Mg					

Sampled by: Dennis R Lyons (PRINT) (SIGN) Relinquished by: Date: 22 Dec 17 Time: 0810

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

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

Received for Laboratory by: Lori Bryner Date: 22DEC17 Time: 800

Was Shipped Container intact when received? Yes ___ No ___ Initials LB Seals intact? Yes NA No ___

Were all samples properly preserved? Yes ___ No ___ Initials LB Sample temp. 3.9 °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