



Vincent W. Miles
Pine Bluff Wastewater Utility
1520 South Ohio Street
Pine Bluff, AR 71601-6055
USA

DMR-QA 42  *Final Report*

DMR-QA Proficiency Testing

NPDES Permit: AR0033316

DMR-QA Study

Open Date: 04/15/2022

Close Date: 07/15/2022

Report Issued Date: 08/12/2022



August 12, 2022

Vincent W. Miles
Pine Bluff Wastewater Utility
1520 South Ohio Street
Pine Bluff, AR 71601-6055

Enclosed is your final report for ERA's DMR-QA 42 Proficiency Testing study. Please note that reports were sent on your behalf to your state or regional DMR-QA coordinator. As the permit holder, you are required to review and sign the attached EPA forms and checklists and forward them to your DMR-QA coordinator by September 9, 2022. Your coordinator's contact information is provided below.

All analytes in ERA's DMR-QA 42 Proficiency Testing study have been evaluated by comparing the reported result to the acceptance limits generated using the criteria contained in the most current TNI Non-Potable Water and Whole Effluent Toxicity Testing-Non Potable Water Fields of Proficiency Testing (FoPT) tables.

If you have any "Not Acceptable" evaluations for the DMR-QA 42 study, a letter of corrective action and an order form for the required remedial samples are attached for your convenience. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA coordinator for their corrective action requirements, if any.

Thank you for your participation in ERA's DMR-QA 42 Proficiency Testing study. If you have any questions, please contact the Proficiency Testing Department at 1-800-372-0122, option 2.

Your DMR-QA coordinator is:

Arkansas Department of Energy and Environment
Yvette Wilkins
5301 Northshore Dr.
North Little Rock, AR 72118
Phone: 501-682-0637
waterlab@adeq.state.ar.us

Sincerely,

Matthew Seebeck
Quality Officer

attachments





A Waters Company

DMR-QA 42 Definitions & Study Discussion

Study Dates: 04/15/2022 - 07/15/2022

Report Issued: 08/12/2022

DMRQA Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

- Acceptable = Reported Value falls within the Acceptance Limits.
- Not Acceptable = Reported Value falls outside the Acceptance Limits.
- No Evaluation = Reported Value cannot be evaluated.
- Not Reported = No Value reported.

The Method Description is the method the laboratory reported to ERA.

DMRQA Study Discussion

ERA's DMR-QA 42 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's DMR-QA 42 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All analytes are included in ERA's A2LA accreditation, certification number 1539.01.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers: 880, 935, 079, 077, 080, 595, 595A, 576, 576A

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's DMR-QA 42 study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122, option 2.





A Waters Company

Study: **DMR-QA 42**

NPDES Permit #: **AR0033316**

Laboratory Name: **Pine Bluff Wastewater
Utility**

Inorganic Results





A Waters Company

DMR-QA 42 Final Report

NPDES Permit #: AR0033316
 Permit Holder: Vincent W. Miles
 Environmental Compliance
 Supervisor
 Pine Bluff Wastewater Utility
 1520 South Ohio Street
 Pine Bluff, AR 71601-6055
 (870) 535-6603

ERA Customer Number: P136701
 Report Issued: 08/12/2022
 Study Dates: 04/15/2022 - 07/15/2022

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA pH (cat# 577, lot# Q042-977)											
1900	pH	S.U.	Acceptable	7.83	7.83	7.63 - 8.03	SM4500H+ B online	7.88	0.0752	AR00926	DMRQA42
DMRQA Solids Concentrate (cat# 4030, lot# Q042-4032)											
1960	Total Suspended Solids	mg/L	Acceptable	83.40	88.0	72.3 - 97.6	SM2540D online	83.8	3.94	AR00926	DMRQA42
DMRQA Simple Nutrients (cat# 584, lot# Q042-505)											
1515	Ammonia as N	mg/L	Acceptable	1.22	1.12	0.698 - 1.64	SM 4500-NH3 B-1997 1997	1.15	0.0984	AR00926	DMRQA42
DMRQA Demand (cat# 578, lot# Q042-516)											
1530	BOD	mg/L	Acceptable	99.38	95.5	51.2 - 140	SM 5210 B-1997 1997	94.6	18.2	AR00926	DMRQA42
1555	CBOD	mg/L	Acceptable	84.06	86.5	40.0 - 133	SM 5210 B-1997 1997	89.7	19.4	AR00926	DMRQA42
1565	COD	mg/L	Acceptable	154.25	155	123 - 181	HACH 8000 1979	156	14.6	AR00926	DMRQA42
2040	TOC	mg/L	Acceptable	58.00	61.5	51.4 - 71.0	SM 5310 B-2011 2011	61.0	3.22	AR00926	DMRQA42
DMRQA Oil & Grease Concentrate (cat# 4120, lot# Q042-4122)											
1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	Acceptable	77.35	88.1	61.8 - 103	EPA 1664A 1999	81.3	6.45	AR00926	DMRQA42
DMRQA Total Residual Chlorine (cat# 587, lot# Q042-501)											
1940	Total Residual Chlorine	mg/L	Acceptable	1.77	1.72	1.27 - 2.02	EPA 330.5 1978	1.61	0.114	AR00926	DMRQA42





