



United States Environmental Protection Agency  
Office of Enforcement and Compliance Assurance  
**DMR-QA Study 42**

**2022**

(This data is collected under the authority of Section 308 of the Clean Water Act.)

**NPDES Permittee Data Report Form**

**Attention:** Follow the instructions on the previous page to complete this form and submit data for evaluation.

<b>Due September 9, 2022</b>	NPDES Permit Number (State + 7-digit ID) AR 0041335	Permit Extension
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Permittee Name  
Jacksonville Wastewater Utility

Current Permittee Mailing Address  
248 Cloverdale Road

City Jacksonville	State AR	Zip Code 72076
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Phone Number 501-982-0581	Fax Number	E-Mail Address Forrest@JWWU.com
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Optional: If WP Study was used, list PT Provider name(s):  
Phenova

Optional: IF WP Study was used, list WP Study Number(s):  
WP0922 / WPM0922

For DMR-QA Study 42, conducted in 2022, the Permittee ensured that their laboratory(ies) performing the required analyses:

Received PT Samples YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Submitted Complete and Accurate Data by July 15, 2022 YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Received a Graded Report by August 12, 2022 YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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**Certification by Permit Holder or Authorized Representative**

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 with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S. EPA. 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 Thea Hughes	Title General Manager
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Signature <i>Thea Hughes</i>	Date 11-3-22
---------------------------------	-----------------

*Address, phone number and e-mail of certifying official are required if different from above.*

Address	Phone Number		
City	State	Zip Code	E-Mail Address



United States Environmental Protection Agency  
Office of Enforcement and Compliance Assurance  
**DMR-QA Study 42**

**2022**

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Permittee Name <b>Jacksonville Wastewater Utility</b>	NPDES Permit Number (State + 7-digit ID) AR <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="5"/>	Permit Extension
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**Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit**

Laboratory Name	Laboratory Address	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			Chem	Micro	WET		
Arkansas Analytical Inc.	8100 National Dr. Little Rock, AR 72209	AR 0 0 0 3 0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C <input type="text" value=""/>	<input checked="" type="checkbox"/>
Jacksonville Wastewater Utility	248 Cloverdale Rd. Jacksonville, AR 72076		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	G <input type="text" value=""/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

\* Lab Types: C = Commercial; F = Federal; G = Local Government; I = Industrial; O = Other; S = State  
 \*\* See Footnote on page 5 (Frequently Asked Questions) for the current list of states with lab accreditation programs

*If you need additional space, please make a copy of this page for additional laboratories.*





## Chemistry/Microbiology Analyte Checklist

DMR-QA Study 42

# 2022

Analyte Test	Test Required	Method Number Used (Optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
<b>Microbiology</b>					
E. coli, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Trace Metals</b>					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selenium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silver	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demands</b>					
5-day BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Minerals</b>					
Alkalinity, total (CaCO <sub>3</sub> )	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO <sub>3</sub> )	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Nutrients</b>					
Ammonia as N	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrate as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrite as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phosphorus as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Misc. Analytes</b>					
Non-Filterable Residue (TSS)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine (Low-Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name Thea Hughes

