



July 26, 2017

Bo Stanley
City of Tuscumbia
PO Box 29
Tuscumbia, AL 35674

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

<u>LabNumber</u>	<u>Sample Description</u>	<u>Date/Time Collected</u>	<u>Date Submitted</u>
1709973-01	SC-1	7/18/17 10:30	7/18/17
1709973-02	SC-2	7/18/17 10:50	7/18/17
1709973-03	SC-3	7/18/17 12:00	7/18/17
1709973-04	SC-4	7/18/17 12:45	7/18/17

ENERSOLV is accredited to ISO/IEC 17025:2005 by Laboratory Accreditation Bureau and to the TNI 2003 Standard by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by ENERSOLV are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed in accordance with ENERSOLV Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. ENERSOLV considers this report your official record. This information shall remain in ENERSOLV's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Karen Sutton
Vice President Client Services



SAMPLE RESULTS REPORT

Report Date/Time: 07/26/2017 10:48

REPORT TO
 Bo Stanley
 City of Tuscumbia
 PO Box 29
 Tuscumbia, AL 35674



NELAP
 Accredited
 Florida DOH
 #E871078

ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

ENERSOLV also maintains ISO/IEC 17025 accreditation through Laboratory Accreditation Bureau for the specific tests listed in L-A-B Certificate #L2239 scope of accreditation.

Tests within the scope of accreditation are indicated by an asterisk (*).

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.



Cert# L2239 Testing

ADEM
 Drinking Water
 Certification
 No. 40160

Analyte Name	Result	Units	Qual	Regulatory Limit
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Sample Point: SC-1

Sample ID: 1709973-01

Collected: 07/18/2017

Submitted: 07/18/2017

Anions by IC

Dissolved Reactive Phosphorus CAS: 98059-61-1	<0.400	mg/l		
Nitrate plus Nitrite-Nitrogen	0.336	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8	0.336	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0	<0.0600	mg/l		

Inorganics

* Biochemical Oxygen Demand	<3.00	mg/l		D
Chlorophyll a (corrected)	<5.00	ug/l		
Fecal Coliform	90	col/100 ml		
Total Alkalinity	141	mg/l CaCO3		
Total Dissolved Solids	188	mg/l		
* Total Suspended Solids	<2.50	mg/l		
Turbidity	7.71	ntu		

Metals by ICP-OES

* Total Calcium CAS: 7440-70-2	45.7	mg/l		
Total Hardness	130	mg/l CaCO3		
* Total Magnesium CAS: 7439-95-4	3.85	mg/l		

On-Site Analysis

* pH	7.1	su		
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SAMPLE RESULTS REPORT

Report Date/Time: 07/26/2017 10:48

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 No. 40160

Analyte Name	Result	Units	Qual	Regulatory Limit
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Sample Point: SC-2

Sample ID: 1709973-02

Collected: 07/18/2017

Submitted: 07/18/2017

Anions by IC

Dissolved Reactive Phosphorus CAS: 98059-61-1	<0.400	mg/l		
Nitrate plus Nitrite-Nitrogen	0.839	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8	0.839	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0	<0.0600	mg/l		

Inorganics

* Biochemical Oxygen Demand	4.10	mg/l		D
Chlorophyll a (corrected)	<5.00	ug/l		
Fecal Coliform	>6000	col/100 ml		
Total Alkalinity	197	mg/l CaCO3		
Total Dissolved Solids	210	mg/l		
* Total Suspended Solids	4.00	mg/l		
Turbidity	9.41	ntu		

Metals by ICP-OES

* Total Calcium CAS: 7440-70-2	52.6	mg/l		
Total Hardness	147	mg/l CaCO3		
* Total Magnesium CAS: 7439-95-4	3.84	mg/l		

On-Site Analysis

* pH	6.3	su		
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Analyte Name	Result	Units	Qual	Regulatory Limit
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Sample Point: SC-3

Sample ID: 1709973-03

Collected: 07/18/2017

Submitted: 07/18/2017

Anions by IC

Dissolved Reactive Phosphorus CAS: 98059-61-1	<0.400	mg/l		
Nitrate plus Nitrite-Nitrogen	3.22	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8	3.22	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0	<0.0600	mg/l		

