This checklist incorporates references to 'The NELAC Institute' 2016 Standards, where applicable.

Lab ID:		Assessment ID:
Lab Name:		
Assessments Dates:	Ass	sessor Signature:
Name:	Title:	Reports Reviewed:
	_	
At the time of the assessmen	t, a question marked 'yes' indic	ates that no evidence of a deficiency was observed.
Areas Assessed (Check only th	e applicable areas. Specific metho	ods and data reviewed are to be listed/noted on the checklists.):
Quality System Organ Microbiology ADS		Chemistry Radon Radiochemistry Asbestos/Fibers
If method specific checklist(s) w	vas(were) used, indicate its(their) t	title(s) and revision number(s) (e.g., Radon CRM, PCM, BOD/CBOD).
If this was a team assessment a	and you were the Lead Assessor,	indicate the name(s) of your team member(s):

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NYSDOH ELAP Quality Sy	T					
Relevant Aspect of Standards - INTRODUCTION	2016	Y	N	N/A	Codes	Comments
	NELAC					
1. INTRODUCTION						
A. All items identified in the quality system section of this standard are available for on-site						
inspection or data audit.	M2, 1.1				501+	
B. If the lab is operated by the government, does the lab perform commercial testing?						For internal use
Per Subpart 55-3.1 (f), a governmental laboratory is defined as any laboratory operated by the	ELAP 55-3.1				NA	
federal government, a State agency, or an authority, county, city, town, village, water district,	and 3.3					
sewer district or other political subdivision of the State.						
C. Does the laboratory operate mobile facilities?						For internal use
Per Subpart 55-2.1 (c), mobile laboratory means a separate, self-contained mobile facility for						
the examination of environmental samples or specimens as described in subdivision (a) of	ELAP 55-2.1				NA	
this section. A mobile laboratory shall have a fixed address, provided to the department with						
each application for approval, to which proficiency test samples and other correspondence						
may be sent, and shall be managed by a responsible person authorized to receive service of						
process.						
LABORATORY CONDUCT DURING PROFICIENC		and	PT	FREQ	UENCY	
D. The laboratory's management and all analysts ensure that all PT samples are handled (i.e.,	M1, 4.2.2				502+r	
managed, analyzed, and reported) in the same manner as real environmental samples						
utilizing the same staff, methods as used for routine analysis of that analyte, procedures,						
equipment, facilities, and frequency of analysis.					500	
a.) The laboratory does not send any PT sample, or portion of a PT sample, to another	M1, 4.1.5				502a+r	
laboratory for any analysis for which it seeks accreditation, or is accredited,	(a) – (d)					
b.) The laboratory does not knowingly receive any PT sample or portion of a PT sample					502b+r	
from another laboratory for any analysis for which the sending laboratory seeks					JUZDTI	
accreditation, or is accredited,						
c.) The laboratory management & staff does not communicate with any individual at another laboratory (including intralaboratory communication) concerning the PT					502c+r	
sample,						
d.) The laboratory management & staff does not attempt to obtain the assigned value of					502d+r	
any PT sample from the PT Provider, and						
e.) The laboratory maintains copies of all written, printed, & electronic records resulting					502e+r	
from the analysis of any PT sample for 5 years or for as long as is required by the	M1,4.4.1					
applicable regulatory program, whichever is greater.						
Note: These records include bench sheets, instrument strip charts or printouts, data						
calculations, data reports, & PT study report forms used by the laboratory to						
record PT results.						