Signature

Thea Hughes

Date

11-3-22

\* See Footnote on page 5





## Whole Effluent Toxicity (WET) Analyte Checklist

### DMR-QA Study 42

# 2022

Analyte Number	Organism / Conditions	Endpoint	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab*
				Acceptable	Not Acceptable (Corrective Action Required)	
<b>Test Code 13 (refer to EPA Method 2000.0)</b>						
754	Fathead minnow ( <i>Pimephales promelas</i> ) - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Test Code 14 (refer to EPA Method 2000.0)</b>						
755	Fathead minnow ( <i>Pimephales promelas</i> ) - 20% DMW	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 15 (refer to EPA Method 1000.0)</b>						
756	Fathead minnow ( <i>Pimephales promelas</i> ) - MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
808	Fathead minnow ( <i>Pimephales promelas</i> ) - MHSF	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
810	Fathead minnow ( <i>Pimephales promelas</i> ) - MHSF	NOEC (ON) GROWTH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Test Code 16 (refer to EPA Method 1000.0)</b>						
759	Fathead minnow ( <i>Pimephales promelas</i> ) - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
812	Fathead minnow ( <i>Pimephales promelas</i> ) - 20% DMW	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
814	Fathead minnow ( <i>Pimephales promelas</i> ) - 20% DMW	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 19 (refer to EPA Method 2002.0)</b>						
764	<i>Ceriodaphnia dubia</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 20 (refer to EPA Method 2002.0)</b>						
765	<i>Ceriodaphnia dubia</i> - 20% DMW 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 21 (refer to EPA Method 1002.0)</b>						
766	<i>Ceriodaphnia dubia</i> – MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
767	<i>Ceriodaphnia dubia</i> – MHSF	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
768	<i>Ceriodaphnia dubia</i> – MHSF	NOEC REPRODUCTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Test Code 22 (refer to EPA Method 1002.0)</b>						
769	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
770	<i>Ceriodaphnia dubia</i> - 20% DMW	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
771	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 32 (refer to EPA Method 2021.0)</b>						
788	<i>Daphnia magna</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 38 (refer to EPA Method 2021.0)</b>						
794	<i>Daphnia pulex</i> - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Test Code 42 (refer to EPA Method 2007.0)</b>						
798	Mysid ( <i>Americamysis bahia</i> , <i>Mysidopsis bahia</i> ) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 43 (refer to EPA Method 1007.0)</b>						
799	Mysid ( <i>Americamysis bahia</i> , <i>Mysidopsis bahia</i> )	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
816	Mysid ( <i>Americamysis bahia</i> , <i>Mysidopsis bahia</i> )	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
818	Mysid ( <i>Americamysis bahia</i> , <i>Mysidopsis bahia</i> )	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 44 (refer to EPA Method 2006.0)</b>						
803	Inland silverside ( <i>Menidia beryllina</i> ) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 45 (refer to EPA Method 1006.0)</b>						
824	Inland silverside ( <i>Menidia beryllina</i> )	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
825	Inland silverside ( <i>Menidia beryllina</i> )	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
826	Inland silverside ( <i>Menidia beryllina</i> )	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 46 (refer to EPA Method 2004.0)</b>						
804	Sheepshead minnow ( <i>Cyprinodon variegatus</i> ) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Test Code 47 (refer to EPA Method 1004.0)</b>						
805	Sheepshead minnow ( <i>Cyprinodon variegatus</i> )	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
820	Sheepshead minnow ( <i>Cyprinodon variegatus</i> )	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
822	Sheepshead minnow ( <i>Cyprinodon variegatus</i> )	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name Thea Hughes Signature Thea Hughes Date 11-3-22

\* See Footnote on page 5

\*\* Preferred endpoint for DMR-QA performance test reporting

**Complete a separate checklist for EACH lab.**





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6390 Joyce Drive  
# 100  
Golden, CO 80403

Phone 303-940-0033  
Fax 866-283-0269  
www.phenova.com

October 28, 2022

Mr. Forrest Lindsey  
Jacksonville Wastewater Util.  
248 Cloverdale Road  
Jacksonville, AR 72076  
USA

Dear Forrest,

Thank you for participating in the WP0922 Water Pollution Proficiency Testing Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova. This report presents some additional sections and features which will give you more information on the study data for the standards that were reported by your laboratory and more information regarding the overall performance of your laboratory in relation to other study participants.

The enclosed report is in two sections, the "Evaluation Report" and the "Statistical Report". The "Evaluation Report" contains the evaluation of your reported data as well the reported method, analysis date and analyst. The "Evaluation Report" is an updated and enhanced version of the reports you previously received at the conclusion of our PT studies. The "Statistical Report" contains your passing percentage as well as statistics from the study for the analytes reported by your laboratory.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you.

Thank you again for participating in the WP0922 Water Pollution Proficiency Testing Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 866-942-2978.



**Report Definitions:**

**Assigned Value**

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference Institute (NELAP) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

**Evaluation Limits**

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference Institute (NELAP) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

**Evaluation**

*Acceptable*

The reported value falls within the Acceptance Limits.

*Not Acceptable*

The reported value falls outside the Acceptance Limits.

*No Evaluation*

The reported value is non-numeric and can not be evaluated.

*NR*

As required by the TNI standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

**Study Mean and Standard Deviation**

The mean and standard deviation are calculated from the study data using robust statistical calculations when possible. Other statistical calculations may be used if robust statistical calculations are not possible. The displayed values are independent of any statistical calculations required for the calculation of the analyte evaluation limits.

This report must not be reproduced except in full, without the written approval of Phenova.

