



QCS Laboratory Auditing and The On-Line System
for The Monthly Proficiency Testing Program

NALMA, June 16, 2008
Niagara Falls, New York



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Laboratory Certification

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- Similar certification systems are in place for field services, meter centers and data processing centers.



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- In all cases, *QCS* works closely with the laboratory staff to achieve and maintain full certification.



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 - mandatory use of the “B” fat filter;
 - full formal documentation of all lab procedures;
 - increased emphasis on records associated with instrument maintenance and reagent preparation;
 - pilot sample preparation logs and uniformity checks;
 - reduction in tolerances for MD and SDD in the samples unknown program.



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- During on-site audits, lab staff are generally provided with a number of suggestions related to potential improvements.
- If these specific areas are not addressed by the next on-site audit, the lab status may be downgraded to conditionally certified until corrective measures are implemented.

CDCB Auditing Guidelines for Laboratories

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Lab Manager Training

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CDCB Auditing Guidelines for Laboratories

Lab Manager Training

Basic Lab QC

Technician Training

Lab Documentation

General Record Keeping

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Lab Supplies / Reagents

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CDCB Auditing Guidelines for Laboratories

Lab Manager Training	Basic Lab QC
Technician Training	Pre-calibration Checks
Lab Documentation	Calibration checks / Adjustments
General Record Keeping	Repeatability Checks
Equipment Maintenance	
Sample Handling / Preparation	
Temperature Monitoring / Control	
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CDCB Auditing Guidelines for Laboratories

Lab Manager Training	Basic Lab QC
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Lab Documentation	Calibration checks / Adjustments
General Record Keeping	Repeatability Checks
Equipment Maintenance	Zero Drift / Stability
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Sample Handling / Preparation	Pilot sample collection
Temperature Monitoring / Control	Pilot sample Uniformity
Lab Supplies / Reagents	
Analytical Performance	

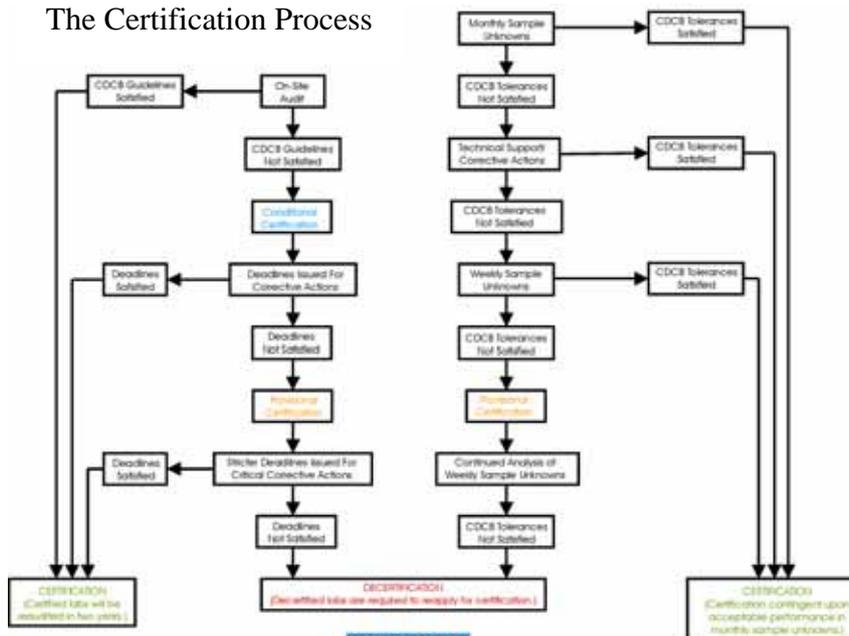


CDCB Auditing Guidelines for Laboratories

Lab Manager Training	Basic Lab QC
Technician Training	Pre-calibration Checks
Lab Documentation	Calibration checks / Adjustments
General Record Keeping	Repeatability Checks
Equipment Maintenance	Zero Drift / Stability
Sample Handling / Preparation	Pilot sample collection
Temperature Monitoring / Control	Pilot sample Uniformity
Lab Supplies / Reagents	Hourly Control Samples
Analytical Performance	



The Certification Process



Monthly Proficiency Testing - "Samples Unknown"



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www.quality-certification.com/Unknown/DHIACertWelcome.asp



Log-In Screen

The screenshot shows a web browser window displaying the log-in page for Quality Certification Services, Inc. The page has a white background with a blue header bar. On the left, there is a logo consisting of a stylized 'Q' and 'S' inside a square. To the right of the logo, the text reads "Quality Certification Services Inc." and "Quality Certification Services, Inc." Below this, there is a horizontal line and the text "Please Enter Your User ID and Password". There are two input fields: "User ID" and "Password". Below the input fields are two buttons: "Login" and "Reset". In the top right corner, there is contact information: "Quality Certification Services, Inc.", "P.O. Box 10100", "421 S. State Street Rd.", "Tucson, AZ 85724", "Phone: 520 528 6125 Fax: 520 528 7675", and "E-mail: qcs@dhiacert.com". At the bottom of the browser window, there is a status bar showing "Internet" and "9,100%".