Study: **DMR-QA 42**

NPDES Permit #: **AR0033316**

Laboratory Name: **Pine Bluff Wastewater
Utility**

Microbiology Results





A Waters Company

DMR-QA 42 Final Report

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 1520 South Ohio Street
 Pine Bluff, AR 71601-6055
 (870) 535-6603

ERA Customer Number: P136701
 Report Issued: 08/12/2022
 Study Dates: 04/15/2022 - 07/15/2022

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
<i>DMRQA WasteWatTM Coliform MicrobETM (cat# 576, lot# Q042-083)</i>											
2530	Fecal Coliforms (MF)	CFU/100mL	Acceptable	125.00	109	34.0 - 344	SM 9222 D (m-FC)-1997 1997	109	51.7	AR00926	DMRQA42





A Waters Company

Study: **DMR-QA 42**

NPDES Permit #: **AR0033316**

Laboratory Name: **Pine Bluff Wastewater
Utility**

WET Results





A Waters Company

DMR-QA 42 Final Report

NPDES Permit #: AR0033316
 Permit Holder: Vincent W. Miles
 Environmental Compliance
 Supervisor
 Pine Bluff Wastewater Utility
 1520 South Ohio Street
 Pine Bluff, AR 71601-6055
 (870) 535-6603

ERA Customer Number: P136701
 Report Issued: 08/12/2022
 Study Dates: 04/15/2022 - 07/15/2022

Analyte Code	Test End Point	Performance Evaluation	Reported Value %	Assigned Value %	Acceptance Limits %	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
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DMRWet Fathead minnow (Test Code 16) (cat# WET005, lot# Q042-005)
 7-day Chronic, Daily Renewal, 20% DMW
 Potassium chloride

0812	IC25 (ON) Growth	Acceptable	55.02	56.0	43.2 - 68.9	EPA 1000.0 2002	56.0	6.44	TN00012	DMRWet42
0814	NOEC (ON) Growth	Acceptable	50	50.0	25.0 - 100	EPA 1000.0 2002			TN00012	DMRWet42
0759	NOEC Survival	Acceptable	25	50.0	25.0 - 100	EPA 1000.0 2002			TN00012	DMRWet42

DMRWet Fathead minnow (Test Code 16) (cat# WET005, lot# Q042-005)
 7-day Chronic, Daily Renewal, 20% DMW
 Potassium chloride

0812	IC25 (ON) Growth	Acceptable	55.02	56.0	43.2 - 68.9	EPA 1000.0 DMW 2002	56.0	6.44	TN00012	DMRWet42
0814	NOEC (ON) Growth	Acceptable	50	50.0	25.0 - 100	EPA 1000.0 DMW 2002			TN00012	DMRWet42
0759	NOEC Survival	Acceptable	25	50.0	25.0 - 100	EPA 1000.0 DMW 2002			TN00012	DMRWet42

DMRWet Ceriodaphnia dubia (Test Code 22) (cat# WET011, lot# Q042-011)
 3-Brood Chronic, Daily Renewal, 20% DMW
 Potassium chloride

0770	IC25 Reproduction	Acceptable	25.84	23.5	10.8 - 36.3	EPA 1002.0 2002	23.5	6.37	TN00012	DMRWet42
0771	NOEC Reproduction	Acceptable	25	25.0	12.5 - 50.0	EPA 1002.0 2002			TN00012	DMRWet42
0769	NOEC Survival	Acceptable	25	25.0	12.5 - 50.0	EPA 1002.0 2002			TN00012	DMRWet42

DMRWet Ceriodaphnia dubia (Test Code 22) (cat# WET011, lot# Q042-011)
 3-Brood Chronic, Daily Renewal, 20% DMW
 Potassium chloride

0770	IC25 Reproduction	Acceptable	25.84	23.5	10.8 - 36.3	EPA 1002.0 DMW 2002	23.5	6.37	TN00012	DMRWet42
0771	NOEC Reproduction	Acceptable	25	25.0	12.5 - 50.0	EPA 1002.0 DMW 2002			TN00012	DMRWet42
0769	NOEC Survival	Acceptable	25	25.0	12.5 - 50.0	EPA 1002.0 DMW 2002			TN00012	DMRWet42



USEPA
DMR-QA 42

**NPDES PERMITTEE
DATA REPORT FORM**



Due September 9, 2022

USEPA NPDES AR0033316

Permit #: AR0033316

Permit Ext:

Permittee Name: Pine Bluff Wastewater Utility

PINE BLUFF WASTEWATER UTILITY

Facility Address: 1520 South Ohio Street

1520 SOUTH OHIO STREET

City: Pine Bluff

State: AR

Postal Code: 71601-6055

PINE BLUFF

AR

71601-6055

Phone Number: (870) 535-6603

Fax Number: (870) 535-6243

870-535-6603

870-535-6243

E-mail address: vincent@pbwastewater.com

VINCENT@PBWASTEWATER.COM

Optional: If WP study was used, list PT provider name:

Optional: WP study number(s):

For DMRQA-42, conducted in 2022, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples

Yes No

Submitted Complete and Accurate Data
by July 15, 2022

Yes No

Received a Graded Report by
August 12, 2022

Yes No

Certification by Permit Holder or Authorized Representative

(as per 40 C.F.R. Section 122.22)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) Permit. Neither I nor any of my subordinates compared our results from independent analyses conducted by us or any other laboratory before we reported our results to the USEPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of

Certifying Official: Vincent W. Miles

Title: Environmental Compliance Supervisor

VINCENT W. MILES

ENV. COMPLIANCE SUP.

Signature: Vincent W. Miles

Date Signed: 08/21/2022

Mailing Address: 1520 South Ohio Street

(enter only if different
from address above)

1520 SOUTH OHIO STREET

City: Pine Bluff

State: AR

Postal Code: 71601-6055

PINE BLUFF

AR

71601-6055

Phone Number: (870) 535-6603

E-mail address: vincent@pbwastewater.com

870-535-6603

VINCENT@PBWASTEWATER.COM

Please make corrections in boxes above

United States
ENVIRONMENTAL PROTECTION AGENCY

Laboratory Performance Evaluation
Laboratory DMR-QA Evaluation Study 42

USEPA NPDES Permit #: AR0033316

Permit Ext:

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			CHEM	MICRO	TOX		
Pine Bluff Wastewater Utility	900 Island Harbor Marina Rd Pine Bluff, AR 71602	AR00926	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	<input type="checkbox"/>
Waypoint Analytical, LLC	2790 Whitten Road Memphis, TN 38133	TN00012	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	<input type="checkbox"/>

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote 2 on DMRQA-42, Frequently Asked Questions page

Permittee Name: Pine Bluff Wastewater Utility

Permit Number: AR0033316

EPA Lab Code: AR00926

Chemistry/Microbiology Analyte Checklist
DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Minerals Alkalinity as CaCO3 Chloride Conductivity at 25°C Fluoride Potassium Sodium Sulfate Total Dissolved Solids at 180°C Total Solids at 105°C				
Hardness Total Suspended Solids Calcium Magnesium Calcium Hardness as CaCO3 Total Hardness as CaCO3				
pH pH SM4500H+ B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids Settleable Solids				
Solids Concentrate Total Suspended Solids SM2540D Total Dissolved Solids at 180°C Total Solids at 105°C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solids Total Suspended Solids Total Dissolved Solids at 180°C Total Solids at 105°C				
Simple Nutrients Ammonia as N SM 4500-NH3 B-1997 Nitrate + Nitrite as N Nitrate as N ortho-Phosphate as P Total Nitrogen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complex Nutrients Total Kjeldahl Nitrogen Total phosphorus as P				
Nitrite Nitrite as N				

Permittee Name: Pine Bluff Wastewater Utility

Permit Number: AR0033316

EPA Lab Code: AR00926

Chemistry/Microbiology Analyte Checklist
DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
<u>Demand</u>				
BOD SM 5210 B-1997	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CBOD SM 5210 B-1997	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD HACH 8000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC SM 5310 B-2011	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Oil & Grease Concentrate</u>				
n-Hexane Extractable Material(O&G) (Grav) EPA 1664A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Oil & Grease</u>				
n-Hexane Extractable Material(O&G) (Grav) n-Hexane Extractable Material(O&G) (IR)				
<u>Trace Metals</u>				
Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Silver Strontium Thallium Vanadium Zinc				
<u>Mercury</u>				
Mercury				
<u>Low-Level Mercury</u>				
Low Level Mercury				