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Relevant Aspect of Standards - INTRODUCTION	2016	Υ	N	N/A	Codes	Comments
	NELAC	!	ļ			
E. The laboratory shall analyze and report a PT study at least twice per year for each						
accreditation FoPT for which it seeks to maintain accreditation in accordance (with the	M1, 5.2.1.2 (a)				5434r	
exception of Whole Effluent Toxicity Testing) with the following criteria:	, , ,	!	ļ			
a) The closing dates of subsequent PT study samples for a particular accreditation FoPT		!	ļ		5434a	
shall be no more than seven (7) months apart.		!	ļ			
b) The opening date of PT study samples for a particular field of accreditation must be at		!	ļ		5434b	
least seven (7) calendar days after the closing date of a PT study for the same field of			ļ			
accreditation.			<u> </u>			
F. For Whole Effluent Toxicity Testing the laboratory shall demonstrate to the Primary AB that it			_			
has received an acceptable evaluation for at least one (1) PT study to obtain initial			ļ			
accreditation.	M1,5.1.2		ļ		5555	
The study closing date of the most recent successful PT study shall be no more than twelve			ļ			
(12) months prior to obtaining initial accreditation from an AB.			ļ			
The laboratory shall continue to participate in PT studies annually from that point on.			ļ			
G. The laboratory satisfactorily analyzes at least one proficiency test sample per analyte per		$\vdash \vdash$	 -	\vdash	\dagger	
year for each accredited Potable Water method.	EPA SDWA		ļ		507+	
Refer to 40 CFR 141.23(k)(3)(i), 141.24(h)(17)(i)(A), and 141.89(a)(1)(i),			ļ			
USE OF NELAP ACCREDITATION AND C	HANGES TO CER	\TIF	ICA	TIONS	;	
H. The laboratory posts or displays their most recent NELAP accreditation certificate or its						
NELAP-accredited fields of testing in a prominent place in the laboratory facility.	NYS 55-2.2(d)	<u> </u>	<u> </u>	L	503	
I. Any non-accredited tests shall be clearly identified as such to the client when claims of		П	Į –			
accreditation to this Standard are made in the analytical report or in the supporting electronic	M2, 5.10.11(c)		ļ		504r	
or hardcopy deliverables.		<u> </u>	<u> </u>		<u> </u>	
J. The laboratory accompanies the accrediting authority's name and/or the NELAC/NELAP logo	V2M1,8.3.3	Π	ļ		505r	
with at least the phrase "NELAP accredited" and its accreditation number when the			ļ			
accrediting authority's name is used on general literature such as catalogs, advertising,			ļ			
business solicitations, proposals, quotations, laboratory analytical reports or other materials.			<u> </u>			
K. The laboratory uses its NELAP certificate, NELAP accreditation status and/or NELAC/NELAP	V2				506r	
logo in such a manner so as not to imply endorsement by the accrediting authority.	M1,7.9.4.2.6		<u> </u>			
L. If, during the on-site assessment, the laboratory indicates withdrawal for a portion of the]	_	_		
approved scope is desired, a formal request been made to the ELAP Office. (Lab will need to	ELAP Forms		ļ		508	
submit appropriate application form (i.e., 108, 109, 1977, 1978, or 1977CA).)			<u> </u>			
M. If, during the on-site assessment, the laboratory indicates additions be made to its scope, a	ELAP Forms]				
formal request been made to the ELAP Office. (Lab will need to submit appropriate application			ļ		508a	
form (i.e., 108, 109, 1977, 1978, or 1977CA).)			<u> </u>			

Relevant Aspect of Standards - INTRODUCTION	2016	Υ	N	N/A	Codes	Comments
	NELAC					
2. LABORATORY MANAGEMENT ORGANIZATION						
A. The laboratory, or the organization of which it is part, is an entity that can be held legally responsible .	M2, 4.1.1	X			542a+	This is confirmed by the ELAP Office upon application review (initial and renewal).
B. The laboratory accepts responsibility to carry out its environmental testing activities in such a way as to meet the requirements of this standard and to satisfy the needs of the client, the regulatory authorities, or organizations providing recognition.	M2, 4.1.2				5412	
C. The laboratory management system covers work carried out in the laboratory's permanent facilities, at sites away from its permanent facilities, or in associated temporary or mobile facilities.	M2, 4.1.3				542	
D. The laboratory has managerial staff with the authority and resources needed to carry out their duties (e.g., identify departures from the quality system, or from the procedures for performing environmental tests and initiate actions to prevent such departures from the quality system).	M2, 4.1.5 (a)				543	
E. The laboratory has policies and procedures to avoid involvement in any activities that would diminish confidence in its competence, impartiality, judgment, or operational integrity.	M2, 4.1.5 (d)				543a	
F. The laboratory is able to demonstrate that it is impartial and that it has personnel that are free from undue commercial , financial , or other pressures which might influence technical judgment or adversely affect the quality of their work.	M2,4.1.4 note 2; 4.1.5(b)				544	
G. The laboratory does not engage in any activities that may endanger the trust in its independence of judgment and integrity in relation to its testing or calibration activities.	M2,4.1.4 note 2				545	
H. If the laboratory is part of an organization performing activities other than environmental testing, the responsibilities of key personnel in the organization (having an involvement or influence on the environmental testing activities of the laboratory) are defined in order to identify potential conflicts of interest .	M2,4.1.4				5414	
I. Where a laboratory is part of a larger organization, the organizational arrangements such that departments having conflicting interests (e.g., production, financing or commercial marketing) do not adversely influence the laboratory's compliance with the requirements of this standard.	M2,4.1.4 note 1				5414a	
J. The laboratory specifies the responsibility, authority, and interrelationships of all personnel who manage, perform or verify work affecting the quality of tests and/or calibration.	M2, 4.1.5(f)				546	
K. The laboratory defines the organization and management structure of the laboratory, its place in any parent organization, and the relationships between quality management, technical operations and support services	M2, 4.1.5(e)				546ar	