Main Menu

Quality Certification Services, Inc.

Welcome Lancaster DHIA Lab
Lab Code 824
To Our Web Site

Unknown entry available Monday, June 09, 2008 thru Friday, June 13, 2008 at 11:59:00 PM Eastern

Current Batch Selected is 127
Please Make Selection

Select Batch
Change Lab Info
Manage Email Accounts
Test Instrument Identification
Sample Unknown Entry
OK/No Sample Unknown Entry
Batch Entry Confirmation
Batch Calibration Report
Email Batch Certification Report
Batch Comparison Report
Test Instrument History
Logout

[Enter To Login Page](#)

Internet 100%

CAPITAL
Laboratory Services

Batch Selection

Quality Certification Services, Inc.

Lancaster DHIA Lab
Lab Code 824

Batch 127

Select the Batch from the dropdown list you wish to change to, then Submit

[Enter To Menu Without Selection](#)

Batch 127	6/9/2008
Batch 126	5/12/2008
Batch 125	4/14/2008
Batch 124	3/11/2008
Batch 123	2/11/2008
Batch 122	1/14/2008
Batch 121	12/10/2007
Batch 120	1/10/2007
Batch 119	10/16/2007
Batch 118	9/10/2007
Batch 117	8/13/2007
Batch 116	7/16/2007
Batch 115	6/11/2007
Batch 114	5/14/2007
Batch 113	4/9/2007
Batch 112	3/12/2007
Batch 111	2/12/2007
Batch 110	1/8/2007
Batch 109	12/11/2006
Batch 108	11/13/2006
Batch 107	10/19/2006
Batch 106	9/11/2006
Batch 105	8/14/2006
Batch 104	7/11/2006
Batch 103	6/13/2006
Batch 102	5/8/2006
Batch 101	4/10/2006
Batch 100	3/13/2006
Batch 99	2/13/2006
Batch 98	1/9/2006

Internet 100%

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Laboratory Services

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Batch Comparison Report
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Logout

[Enter To Login Page](#)

Internet 100%

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Laboratory Services

Test Instrument Identification

Quality Certification Services, Inc.

Lancaster DHIA Lab Instruments

8200 A	Subtotal and Process
8200 B	Subtotal and Process
Chertemps 100	Mix Line Wagon
SCC 500 A Blue	Somatic Cell Count
SCC 500 A Red	Somatic Cell Count
SCC 500 B Blue	Somatic Cell Count
SCC 500 B Red	Somatic Cell Count
	Subtotal and Process
	Subtotal and Process

[Submit Changes](#) [Reset](#)

[Enter Without Changing](#)

Internet 100%

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Batch Comparison Report
Test Instrument History
Logout

[Enter To Login Page](#)

Internet 100%

Sample Unknown Entry

Quality Certification Services, Inc.
Lancaster DHIA Lab
Test Entry

Select Offline

<input checked="" type="radio"/>	<input type="radio"/>	B2000 A	Bacterial and Fungal
<input type="radio"/>	<input type="radio"/>	B2000 B	Bacterial and Fungal
<input type="radio"/>	<input type="radio"/>	Chaperon 150	Blia Ultra Nitrogen
<input type="radio"/>	<input type="radio"/>	QC: 500 A 510w	Smectin Cell Count
<input type="radio"/>	<input type="radio"/>	QC: 500 A 90w	Smectin Cell Count
<input type="radio"/>	<input type="radio"/>	QC: 500 B 510w	Smectin Cell Count
<input type="radio"/>	<input type="radio"/>	QC: 500 B 90w	Smectin Cell Count

[Enter To Batch Selection](#)

Internet 100%

Samples Unknown Entry

Quality Certification Services, Inc.
Lancaster DHIA Lab
B2500 A

	Batch/Fail		Problems	
1	17		5	13
2	18		6	14
3	19		7	15
4	20		8	16
5	21		9	17
6	22		10	18
7	23		11	19
8	24		12	20
9				21
10				22
11				23
12				24

Monthly Statement Notes:

[Return To Batch List](#)

Internet 9:10AM



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<input type="button" value="Test Instrument Identification"/>
<input type="button" value="Sample Unknown Entry"/>
<input type="button" value="Offline Sample Unknown Entry"/>
<input type="button" value="Batch Entry Confirmation"/>
<input type="button" value="Batch Certification Report"/>
<input type="button" value="Email Batch Certification Report"/>
<input type="button" value="Batch Comparison Report"/>
<input type="button" value="Test Instrument History"/>
<input type="button" value="Log Off"/>