Permittee Name: Pine Bluff Wastewater Utility

Permit Number: AR0033316

EPA Lab Code: AR00926

Chemistry/Microbiology Analyte Checklist
DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
<u>Hexavalent Chromium</u> Hexavalent Chromium				
<u>Turbidity</u> Turbidity				
<u>Total Cyanide</u> Cyanide, total Amenable Cyanide Available Cyanide				
<u>Total Phenolics (4-AAP)</u> Phenolics, total				
<u>Total Residual Chlorine</u> Free Residual Chlorine Total Residual Chlorine EPA 330.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Low-Level Total Residual Chlorine</u> Low Level Total Residual Chlorine				
<u>WasteWatR™ Coliform MicrobE™</u> Total Coliforms (MF) Fecal Coliforms (MF) SM 9222 D (m-FC)-1997 E.coli (MF) Total Coliform (MPN-Multiple Well) Fecal Coliform (MPN-Multiple Well) E.coli (MPN-Multiple Well)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>WasteWatR™ Coliform MicrobE™ - SM 9221</u> Total Coliform (MPN-Multiple Tube) Fecal Coliform (MPN-Multiple Tube) E.coli (MPN-Multiple Tube)				

Vincent W. Miles
Print Name
Vincent W. Miles
Signature/Title

August 21, 2022
Date

Use a separate checklist for EACH lab used

Permittee Name: Pine Bluff Wastewater Utility

Permit Number: AR0033316

EPA Lab Code: TN00012

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 42

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable	Not Acceptable (Corrective Action Required)	
Fathead minnow (Test Code 13)						
0754	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Fathead minnow (Test Code 14)						
0755	48Hr., Acute, Non-Renewal, 25° C, 20% DMW	LC50				
Fathead minnow (Test Code 15)						
0808	7-day Chronic, Daily Renewal, MHSF	IC25 (ON) Growth NOEC (ON) Growth NOEC Survival				
0810	7-day Chronic, Daily Renewal, MHSF					
0756	7-day Chronic, Daily Renewal, MHSF					
Fathead minnow (Test Code 16)						
0812	7-day Chronic, Daily Renewal, 20% DMW EPA 1000.0 2002	IC25 (ON) Growth	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0814	7-day Chronic, Daily Renewal, 20% DMW EPA 1000.0 2002	NOEC (ON) Growth	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0759	7-day Chronic, Daily Renewal, 20% DMW EPA 1000.0 DMW	NOEC Survival	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ceriodaphnia dubia (Test Code 19)						
0764	48-Hr Acute, Nonrenewal, 25° C, MHSF	LC50				
Ceriodaphnia dubia (Test Code 20)						
0765	48-Hr Acute, Nonrenewal, 25° C, 20% DMW	LC50				
Ceriodaphnia dubia (Test Code 21)						
0767	3-Brood Chronic, Daily Renewal, MHSF	IC25 Reproduction NOEC Reproduction NOEC Survival				
0768	3-Brood Chronic, Daily Renewal, MHSF					
0766	3-Brood Chronic, Daily Renewal, MHSF					
Ceriodaphnia dubia (Test Code 22)						
0770	3-Brood Chronic, Daily Renewal, 20% DMW EPA 1002.0 2002	IC25 Reproduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0771	3-Brood Chronic, Daily Renewal, 20% DMW EPA 1002.0 DMW 2002	NOEC Reproduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0769	3-Brood Chronic, Daily Renewal, 20% DMW EPA 1002.0 2002	NOEC Survival	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Daphnia magna (Test Code 32)						
0788	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Daphnia pulex (Test Code 38)						
0794	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Mysid (Test Code 42)						
0798	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				

Permittee Name: Pine Bluff Wastewater Utility

Permit Number: AR0033316

EPA Lab Code: TN00012

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 42

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable	Not Acceptable (Corrective Action Required)	
Mysid (Test Code 43)						
0816	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth NOEC (ON) Growth NOEC Survival				
0818	7-day Chronic, Daily Renewal, SSW					
0799	7-day Chronic, Daily Renewal, SSW					
Inland silverside (Test Code 44)						
0803	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Inland Silverside (Test Code 45)						
0825	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth NOEC (ON) Growth NOEC Survival				
0826	7-day Chronic, Daily Renewal, SSW					
0824	7-day Chronic, Daily Renewal, SSW					
Sheepshead minnow (Test Code 46)						
0804	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Sheepshead minnow (Test Code 47)						
0820	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth NOEC (ON) Growth NOEC Survival				
0822	7-day Chronic, Daily Renewal, SSW					
0805	7-day Chronic, Daily Renewal, SSW					

Vincent Miles
Print Name
Vincent Miles
Signature/Title

August 21, 2022
Date

Use a separate checklist for EACH lab used

CERTIFICATE OF RECOGNITION

ERA congratulates

PINE BLUFF WASTEWATER UTILITY

for your participation and successful evaluation in DMR-QA 42. We recognize the performance of this laboratory for achieving acceptable evaluations for the following analytes.

Ammonia as N
BOD
CBOD
COD

Fecal Coliforms (MF)
n-Hexane Extractable Material
(O&G)(Grav)
pH
TOC

Total Residual Chlorine
Total Suspended Solids



Matthew Seebeck
Quality Officer

P136701