Various aspects of Phenova's proficiency testing schemes can from time to time be subcontracted. If subcontracting occurs, it is placed with a competent and qualified subcontractor and Phenova is responsible for all work performed.

This report must not be used to claim product certification, approval, or endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the federal government.



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Golden, CO 80403

Phone 303-940-0033  
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www.phenova.com

State Regulatory Agency Request(s):

Phenova has been authorized to send a copy of your WP0922 final results to the following state agencies:

AR

Other Regulatory Agency Request(s):

No requests were made to send a copy of your WP0922 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your WP0922 final results to a third party.



6390 Joyce Drive Phone 303-940-0033  
 # 100 Fax 866-283-0269  
 Golden, CO 80403 www.phenova.com

## Final Report - Water Pollution Proficiency Testing

**Study: WP0922**

**Opening Date: September 6, 2022 - Closing Date: October 21, 2022**

Laboratory: Jacksonville Wastewater Util.  
 248 Cloverdale Road  
 Jacksonville, AR 72076  
 USA

Contact: Mr. Forrest Lindsey, Environmental Compliance Coordinator  
 501-982-0581

EPA Lab ID: AR00945

Solids (PT-SOL-WP)							Lot #: 8237-09			
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1955	Total Dissolved Solids at 180° (TFR)					mg/L	162		117 - 207	NR
1960	Non-Filterable Residue (TSS)	9/22/2022	FL	10256403	EPA 160.2 1979	mg/L	58.3	57.2	46.1 - 66.1	Acceptable
1950	Total Solids					mg/L	221		176 - 266	NR
Nutrients 1 - Simple (PT-NUT1-WP)							Lot #: 8237-10			
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1515	Ammonia as N	10/3/2022	FL	10065006	EPA 351.2	mg/L	2.78	2.60	2.05 - 3.57	Acceptable
1810	Nitrate as N					mg/L	10.8		8.98 - 12.7	NR
1820	Nitrate and Nitrite as N					mg/L	10.8		9.02 - 12.6	NR
1870	Orthophosphate as P					mg/L	4.96		4.21 - 5.70	NR
Additional State Specific Analytes										
1712	Total Dissolved Phosphorus					mg/L	4.96		4.21 - 5.70	NR
1647	Dissolved Nitrogen					mg/L	13.6		11.3 - 15.8	NR
1827	Total Nitrogen					mg/L	13.6		11.3 - 15.8	NR
pH (PT-PH-WP)							Lot #: 8237-15			
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1900	pH	9/22/2022	FL	10008409	EPA 150.1 1983	S.U.	9.14	9.20	8.94 - 9.34	Acceptable





## PT Study Score Report

EPA ID: AR00945  
Laboratory: Jacksonville Wastewater Util.  
248 Cloverdale Road  
Jacksonville, AR 72076  
USA

Study Number	Number of Reported Results	Number of Passing Results	Percent Passing
WP0922	3	3	100%

### Report Definitions:

- Number of Reported Results** The number of results reported which could be evaluated. Results receiving an evaluation of "NR" or "No Evaluation" are not included.
- Number of Passing Results** The number of results reported receiving an evaluation of "Acceptable" or "Check for Error".
- Percent Passing** The percentage of results reported receiving an evaluation of "Acceptable" or "Check for Error".



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www.phenova.com

## Statistical Summary Report - Water Pollution Proficiency Testing

**Opening Date: September 6, 2022 - Closing Date: October 21, 2022**

Laboratory: Jacksonville Wastewater Util.  
248 Cloverdale Road  
Jacksonville, AR 72076  
USA

Contact: Mr. Forrest Lindsey, Environmental Compliance Coordinator  
501-982-0581

EPA Lab ID: AR00945

Solids (PT-SOL-WP) Lot #: 8237-09						
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
1955	Total Dissolved Solids at 180° (TFR)	mg/L	165	13.8	72.2	128
1960	Non-Filterable Residue (TSS)	mg/L	54.8	3.71	79.1	113
1950	Total Solids	mg/L	220	29.7	79.6	120
Nutrients 1 - Simple (PT-NUT1-WP) Lot #: 8237-10						
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
1515	Ammonia as N	mg/L	2.78	0.327	73.7	128
1810	Nitrate as N	mg/L	10.8	0.440	83.1	118
1820	Nitrate and Nitrite as N	mg/L	10.8	0.465	83.5	117
1870	Orthophosphate as P	mg/L	5.01	0.122	84.9	115
Additional State Specific Analytes						
1712	Total Dissolved Phosphorus	mg/L	4.16	0.00	84.9	115
1647	Dissolved Nitrogen	mg/L	18.8	0.00	83.1	116
1827	Total Nitrogen	mg/L	15.4	2.58	83.1	116
pH (PT-PH-WP) Lot #: 8237-15						
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
1900	pH	S.U.	9.10	0.120	97.8	102