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NYSDOH ELAP Quality Sy		_	_	1	I _	_		
Relevant Aspect of Standards - INTRODUCTION	2016	Y	N	N/A	Codes	Comments		
	NELAC							
L. The laboratory provides adequate supervision of testing and calibration staff, including trainees, by persons familiar with methods and procedures, the purpose of each test or calibration, and the assessment of the results. Note: Refer to deficiencies in section 17 'Personnel', too.	M2, 4.1.5(g)				547			
M. The laboratory has documented certifications that personnel with appropriate educational and/or technical backgrounds perform all tests for which the laboratory is accredited. Note: Refer to deficiencies in section 17 'Personnel', too.	M2, 5.2.1, 5.2.5		549		549			
N. The laboratory has technical management who have overall responsibility for the technical operations and the provision of resources needed to ensure the quality of laboratory operations.	M2, 4.1.5(h)				5410r			
O. The technical director(s) meet the personnel qualifications in the NELAC Standard. Note: ALL CASES – full-time member of the laboratory staff who exercises actual day-to-day supervision of laboratory operations & reporting of results, monitors standards of QA/QC performance, and monitors the validity of analyses performed & data generated in the laboratory to assure reliable data.	M2, 5.2.6.1		For internal use			personnel applications upon Refer to pre-assessment recompetencies. These are a reviewed during the review		ELAP's Technical Staff reviews personnel applications upon receipt. Refer to pre-assessment reports for competencies. These are also reviewed during the review of the assessment package.
P. The laboratory appoints a QA officer (however named) (and/or his/her designee(s)) who has defined responsibility and authority for ensuring that the quality system is implemented and followed at all times. Note: Where staffing is limited, the quality manager may also be the technical director or deputy technical director.	M2,4.1.5(i) M2, 4.1.7.1				5420			
Q. The QA officer (and/or his/her designee(s)) has direct access to the technical directors and to the highest level of management where decisions are made on laboratory policy and resources.	M2, 4.1.5(i)				5421r			
R. The QA officer (and/or his/her designee(s)) serve as the focal point for QA/QC.	M2, 4.1.7.1(a)				5422			
S. The QA officer (and/or his/her designee(s)) take responsibility for the oversight and/or review of quality control data.	M2, 4.1.7.1(a)		5423		5423			
T. The QA officer (and/or his/her designee(s)) have functions independent from laboratory operations for which they have QA oversight.	M2, 4.1.7.1(b)				5424			
U. The QA officer (and/or his/her designee(s)) evaluates data objectively and performs assessments without outside (e.g., managerial) influence.	M2, 4.1.7.1(c)				5425			
V. The QA officer (and/or his/her designee(s)) have documented training and/or experience in QA/QC procedures.	M2, 4.1.7.1(d)				5426			