Inorganics

* Biochemical Oxygen Demand	<3.00	mg/l		D
Chlorophyll a (corrected)	<5.00	ug/l		
Fecal Coliform	140	col/100 ml		
Total Alkalinity	215	mg/l CaCO3		
Total Dissolved Solids	316	mg/l		
* Total Suspended Solids	<2.50	mg/l		
Turbidity	2.10	ntu		

Metals by ICP-OES

* Total Calcium CAS: 7440-70-2	79.0	mg/l		
Total Hardness	210	mg/l CaCO3		
* Total Magnesium CAS: 7439-95-4	3.14	mg/l		

On-Site Analysis

* pH	5.5	su		
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Analyte Name	Result	Units	Qual	Regulatory Limit
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Sample Point: SC-4

Sample ID: 1709973-04

Collected: 07/18/2017

Submitted: 07/18/2017

Anions by IC

Dissolved Reactive Phosphorus CAS: 98059-61-1	<0.400	mg/l		
Nitrate plus Nitrite-Nitrogen	3.41	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8	3.41	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0	<0.0600	mg/l		

Inorganics

* Biochemical Oxygen Demand	<3.00	mg/l		D
Chlorophyll a (corrected)	<5.00	ug/l		
Fecal Coliform	200	col/100 ml		
Total Alkalinity	195	mg/l CaCO3		
Total Dissolved Solids	157	mg/l		
* Total Suspended Solids	4.67	mg/l		
Turbidity	2.91	ntu		

Metals by ICP-OES

* Total Calcium CAS: 7440-70-2	76.2	mg/l		
Total Hardness	203	mg/l CaCO3		
* Total Magnesium CAS: 7439-95-4	3.09	mg/l		

On-Site Analysis

* pH	6.1	su		
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All calculations are performed prior to rounding per EPA and *Standard Methods* requirements.

Data Qualifiers:

- D Estimated BOD/CBOD value - sample dissolved oxygen depletion less than method required 2.0 mg/l.
- < Less than reporting limit

Analysis Information

Lab Number	Analysis	SpecificMethod	Analyst	Analysis Start Date/Time	Analysis End Date/Time
1709973-01	Total Alkalinity	SM 2320B-1997	RAC	07/19/2017 15:30	
1709973-01	Biochemical Oxygen Demand	SM 5210B-2001	SH	07/19/2017 16:45	07/24/2017 10:04
1709973-01	Total Calcium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-01	Chlorophyll a (corrected)	SM 10200 H	JW	07/19/2017 08:15	
1709973-01	Dissolved Reactive Phosphorus	EPA 300.0	MD	07/18/2017 19:10	
1709973-01	Fecal Coliform	SM 9222D-1997	DS	07/18/2017 15:40	07/19/2017 14:05
1709973-01	Total Hardness	EPA 200.7	DJN	07/21/2017 08:30	
1709973-01	Total Magnesium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-01	Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 19:10	
1709973-01	Nitrate-Nitrogen	EPA 300.0	MD	07/18/2017 19:10	
1709973-01	Nitrate plus Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 19:10	
1709973-01	Total Dissolved Solids	SM 2540C	JW	07/20/2017 10:00	
1709973-01	Total Suspended Solids	USGS I-3765-85	JW	07/19/2017 16:25	
1709973-01	Turbidity	EPA 180.1	JW	07/19/2017 16:55	
1709973-02	Total Alkalinity	SM 2320B-1997	RAC	07/19/2017 15:30	
1709973-02	Biochemical Oxygen Demand	SM 5210B-2001	SH	07/19/2017 16:45	07/24/2017 10:04
1709973-02	Total Calcium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-02	Chlorophyll a (corrected)	SM 10200 H	JW	07/19/2017 08:15	
1709973-02	Dissolved Reactive Phosphorus	EPA 300.0	MD	07/18/2017 20:04	
1709973-02	Fecal Coliform	SM 9222D-1997	DS	07/18/2017 15:40	07/19/2017 14:05
1709973-02	Total Hardness	EPA 200.7	DJN	07/21/2017 08:30	
1709973-02	Total Magnesium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-02	Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:04	
1709973-02	Nitrate-Nitrogen	EPA 300.0	MD	07/18/2017 20:04	
1709973-02	Nitrate plus Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:04	
1709973-02	Total Dissolved Solids	SM 2540C	JW	07/20/2017 10:00	
1709973-02	Total Suspended Solids	USGS I-3765-85	JW	07/19/2017 16:25	
1709973-02	Turbidity	EPA 180.1	JW	07/19/2017 16:55	



