



August 01, 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>
1710072-01	Pipe-1	7/19/17 10:20	7/19/17
1710072-02	Pipe- 2		7/19/17

*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.

William D. Hollerman, Ph.D.  
Vice President Technical Services



**SAMPLE RESULTS REPORT**

Report Date/Time: 08/01/2017 09:49

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: Pipe-1**

**Sample ID: 1710072-01**

**Collected: 07/19/2017**

**Submitted: 07/19/2017**

***Inorganics***

- \* HEM (Oil and Grease)
- \* Total Suspended Solids

<5.00 mg/l  
<2.50 mg/l

***On-Site Analysis***

- \* pH

7.2 su

**Sample Point: Pipe- 2**

**Sample ID: 1710072-02**

**Submitted: 07/19/2017**

***On-Site Analysis***

- Flow

No Discharge mgd



**SAMPLE RESULTS REPORT**

**Report Date/Time:** 08/01/2017 09:49

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Cert# L2239 Testing

ADEM  
Drinking Water  
Certification  
No. 40160

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

**Data Qualifiers:**

< Less than reporting limit

**Analysis Information**

Lab Number	Analysis	SpecificMethod	Analyst	Analysis Start Date/Time	Analysis End Date/Time
1710072-01	HEM (Oil and Grease)	EPA 1664A	JG	07/31/2017 06:45	
1710072-01	Total Suspended Solids	USGS I-3765-85	SH	07/21/2017 10:55	

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 Tuscumbia	CLIENT P.O. NUMBER ENE 13502 RMCWHORTER	ENERSOLV PROJECT NUMBER ENE 13502 RMCWHORTER	REQUESTED ANALYSES	
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	OG	TSS
710072-01	PIPE-1	7/19/17	10:20	X	X	X
-02	PIPE-2			X	X	X
	PIPE-2 No discharge					

**Comments:** Collector to complete shaded areas, as applicable

**SAMPLE TEMPERATURE RECEIVED @ 11:30**

SAMPLER INFORMATION		FIELD INFORMATION				Qty	Type	Parameters
Start Date	pH	TRC mg/l	DO mg/l	Temp deg C	2	Glass VM 1000ml HCL Cool 6c	OG	
7/19/17	7.17			21.2	1	1290ml Poly Off Cool 6c	TSS	
Start Time	Date	Date	Date	Date				
Stop Date	Time	Time	Time	Time				
Stop Time	Analyst	Analyst	Analyst	Analyst				
	SM 4500H+B	SM 4500-CI D	SM 4500-O G	SM 2550B				
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	
<i>[Signature]</i>	7/19/17	14:30	<i>[Signature]</i>			<i>[Signature]</i>		
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	
<i>[Signature]</i>	7/19/17	14:30	<i>[Signature]</i>			<i>[Signature]</i>		
RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS:					
<i>[Signature]</i>	7/19/17	14:30	<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input checked="" type="checkbox"/> Accepted with Exception					

**Enersolv Field Calibration Record**

Calibrated By: R. McWhorter Date: 7/19/17 Time: 8:15

pH Meter Calibration - Equipment number: PH031

	7.00 pH buffer	10.00pH buffer	Acceptance Criteria met?	
	Acc. Range 7.0 +/- 0.1	Acc. Range 10.0 +/- 0.1	Yes	No
Value before calibration, s.u.	<u>7.21</u>	<u>10.24</u>		
Buffer Temp. before calibration, °C	<u>26.8</u>	<u>26.8</u>		
Value after calibration, s.u.	<u>6.99</u>	<u>10.0</u>		
Buffer Temp. after calibration, °C	<u>26.8</u>	<u>26.8</u>		
Reagent Number - Pre-calibration	<u>EC 72809</u>	<u>EC 71303</u>		
Reagent Number - Post-calibration				

pH Meter Post Cal. Date: 7/19/17 Time: 1435 4.0 Buffer Cal., if required Date/time: \_\_\_\_\_ NA

	7.00 pH buffer	10.0 pH buffer	4.00 pH buffer	
	Acc. range 7.00 +/- 0.2	Acc. Range 10.00 +/- 0.2	Acc. Range 4.00 +/- 0.1	
Value, s.u.	<u>7.11</u>	<u>9.9</u>		
Buffer Temp. °C	<u>27.8</u>	<u>27.8</u>		
Reagent Number	<u>EC 72809</u>	<u>EC 71303</u>	Pre	Post

Dissolved Oxygen Meter - Equipment Number: \_\_\_\_\_ NA

	Oxygen meter reading	Calibration successful?	
		Yes	No
Value before calibration, mg/L			
% Air Saturation / Slope			
Value after calibration, mg/L			

Turbidity Meter - Equipment number: 150

	1 NTU	10 NTU
Meter Reading Before Calibration, NTU		
Meter Reading After Calibration, NTU		
Turbidity Standard Reagent Number		

Conductivity Meter - Equipment Number: \_\_\_\_\_ NA

Value of Conductivity Standard, uS	
Meter reading before calibration, uS	
Cell Constant Value	
Conductivity Standard Reagent Number	

Residual Chlorine Meter - Equipment Number: \_\_\_\_\_ NA

Reagent numbers - Phenylarsine oxide (free & total) R- \_\_\_\_\_ pH 7 buffer (free) R- \_\_\_\_\_  
 pH 4 buffer (total) R- \_\_\_\_\_ Potassium iodide (total) \_\_\_\_\_ KMnO<sub>4</sub> LCS: S- \_\_\_\_\_  
 Circuit check (check one): OK \_\_\_\_\_ Needs Attention \_\_\_\_\_  
 KMnO<sub>4</sub> LCS, mg/L Acceptance Limits 0.24 - 0.26mg/L Before \_\_\_\_\_ After \_\_\_\_\_

DPD Total Chlorine Reagent Pillows: R- \_\_\_\_\_  
 Each DPD Standard Lot no. \_\_\_\_\_ Before: STD 1 \_\_\_\_\_ STD 2 4 \_\_\_\_\_ STD 3 \_\_\_\_\_  
 After: STD 1 \_\_\_\_\_ STD 2 \_\_\_\_\_ STD 3 \_\_\_\_\_  
 Cal check acceptance limits: (0.13 - 0.31) (0.75 - 0.95) (1.37 - 1.65)

For all field instruments: Calibration/Confirmation Interval: Prior to each use, but not more than daily  
 Calibration Environmental Conditions: Room temperature

Note: If equipment calibration fails to meet acceptance limits, the equipment must be taken out of service and tagged for repair.