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Thekkekalathil Chandrasekhar
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DMR-QA 32 *Final Report*

DMR-QA Proficiency Testing

DMR-QA Study

Open Date: 03/19/12

Close Date: 07/06/12

Report Issued Date: 07/27/12



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July 27, 2012

Thekkekalathil Chandrasekhar
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Enclosed is your final report for ERA's DMR-QA 32 Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's DMR-QA 32 Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

If you have any "Not Acceptable" evaluations for the DMR-QA 32 study, and these results have been reported by your permittees, a letter of corrective action and order form are attached for your convenience. If you have a "Not Acceptable" evaluation, but no letter of corrective action or order form, ERA recommends that you contact your permittees for the corrective action requirements that their state or regional DMR-QA Coordinator may require.

Thank you for your participation in ERA's DMR-QA 32 Proficiency Testing study. If you have any questions, please contact our proficiency testing department at 1-800-372-0122.

Sincerely,

Jay R. McBurney
Quality Program Manager

attachments
jrm



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Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida Dept. of Health	Steve Arms / 904.791.1502	All Analytes	2009 TNI



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DMRQA-32 Definitions & Study Discussion

Study Dates: 03/19/12 - 07/06/12

Report Issued: 07/27/12

DMRQA Study Definitions

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

The ERA Assigned Values are compliant with the current FoPT tables. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2009 TNI Standards. 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 tables, 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 32 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the criteria contained in the current TNI FoPT tables.

ERA's DMR-QA 32 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 2009 TNI PT Standard and the criteria contained in the current TNI Fields of Proficiency Testing (FoPT) tables.

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 32 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.





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DMR-QA 32 Laboratory Exception Report

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S744813
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2009 TNI Evaluation Check: There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations							
TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
<i>DMRQA Inland silverside (Test Code 44) (cat# WET018)</i> <i>48Hr., Acute, Non-Renewal, 25° C, 40 FSW</i> <i>Potassium chloride</i>							
3380	LC50	%	57.7	69.8	60.2 - 79.4	Not Acceptable	EPA 2006

Final Report Results For Laboratory State of Florida DEP Biology Laboratory



2009 TNI Evaluation Report

Study: **DMR-QA 32**

ERA Customer Number: **S744813**

Laboratory Name: **State of Florida DEP
Biology Laboratory**

WET Results



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DMR-QA 32 2009 TNI Evaluation Final Complete Report

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Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Fathead minnow (Test Code 13) (cat# WET002)
48Hr., Acute, Non-Renewal, 25° C, MHSF
Potassium chloride

0754	LC50	57.4	45.6	23.9 - 67.4	Acceptable	EPA 2000.0 2002	3/27/2012	1.08	45.6	10.9	DANIELS_J
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Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Fathead minnow (Test Code 15) (cat# WET004)
7-day Short term Chronic, Daily Renewal, MHSF
Potassium chloride

0808	IC25 (ON) Growth	26.0	35.5	17.5 - 53.5	Acceptable	EPA 1000 2002	3/28/2012	-1.05	35.5	9.00	DANIELS_J
0810	NOEC (ON) Growth	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1000 2002	3/28/2012	0			DANIELS_J
0756	NOEC Survival	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1000 2002	3/28/2012	0			DANIELS_J

Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Ceriodaphnia dubia (Test Code 20) (cat# WET009)
48Hr., Acute Renewal, 25° C, 20% DMW
Potassium chloride

0765	LC50	21.8	23.4	7.96 - 38.9	Acceptable	EPA 2002	3/27/2012	-0.213	23.4	7.74	ALEXANDE_B
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DMRQA Ceriodaphnia dubia (Test Code 22) (cat# WET011)
7-day Short term Chronic, Daily Renewal, 20% DMW
Potassium chloride

0770	IC25 Reproduction	13.7	21.8	8.00 - 35.6	Acceptable	EPA 1002 2002	5/1/2012	-1.18	21.8	6.91	DAY_A
0771	NOEC Reproduction	12.5	12.5	6.25 - 25.0	Acceptable	EPA 1002 2002	5/1/2012	0			DAY_A
0769	NOEC Survival	12.5	25.0	12.5 - 50.0	Acceptable	EPA 1002 2002	5/1/2012	0			DAY_A

Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Mysid (Test Code 42) (cat# WET016)
48Hr., Acute, Non-Renewal, 25° C, 40 FSW
Potassium chloride

0798	LC50	37.9	36.1	16.2 - 56.0	Acceptable	EPA 2007	3/27/2012	0.183	36.1	9.96	ALEXANDE_B
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Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Mysid (Test Code 43) (cat# WET017)
7-day Short term Chronic, Daily Renewal, 40 FSW
Potassium chloride

0816	IC25 (ON) Growth	32.0	28.5	15.4 - 41.7	Acceptable	EPA 1007 2002	3/27/2012	0.526	28.5	6.59	DANIELS_J
0818	NOEC (ON) Growth	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1007 2002	3/27/2012	0			DANIELS_J
0799	NOEC Survival	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1007 2002	3/27/2012	0			DANIELS_J





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Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Inland silverside (Test Code 44) (cat# WET018)
48Hr., Acute, Non-Renewal, 25° C, 40 FSW
Potassium chloride

0803	LC50	57.7	69.8	60.2 - 79.4	Not Acceptable	EPA 2006	3/27/2012	-2.52	69.8	4.80	DANIELS_J
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Analyte Code	Test End Point	Reported Value	Assigned Value %	Acceptance Limits %	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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DMRQA Inland Silverside (Test Code 45) (cat# WET013)
7-day Short term Chronic, Daily Renewal, 40 FSW
Potassium chloride

0825	IC25 (ON) Growth	59.1	59.2	49.1 - 69.4	Acceptable	EPA 1006.0 2002	3/27/2012	-0.0252	59.2	5.08	DAY_A
0826	NOEC (ON) Growth	50.0	50.0	25.0 - 100	Acceptable	EPA 1006.0 2002	3/27/2012	0			DAY_A
0824	NOEC Survival	50.0	50.0	25.0 - 100	Acceptable	EPA 1006.0 2002	3/27/2012	0			DAY_A

