

6390 Joyce Drive
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Golden, CO 80403

Phone 303-940-0033
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www.phenova.com

August 12, 2022

Mr. David Romine
Paragould Light Water & Cable
401 Grant Lane
P.O. Box 9
Paragould, AR 72450
United States

Dear David,

Thank you for participating in the DMRQA42-CHEM 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-CHEM 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:

NELAC Experimental Analytes

NELAC Experimental Analytes must be run twice a year. Due to the experimental nature of the acceptance limits, accreditation status is not based on the evaluation received.

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

- | | |
|-----------------------|--|
| <i>Acceptable</i> | The reported value falls within the Acceptance Limits. |
| <i>Not Acceptable</i> | The reported value falls outside the Acceptance Limits. |
| <i>No Evaluation</i> | The reported value is non-numeric and can not be evaluated. |
| <i>NR</i> | 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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Final Report - DMRQA PT

Study: DMRQA42-CHEM

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

Facility: Paragould Light Water & Cable
401 Grant Lane
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UNITED STATES

Contact: Mr. David Romine, WWTP Operations Mgr
(870) 239-7723

EPA Lab ID: AR00957
NPDES Permit ID: AR0033766

Trace Metals (PT-TM1-DMRQA) Lot #: 8552-04

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1000	Aluminum			µg/L	3490		3090 - 3840	2910 - 3970	NR
1005	Antimony			µg/L	244		204 - 274	186 - 292	NR
1010	Arsenic			µg/L	131		110 - 153	99.3 - 164	NR
1015	Barium			µg/L	941			800 - 1080	NR
1020	Beryllium			µg/L	285			242 - 327	NR
1030	Cadmium		3111B-2011	µg/L	783	630		666 - 900	Not Acceptable
1040	Chromium		3111B-2011	µg/L	909	762		773 - 1050	Not Acceptable
1050	Cobalt			µg/L	867			737 - 997	NR
1055	Copper		3111B-2011	µg/L	660	593		561 - 759	Acceptable
1070	Iron		3111B-2011	µg/L	3390	3076		2880 - 3890	Acceptable
1075	Lead		3111B-2011	µg/L	747	698		635 - 859	Acceptable
1090	Manganese			µg/L	326			277 - 375	NR
1100	Molybdenum			µg/L	172		153 - 189	144 - 198	NR
1105	Nickel		3111B-2011	µg/L	845	743	761 - 930	743 - 953	Acceptable
1140	Selenium			µg/L	883			751 - 1020	NR
1150	Silver		3111B-2011	µg/L	433	384		368 - 498	Acceptable
1165	Thallium			µg/L	285		246 - 317	228 - 335	NR
1185	Vanadium			µg/L	78.3			66.6 - 90.1	NR
1190	Zinc		3111B-2011	µg/L	835	761		710 - 960	Acceptable

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Demand (PT-DEM-DMRQA) Lot #: 8552-07

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1530	BOD		5210B-2001	mg/L	71.2	51.5	46.6 - 119	35.9 - 119	Acceptable
1555	CBOD		5210B-2001	mg/L	71.2	51.1	39.1 - 119	27.9 - 119	Acceptable
1565	COD		Hach 8000	mg/L	110	96	92.6 - 124	84.8 - 132	Acceptable
2040	TOC			mg/L	43.6		38.6 - 48.2	36.2 - 50.7	NR

Solids (PT-SOL-DMRQA) Lot #: 8552-09

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1955	Total Dissolved Solids at 180° (TFR)			mg/L	650		585 - 715	585 - 715	NR
1960	Non-Filterable Residue (TSS)		2540D-1997	mg/L	72.4	69.0	62.3 - 79.6	58.5 - 81.0	Acceptable

Specific Conductance (PT-COND-DMRQA) Lot #: 8552-72

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1610	Specific Conductance (25°C)		2510 SM 21st Ed	µmhos/cm	839	853.6		755 - 923	Acceptable

Nutrients 1 - Simple (PT-NUT1-DMRQA) Lot #: 8552-10

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1515	Ammonia as N		4500 NH3 B+E - 1997	mg/L	3.48	4.200	2.92 - 4.10	2.63 - 4.39	Acceptable
1810	Nitrate as N		HACH 10206	mg/L	19.8	18.4	17.6 - 21.9	16.6 - 23.0	Acceptable
1870	Orthophosphate as P			mg/L	3.07			2.61 - 3.53	NR

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Nutrients 2 - Complex (PT-NUT2-DMRQA) Lot #: 8552-11

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1795	Total Kjeldahl Nitrogen (TKN)		HACH 10242	mg/L	23.1	23.0	19.2 - 26.2	17.4 - 28.0	Acceptable
1910	Total Phosphorous		HACH 8190	mg/L	5.43	5.4	4.80 - 6.01	4.50 - 6.31	Acceptable

Oil & Grease - 1L (PT-OGR1L-DMRQA) Lot #: 8552-103

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1803	Oil & Grease		EPA Method 1664	mg/L	48.5	38.7	35.7 - 54.6	31.0 - 59.3	Acceptable

pH (PT-PH-DMRQA) Lot #: 8552-15

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1900	pH		4500 H-B - 2000	S.U.	7.12	7.13		6.92 - 7.32	Acceptable

Total Cyanide (PT-CN-DMRQA) Lot #: 8552-14

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1645	Total Cyanide		4500-CN C+E - 1999	mg/L	0.548	0.455		0.356 - 0.740	Acceptable

Phenolics (PT-PHEN-DMRQA) Lot #: 8552-16

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1905	Total Phenolics (4AAP)		5530 B+D - 2005	mg/L	3.00	3.097	1.31 - 3.30	0.989 - 3.30	Acceptable

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Micro (Fecal, E. Coli & Total) (PT-MIC-DMRQA) Lot #: 8554-12

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
2530	Fecal Coliform, MF		9222D - 1997	CFU/100 mL	833	955		262 - 2650	Acceptable
2525	E. Coli, MF			CFU/100 mL	693			178 - 2690	NR
2530	Fecal Coliform, MPN			MPN/100 mL	1010			453 - 2240	NR
2500	Total Coliform, MPN			MPN/100 mL	1190			658 - 2140	NR
2525	E. Coli, MPN			MPN/100 mL	1060			627 - 1780	NR