

6390 Joyce Drive
100
Golden, CO 80403

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

August 3, 2018

Ms. Nichole Jones
BoJhun Environmental Services
222 S. Main Street
Fostoria, OH 44830
United States

Dear Nichole,

Thank you for participating in the DMRQA38-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 DMRQA38-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

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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Final Report - DMRQA PT

Study: DMRQA38-CHEM

Opening Date: March 23, 2018 - Closing Date: July 6, 2018

Facility: BoJhun Environmental Services
222 S. Main Street
Fostoria, OH 44830
UNITED STATES

Contact: Ms. Nichole Jones, Owner
419-436-7066

EPA Lab ID: OH01333

NPDES Permit ID:

Chromium VI (PT-CR6-DMRQA) Lot #: 8539-06

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1045	Chromium VI	20066255	SM 3500-Cr B-2009 2009	µg/L	715	704	637 - 786	601 - 818	Acceptable

Demand (PT-DEM-DMRQA) Lot #: 8539-07

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1530	BOD	20135255	SM 5210 B-2001 2001	mg/L	76.9	66.6	50.4 - 128	38.9 - 128	Acceptable
1555	CBOD	20135255	SM 5210 B-2001 2001	mg/L	76.9	79.9	42.3 - 128	30.3 - 128	Acceptable
1565	COD	20136805	SM 5220 D-1997 1997	mg/L	119	119	101 - 133	92.4 - 141	Acceptable
2040	TOC			mg/L	47.1		41.7 - 52.0	39.1 - 54.6	NR

Solids (PT-SOL-DMRQA) Lot #: 8539-09

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1955	Total Dissolved Solids at 180° (TFR)	20050402	SM 2540 C-1997 1997	mg/L	500	501	450 - 550	450 - 550	Acceptable
1960	Non-Filterable Residue (TSS)	20051201	SM 2540 D-1997 1997	mg/L	80.1	75.2	69.3 - 88.1	65.3 - 89.2	Acceptable

Minerals 2 - Hardness (PT-MIN2-DMRQA) Lot #: 8539-102

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1755	Total Hardness (as CaCO ₃)	20047603	SM 2340 C-1997 1997	mg/L	272	270		232 - 313	Acceptable

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Nutrients 1 - Simple (PT-NUT1-DMRQA) Lot #: 8539-10

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1515	Ammonia as N	20109404	SM 4500-NH3 D-1997 1997	mg/L	16.5	16.4	14.3 - 18.5	13.2 - 19.6	Acceptable
1810	Nitrate as N	20115815	SM 4500-NO3? E-2000 2000	mg/L	18.5	17.98	16.4 - 20.4	15.4 - 21.4	Acceptable
1870	Orthophosphate as P	20124214	SM 4500-P E-1999 1999	mg/L	4.44	4.56		3.77 - 5.11	Acceptable

Nutrients 2 - Complex (PT-NUT2-DMRQA) Lot #: 8539-11

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1795	Total Kjeldahl Nitrogen (TKN)	20109404	SM 4500-NH3 D-1997 1997	mg/L	12.4	12.46	10.1 - 14.3	9.12 - 15.3	Acceptable
1910	Total Phosphorous	20124214	SM 4500-P E-1999 1999	mg/L	6.52	6.35	5.77 - 7.19	5.42 - 7.55	Acceptable

Nutrients 3 - Nitrite (PT-NUT3-DMRQA) Lot #: 8539-69

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1840	Nitrite as N	20113104	SM 4500-NO2 ⁻ B-2000 2000	mg/L	1.39	1.39	1.24 - 1.55	1.16 - 1.62	Acceptable

Oil & Grease - 1L (PT-OGR1L-DMRQA) Lot #: 8539-103

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1803	Oil & Grease	10261617	EPA 1664B (HEM) 2010	mg/L	135	118	108 - 149	98.2 - 155	Acceptable

Residual Chlorine Low Level (PT-CLLL-DMRQA) Lot #: 8539-94

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1940	Total Residual Chlorine	20081612	SM 4500-Cl G-2000 2000	µg/L	91.0	90	51.0 - 131	31.0 - 151	Acceptable

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pH (PT-PH-DMRQA)									Lot #: 8539-15
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1900	pH	20105219	SM 4500-H+ B-2000 2000	S.U.	9.63	9.62		9.43 - 9.83	Acceptable