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Certificate # 2427.01

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Golden, CO 80403

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www.phenova.com

October 6, 2022

Forrest Lindsey  
Jacksonville Wastewater Util.  
248 Cloverdale Road  
Jacksonville, AR 72076  
USA

Dear Forrest,

Thank you for participating in the WPM0922 Water Pollution Proficiency Testing Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova. This report presents some additional sections and features which will give you more information on the study data for the standards that were reported by your laboratory and more information regarding the overall performance of your laboratory in relation to other study participants.

The enclosed report is in two sections, the "Evaluation Report" and the "Statistical Report". The "Evaluation Report" contains the evaluation of your reported data as well the reported method, analysis date and analyst. The "Evaluation Report" is an updated and enhanced version of the reports you previously received at the conclusion of our PT studies. The "Statistical Report" contains your passing percentage as well as statistics from the study for the analytes reported by your laboratory.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you.

Thank you again for participating in the WPM0922 Water Pollution Proficiency Testing Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 866-942-2978.



**Report Definitions:**

***Assigned Value***

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference Institute (TNI) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

***Evaluation Limits***

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference Institute (TNI) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

***Evaluation***

- Acceptable* The reported value falls within the Acceptance Limits.
- Not Acceptable* The reported value falls outside the Acceptance Limits.
- No Evaluation* The reported value is non-numeric and can not be evaluated.
- NR* As required by the TNI standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

***Study Mean and Standard Deviation***

The mean and standard deviation are calculated from the study data using robust statistical calculations when possible. Other statistical calculations may be used if robust statistical calculations are not possible. The displayed values are independent of any statistical calculations required for the calculation of the analyte evaluation limits.

This report must not be reproduced except in full, without the written approval of Phenova.  
Various aspects of Phenova's proficiency testing schemes can from time to time be subcontracted. If subcontracting occurs, it is placed with a competent and qualified subcontractor and Phenova is responsible for all work performed.  
This report must not be used to claim product certification, approval, or endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the federal government.





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State Regulatory Agency Request(s):

Phenova has been authorized to send a copy of your WPM0922 final results to the following state agencies:

AR

Other Regulatory Agency Request(s):

No requests were made to send a copy of your WPM0922 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your WPM0922 final results to a third party.

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**Final Report - Water Pollution Proficiency Testing**

**Study: WPM0922**

**Opening Date: September 13, 2022 - Closing Date: September 29, 2022**

Laboratory: Jacksonville Wastewater Util.  
 248 Cloverdale Road  
 Jacksonville, AR 72076  
 USA

Contact: Forrest Lindsey  
 501-982-0581

EPA Lab ID: AR00945

Micro (PT-MIC-WP)										Lot #: 5380-12	
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
2530	Fecal Coliform, MF	9/22/2022	FL		SM 9222 B	CFU/100 mL	341	340**	96 - 1210	Acceptable	
2525	E. Coli, MF					CFU/100 mL	408		293 - 567	NR	
2500	Total Coliform, MF					CFU/100 mL	432		283 - 657	NR	
2530	Fecal Coliform, MPN-Multiple Well					MPN/100 mL	408		157 - 1060	NR	
2525	E. Coli, MPN-Multiple Well					MPN/100 mL	486		212 - 1110	NR	
2500	Total Coliform, MPN-Multiple Well					MPN/100 mL	511		202 - 1290	NR	





## PT Study Score Report

EPA ID: AR00945  
Laboratory: Jacksonville Wastewater Util.  
248 Cloverdale Road  
Jacksonville, AR 72076  
USA

Study Number	Number of Reported Results	Number of Passing Results	Percent Passing
WPM0922	1	1	100%

### Report Definitions:

- Number of Reported Results** The number of results reported which could be evaluated. Results receiving an evaluation of "NR" or "No Evaluation" are not included.
- Number of Passing Results** The number of results reported receiving an evaluation of "Acceptable" or "Check for Error".
- Percent Passing** The percentage of results reported receiving an evaluation of "Acceptable" or "Check for Error".