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1709973-03	Total Alkalinity	SM 2320B-1997	RAC	07/19/2017 15:30	
1709973-03	Biochemical Oxygen Demand	SM 5210B-2001	SH	07/19/2017 16:45	07/24/2017 10:04
1709973-03	Total Calcium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-03	Chlorophyll a (corrected)	SM 10200 H	JW	07/19/2017 08:15	
1709973-03	Dissolved Reactive Phosphorus	EPA 300.0	MD	07/18/2017 20:23	
1709973-03	Fecal Coliform	SM 9222D-1997	DS	07/18/2017 15:40	07/19/2017 14:05
1709973-03	Total Hardness	EPA 200.7	DJN	07/21/2017 08:30	
1709973-03	Total Magnesium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-03	Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:23	
1709973-03	Nitrate-Nitrogen	EPA 300.0	MD	07/18/2017 20:23	
1709973-03	Nitrate plus Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:23	
1709973-03	Total Dissolved Solids	SM 2540C	JW	07/20/2017 10:00	
1709973-03	Total Suspended Solids	USGS I-3765-85	JW	07/19/2017 16:25	
1709973-03	Turbidity	EPA 180.1	JW	07/19/2017 16:55	
1709973-04	Total Alkalinity	SM 2320B-1997	RAC	07/19/2017 15:30	
1709973-04	Biochemical Oxygen Demand	SM 5210B-2001	SH	07/19/2017 16:45	07/24/2017 10:04
1709973-04	Total Calcium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-04	Chlorophyll a (corrected)	SM 10200 H	JW	07/19/2017 08:15	
1709973-04	Dissolved Reactive Phosphorus	EPA 300.0	MD	07/18/2017 20:41	
1709973-04	Fecal Coliform	SM 9222D-1997	DS	07/18/2017 15:40	07/19/2017 14:05
1709973-04	Total Hardness	EPA 200.7	DJN	07/21/2017 08:30	
1709973-04	Total Magnesium	EPA 200.7/6010C	DJN	07/21/2017 08:30	
1709973-04	Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:41	
1709973-04	Nitrate-Nitrogen	EPA 300.0	MD	07/18/2017 20:41	
1709973-04	Nitrate plus Nitrite-Nitrogen	EPA 300.0	MD	07/18/2017 20:41	
1709973-04	Total Dissolved Solids	SM 2540C	JW	07/20/2017 10:00	
1709973-04	Total Suspended Solids	USGS I-3765-85	JW	07/19/2017 16:25	
1709973-04	Turbidity	EPA 180.1	JW	07/19/2017 16:55	

The results contained in this report are only representative of the sample(s) received.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
 (256) 350-0846

www.enersolv.com

COMPANY/CLIENT NAME City of Tusculmbia	CLIENT P.O. NUMBER ENE 13502 RMCWHORTER	ENERSOLV PROJECT NUMBER ENE 13502 RMCWHORTER
CLIENT POINT OF CONTACT Bo Stanley	CLIENT PHYSICAL ADDRESS 202 East 6th Street	CITY/STATE/ZIP Tuscumbia, AL 35674
CLIENT EMAIL bostan29@comcast.net	PHONE NUMBER (256)386-5674	OTHER INFORMATION
SAMPLE COLLECTED BY <i>R. McWhorter</i>	EXPEDITED REPORT DELIVERY (SURCHARGE)	DATE DUE (REQUIRED)