[Return To Login Page](#)

Internet 9:20AM



Batch Certification Report

B2500 A
Butterfat

Sample Number	Lab/Instrument		Avg Diff	Instr Results		Prec Stats		Accuracy Stats	
	Ref	Inst		Repl	Rep2	Range	SD	Reps	IR Mean
1	3.557	3.564	0.007	3.56	3.58	0.020	0.014	3.570	0.013
2	3.907	3.909	0.002	3.91	3.90	0.010	0.007	3.905	-0.002
3	2.990	2.990	0.000	3.01	3.03	0.020	0.014	3.020	0.030
4	4.153	4.138	-0.015	4.20	4.20	0.000	0.000	4.200	0.047
5	3.547	3.550	0.003	3.57	3.59	0.020	0.014	3.580	0.033
6	3.797	3.782	-0.015	3.78	3.79	0.010	0.007	3.785	-0.012
7	3.707	3.723	0.016	3.74	3.77	0.030	0.021	3.755	0.048
8	3.223	3.224	0.001	3.26	3.26	0.000	0.000	3.260	0.037
9	3.640	3.649	0.009	3.68	3.67	0.010	0.007	3.675	0.035
10	4.297	4.289	-0.008	4.28	4.27	0.010	0.007	4.275	-0.022
11	4.817	4.800	-0.017	4.75	4.76	0.010	0.007	4.755	-0.062
12	4.370	4.382	0.012	4.40	4.39	0.010	0.007	4.395	0.025
		MD	0.000			SDA	0.006	MD	0.014
		SDD	0.011					SDD	0.033



Batch Certification Report

Month	FAT Results		
	MD	SDD	RMD
Jun	-0.011	0.020	0.002
Jul	0.009	0.015	0.008
Aug	-0.027	0.023	0.004
Sep	-0.004	0.011	0.002
Oct	0.005	0.018	-0.002
Nov	0.006	0.023	-0.004
Dec	0.022	0.018	0.002
Jan	-0.015	0.022	-0.002
Feb	-0.037	0.020	-0.004
Mar	0.006	0.020	-0.002
Apr	-0.025	0.018	-0.007
May	0.014	0.033	-0.006

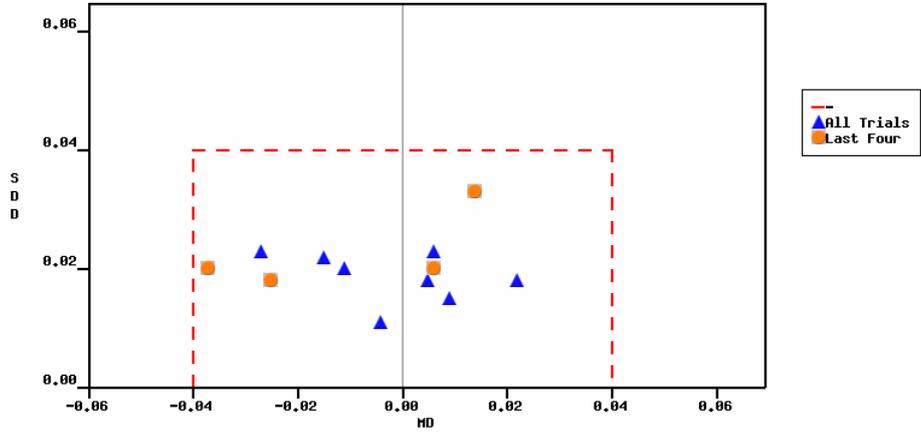
Changed cell here!



Batch Certification Report



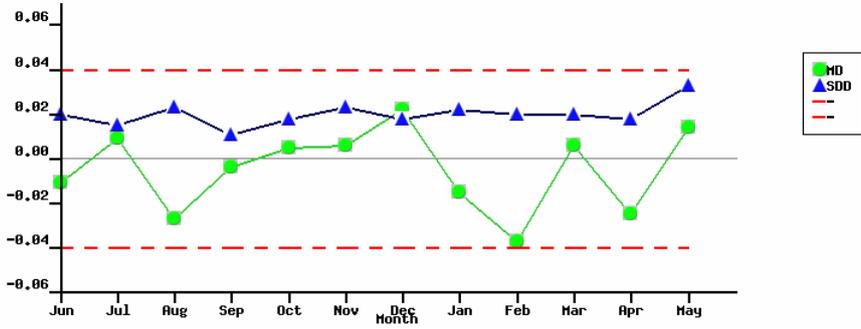
FAT Results



Batch Certification Report



FAT Results



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Batch Comparison Report