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## Statistical Summary Report - Water Pollution Proficiency Testing

**Opening Date: September 13, 2022 - Closing Date: September 29, 2022**

Laboratory: Jacksonville Wastewater Util.  
 248 Cloverdale Road  
 Jacksonville, AR 72076  
 USA

Contact: Forrest Lindsey  
 501-982-0581

EPA Lab ID: AR00945

Micro (PT-MIC-WP)				Lot #: 5380-12		
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
2530	Fecal Coliform, MF	CFU/100 mL	343	126	28.2	355
2525	E. Coli, MF	CFU/100 mL	410	44.0	71.8	139
2500	Total Coliform, MF	CFU/100 mL	417	82.7	65.5	152
2530	Fecal Coliform, MPN-Multiple Well	MPN/100 mL	428	146	38.5	260
2525	E. Coli, MPN-Multiple Well	MPN/100 mL	494	133	43.6	228
2500	Total Coliform, MPN-Multiple Well	MPN/100 mL	511	147	39.5	252





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August 12, 2022

Ms. Norma James  
Arkansas Analytical Inc.  
8100 National Dr.  
Little Rock, AR 72209  
USA

Dear Norma,

Thank you for participating in the DMRQA42-WET DMRQA PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you. A final report for your laboratory will be sent to all accrediting agencies you requested at the time of data submittal.

Thank you again for participating in the DMRQA42-WET DMRQA PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 303-940-0033.



**Report Definitions:**

***Assigned Value***

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

***Evaluation Limits***

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC PT FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

***Evaluation***

*Acceptable*

The reported value falls within the Acceptance Limits.

*Not Acceptable*

The reported value falls outside the Acceptance Limits.

*No Evaluation*

The reported value is non-numeric and can not be evaluated.

*NR*

As required by the NELAC standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).



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Golden, CO 80403 www.phenova.com

**Final Report - DMRQA PT  
Study: DMRQA42-WET**

**Opening Date: April 15, 2022 - Closing Date: July 15, 2022**

Facility: Arkansas Analytical Inc.  
8100 National Dr.  
Little Rock, AR 72209  
USA

Contact: Ms. Norma James  
5014553233  
EPA Lab ID: AR00030  
NPDES Permit ID:

Fathead Minnow Method 13 (PT-13-WET)							Lot #: 8553-13	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Acute MHSF 25° - LC50	10213602	EPA 2000 Fathead Minnow Acute MHSF 25°C	S.U.	33.6	41.2	15.1 - 52.0	Acceptable
Fathead Minnow Method 15 (PT-15-WET)							Lot #: 8553-15	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Chronic MHSF - Survival NOEC	10214003	EPA 1000 Fathead Minnow Chronic MHSF	S.U.	50	50	25 - 100	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth IC25 (ON)			S.U.	54.1		38.0 - 70.2	NR
3410	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	10214003	EPA 1000 Fathead Minnow Chronic MHSF	S.U.	50	25	12.5 - 100	Acceptable
Ceriodaphnia Method 21 (PT-21-WET)							Lot #: 8553-21	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Chronic MHSF - Survival NOEC	10215006	EPA 1002 Ceriodaphnia Chronic MHSF	S.U.	50	25	25 - 100	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction IC25			S.U.	29.8		19.2 - 40.3	NR
3315	Ceriodaphnia Chronic MHSF - Reproduction NOEC	10215006	EPA 1002 Ceriodaphnia Chronic MHSF	S.U.	25	25	12.5 - 50	Acceptable

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**Final Report - DMRQA PT**

**Study: DMRQA42-WET**

**Opening Date: April 15, 2022 - Closing Date: July 15, 2022**

Facility: Arkansas Analytical Inc.  
8100 National Dr.  
Little Rock, AR 72209  
USA

Contact: Ms. Norma James  
5014553233  
EPA Lab ID: AR00030  
NPDES Permit ID:

Daphnia Method 38 (PT-38-WET)		Lot #: 8553-38						
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3355	Daphnia Pulex Acute MHSF 25° - LC50	10215619	EPA 2021.0 - Daphnia pulex, 48hr Acute, nonrenewal, MHSF 25°C 2002	S.U.	62.1	50.4	49.0 - 75.3	Acceptable