ENERSOLV LAB NUMBER	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB COMP	REQUESTED ANALYSES												
					ALK	BOD	CHLOROPHYLL	FC	HARD	NO3NO2IC	DRP IC	pH	TDS	TSS	TURBIDITY-LAB		
1709973-01	SC-1	7/18/19	10:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Comments: Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 5.5

SAMPLER INFORMATION	FIELD INFORMATION										Qty	Type	Parameters			
	Start Date	pH	TRC mg/l	DO mg/l	Temp deg C	Start Time	Date	Date	Date	Date				Time	Time	Time
SM 4500H+B	7/18/19	7.1			23.1									1	Poly Gal Cool 6c	Alk, BOD, Chlorophyll, NO3NO2, TDS, TSS, Turb
SM 4500-CI D	7/18/19													1	Poly Pint HNO3 Cool 6c	Hard
SM 4500-O G	7/18/19													1	Poly 150ml Filter System Bottle	DRP
SM 2550B	7/18/19													1	Fecal Cup	FC

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	7/18/19	1550			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	7/18/17	1570			
RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS	DATE	TIME
<i>[Signature]</i>	7/18/17	1570	<input checked="" type="checkbox"/> Accepted		
			<input type="checkbox"/> Rejected		
			<input type="checkbox"/> Accepted with Exception		



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
 (256) 350-0846

COMPANY/CLIENT NAME City of Tuscumbia		CLIENT P.O. NUMBER ENE 13502 RMCWHORTER		ENERSOLV PROJECT NUMBER ENE 13502 RMCWHORTER	
CLIENT POINT OF CONTACT Bo Stanley		CLIENT PHYSICAL ADDRESS 202 East 6th Street		CITY/STATE/ZIP Tuscumbia, AL 35674	
CLIENT EMAIL bostan29@comcast.net		PHONE NUMBER (256)386-5674		OTHER INFORMATION	
SAMPLE COLLECTED BY <i>F. McWhorter</i>		EXPEDITED REPORT DELIVERY (SURCHARGE)		DATE DUE (REQUIRED)	
ENERSOLV LAB NUMBER 1709973-02	SAMPLE DESCRIPTION SC-2	SAMPLE TRANSFER/GRAB DATE 7/18/17	SAMPLE TRANSFER/GRAB TIME 10:50	GRAB COMP	X

REQUESTED ANALYSES					
ALK	X	BOD	X	CHLOROPHYLL	X
FC	X	HARD	X	NO3NO2IC	X
DRP IC	X	PH	X	TDS	X
TSS	X	TURBIDITY-LAB	X		

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 5:52

SAMPLER INFORMATION		FIELD INFORMATION						Qty	Type	Parameters
Start Date	pH su	6.31	TRC mg/l	DO mg/l	Temp deg C	27.1	1	Poly Gal Cool 6c	Alk, BOD, Chlorophyll, NO3NO2, TDS, TSS, Turb	
Start Time	Date		Date	Date	Date			Poly Pint HNO3 Cool 6c	Hard	
Stop Date	Time		Date	Time	Time			Poly 150ml Filter System Bottle	DRP	
Stop Time	Analyst		Analyst	Analyst	Analyst			Fecal Cup	FC	
RELINQUISHED BY: (SIGNATURE) <i>F. McWhorter</i>	DATE 7/18/17	SM 4500H+B	DATE 7/18/17	SM 4500-CI D	DATE 7/18/17	SM 4500-O G	SM 2550B			
RECEIVED BY: (SIGNATURE) <i>Shab</i>	DATE 7/18/17	TIME 1570	RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE	TIME	
RECEIVED FOR LABORATORY USE BY: (SIGNATURE) <i>Shab</i>	DATE 7/18/17	TIME 1570	DATE	DATE	DATE	DATE	DATE	DATE	TIME	

