

6390 Joyce Drive
100
Golden, CO 80403

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

August 3, 2018

Ms. Kelley Keenan
Environmental Testing Solutions, Inc.
351 Depot Street
Asheville, NC 28801
USA

Dear Kelley,

Thank you for participating in the DMRQA38-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 DMRQA38-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

<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).

Final Report - DMRQA PT

Study: DMRQA38-WET

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

Facility: Environmental Testing Solutions, Inc.
351 Depot Street
Asheville, NC 28801
USA

Contact: Ms. Kelley Keenan
828-350-9364
EPA Lab ID: NC01230
NPDES Permit ID:

Fathead Minnow Method 13 (PT-13-WET)								Lot #: 8540-13	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3410	Fathead Minnow Acute MHSF 25° - LC50	10213602	EPA 2000.0 - Fathead minnow, 48-hr Acute, nonrenewal, MHSF 25°C 2002	S.U.	34.1	26.2	20.9 - 47.3	Acceptable	
Fathead Minnow Method 15 (PT-15-WET)								Lot #: 8540-15	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3410	Fathead Minnow Chronic MHSF - Survival NOEC	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	50	50	25 - 100	Acceptable	
3410	Fathead Minnow Chronic MHSF - Growth IC25 (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	47.7	39.3	24.0 - 71.4	Acceptable	
3410	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	25	25	12.5 - 50	Acceptable	
Ceriodaphnia Method 19 (PT-19-WET)								Lot #: 8540-19	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3315	Ceriodaphnia Acute MHSF 25° - LC50	10214809	EPA 2002.0 - Ceriodaphnia dubia, 48-hr Acute, renewal, MHSF 25°C 2002	S.U.	43.9	25.9	<6.25 - 82.3	Acceptable	

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Ceriodaphnia Method 21 (PT-21-WET)								Lot #: 8540-21
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Chronic MHSF - Survival NOEC	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	50	25	12.5 - 100	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction IC25	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	25.3	30.9	7.04 - 43.6	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction NOEC	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	25	25	12.5 - 50	Acceptable
Mysid Method 42 (PT-42-WET)								Lot #: 8540-42
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3395	Mysid Acute SSW 25° - LC50	10216009	EPA 2007.0 - Mysid, 48-hr Acute, nonrenewal, 40-fath SW, 25°C 2002	S.U.	30.7	34.2	17.9 - 43.5	Acceptable

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Mysid Method 43 (PT-43-WET)								Lot #: 8540-43	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3395	Mysid Chronic SSW - Survival NOEC	10254009	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002	S.U.	25	25	12.5 - 50	Acceptable	
3395	Mysid Chronic SSW - Growth IC25 (ON)	10254009	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002	S.U.	28.8	31.3	23.9 - 33.6	Acceptable	
3395	Mysid Chronic SSW - Growth NOEC (ON)	10254009	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002	S.U.	25	25	12.5 - 50	Acceptable	
Menidia Method 44 (PT-44-WET)								Lot #: 8540-44	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3380	Menidia Acute SSW 25° - LC50	10216407	EPA 2006.0 - Inland Silverside, 48-hr Acute, nonrenewal, 40-fathoms SW 25°C 2002	S.U.	43.2	35.4	24.4 - 62.1	Acceptable	

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Menidia Method 45 (PT-45-WET)							Lot #: 8540-45	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3380	Menidia Chronic SSW - Survival NOEC	10253802	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002	S.U.	25	25	12.5 - 50	Acceptable
3380	Menidia Chronic SSW - Growth IC25 (ON)	10253802	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002	S.U.	29.6	30.6	24.8 - 34.4	Acceptable
3380	Menidia Chronic SSW - Growth NOEC (ON)	10253802	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002	S.U.	25	25	12.5 - 50	Acceptable