Accepted with Exception

Rejected

Accepted



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
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CLIENT POINT OF CONTACT Bo Stanley		CITY/STATE/ZIP Tuscumbia, AL 35674	
CLIENT EMAIL bostan29@comcast.net		PHONE NUMBER (256)386-5674	
SAMPLE COLLECTED BY <i>F. McWhorter</i>		EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE (REQUIRED)	
ENERSOLV LAB NUMBER 1709973.03	SAMPLE DESCRIPTION SC-3	SAMPLE TRANSFER/GRAB DATE 7/18/17	SAMPLE TRANSFER/GRAB TIME 1200
		GRAB COMP	X
		ALK	X
		BOD	X
		CHLOROPHYLL	X
		FC	X
		HARD	X
		NO3NO2IC	X
		DRP IC	X
		pH	X
		TDS	X
		TSS	X
		TURBIDITY-LAB	X

SAMPLE TEMPERATURE RECEIVED @ 5.62

Collector to complete shaded areas, as applicable

Comments:

SAMPLER INFORMATION	FIELD INFORMATION						Qty	Type	Parameters
	pH su	TRC mg/l	DO mg/l	Temp deg C	Time	Analyst			
Start Date	5.51			21.6			1	Poly Gal Cool 6c	Alk, BOD, Chlorophyll, NO3NO2, TDS, TSS, Turb
Start Time	Date	Date	Date	Date	Analyst		1	Poly Pint HNO3 Cool 6c	Hard
Stop Date	Date	Date	Date	Date	Analyst		1	Poly 150ml Filter System Bottle	DRP
Stop Time	Date	Date	Date	Date	Analyst		1	Fecal Cup	FC
RELINQUISHED BY: (SIGNATURE) <i>F. McWhorter</i>		DATE 7/18/17	TIME 1510	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		DATE 7/18/17	TIME 1510	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RECEIVED FOR LABORATORY USE BY: (SIGNATURE) <i>[Signature]</i>		DATE 7/18/17	TIME 1510	DATE	TIME	SAMPLE STATUS	<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Rejected	<input type="checkbox"/> Accepted with Exception



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
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PAGE	1	of	1
MS4 Area - Spring Creek			

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CLIENT POINT OF CONTACT Bo Stanley		CLIENT PHYSICAL ADDRESS 202 East 6th Street		CITY/STATE/ZIP Tuscumbia, AL 35674	
CLIENT EMAIL bostan29@comcast.net		PHONE NUMBER (256)386-5674		OTHER INFORMATION	
SAMPLE COLLECTED BY <i>R. McWhorter</i>		EXPEDITED REPORT DELIVERY (SURCHARGE)		DATE DUE (REQUIRED)	
ENERSOLV LAB NUMBER 1709973.04	SAMPLE DESCRIPTION SC-4	SAMPLE TRANSFER/GRAB DATE 7/18/17	SAMPLE TRANSFER/GRAB TIME 12:45	GRAB COMP	X

REQUESTED ANALYSES

ALK	X	BOD	X	CHLOROPHYLL	X	FC	X	HARD	X	NO3NO2IC	X	DRP IC	X	PH	X	TDS	X	TSS	X	TURBIDITY-LAB	X
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Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ *85.5*

SAMPLER INFORMATION	FIELD INFORMATION								Qty	Type	Parameters
	pH su	TRC mg/l	DO mg/l	Temp deg C	Start Date	Date	Stop Date	Analyst			
SM 4500H+B	<i>6.1</i>			<i>22.1</i>					1	Poly Gal Cool 6c	Alk, BOD, Chlorophyll, NO3NO2, TDS, TSS, Turb
SM 4500+H+B									1	Poly Pint HNO3 Cool 6c	Hard
SM 4500-CI D									1	Poly 150ml Filter System Bottle	DRP
SM 4500-O G									1	Fecal Cup	FC
SM 2550B											

RELINQUISHED BY (SIGNATURE) <i>Kim McWhorter</i>	DATE 7/18/17	TIME 1510	RELINQUISHED BY (SIGNATURE)	DATE	TIME	
RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	
RECEIVED FOR LABORATORY USE BY (SIGNATURE) <i>Sharb</i>	DATE 7/18/17	TIME 1570	SAMPLE STATUS	<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Rejected	<input type="checkbox"/> Accepted with Exception