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Relevant Aspect of Standards - INTRODUCTION	2016	N	N/A	Codes	Comments
	NELAC				
W. The roles and responsibilities of technical management and the QA officer, including their					
responsibility for ensuring compliance with this International Standard, shall be defined in the quality manual.	M2, 4.2.6			5427r	
X. The QA officer (and/or his/her designee(s)) has general knowledge of the analytical test					
methods for which data review is being performed.	M2, 4.1.7.1(e)			5428	
Y. The QA officer (and/or his/her designee(s)): a.) Arrange for or conduct internal audits on the entire technical operation annually, and b.) Notify laboratory management of deficiencies in the quality system and monitor corrective actions in a timely manner Note: The QA officer needs to take responsibility to plan & organize internal audits as required by management & schedule. Refer to Section 14 'Internal Audits'.	M2, 4.1.7.1 (f)-(h) M2, 4.14.1; M2, 4.14.2			5429+	
Z. The QA officer (and/or his/her designee(s)) keeps the quality manual current.	M2, 4.2.8.2			5431	
AA. The laboratory nominates deputies in the case of absence of the technical director or QA					
officer.	M2, 4.1.5(j)			5432	
BB. ELAP has been notified in writing	ELAP 55-				
1) within 30 days of a change in Technical Director	2.6.c.1 and			5439	
OR	55-2.10.d				
2)within 35 days of a temporary leave of the Technical Director	NELAC V1M2			5440	
CO FI AD has been notified in uniting about any about any about a fact that a fact the control of the control o	4.1.7.2. e			3440	Lab was do to have cubus!!!!
CC. ELAP has been notified in writing about any changes in key staff (i.e., Owner, Technical Director, Lead Technical Director, QAO, ADS Operator, and Critical Agents Analyst).	ELAP 55-2.6, 55.2-10, 55-				Lab needs to have submitted application form 107.
Director, Lead Technical Director, QAO, ADS Operator, and Childar Agents Analyst).	2.11, 55-2.13,			5436+	application form for.
	and 55-2.14			0.00	

Relevant Aspect of Standards – LABORATORY QUALITY SYSTEM	2016	Υ	N	N/A	Codes	Comments
	NELAC					
3. LABORATORY QUALITY SYSTEM						
A. The laboratory establishes, implements, and maintains a documented quality system appropriate to the type, range and volume of environmental testing activities it undertakes.	M2,4.2.1				551+	
B. The quality manual and related quality documentation states the laboratory's policies and procedures established in order to meet the requirements of this Standard.						

Relevant Aspect of Standards – LABORATORY QUALITY SYSTEM	2016		N	N/A	Codes	Comments
Relevant Aspect of Standards - EABORATORY GOALITY OF OTEL	NELAC	•		N/A	Oodes	Comments
Note: When the laboratory quality manual contains the necessary requirements, a separate SOP or policy is not required. The laboratory's policies, programs, procedures, & instructions need to be documented to the extent necessary to assure the quality of test results.	M2, 4.2.1;M2, 4.2.8.3(h); M2, 4.2.5				552	
C. The quality documentation is available to, understood by, and implemented by all laboratory personnel.	M2, 4.2.1				553	
D. The laboratory's quality system policies and objectives are defined in a quality manual.	M2, 4.2.8.3(g,h) M2, 4.2.2				5422ar	
E. The quality manual title page lists the following: a.) Document title; b.) Laboratory's full name and address; c.) The name, address), and telephone number of individual(s) responsible for the laboratory; d.) The identification of all major organizational units covered by this quality manual; and the effective date of the version e.) Identification of the laboratory's approved signatories f.) Signature and date of all responsible parties (quality manager, technical manager, laboratory director)	M2, 4.2.8.3 (a-f)				554ar 554br 554cr 554dr 554er	Document name: Please list the effective date & version number of quality manual reviewed: Effective Date: Revision/Version No.:
 F. The quality manual and related quality documentation include a quality policy statement with at least the following: a.) Laboratory management's commitment to good professional practice and to the quality of its environmental testing in servicing its clients; b.) Management's statement of the laboratory's standard of service; c.) The purpose of the management system related to quality; d.) A requirement that all personnel familiarize themselves with the quality documentation and implement the policies and procedures in their work; and e.) The laboratory management's commitment to compliance with this Standard Note: NELAC 5.4.2.2.a) requires that the laboratory define and document its policies and objectives for, and its commitment to accepted laboratory practices and quality of testing services. 	M2, 4.2.2(a-e)				555ar 555br 555cr 555dr 555er	
G. The quality manual and related quality documentation include the following: a.) Table of contents, applicable lists of references and glossaries, and appendices;	M2, 4.2.8.3(i)				5522	
b.) The organization and management structure of the laboratory, its place in any parent organization, and relevant organizational charts ;	M2, 4.1.5(e); M2, 4.2.6; M2, 4.2.8.4(e)				556	

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Relevant Aspect of Standards – LABORATORY QUALITY SYSTEM	2016 NELAC	 N	N/A	Codes	Comments
c.) An outline of the structure of the documentation used in the quality system;	M2, 4.2.5			5423b	
d.) Reference to the supporting procedures including technical procedures;	M2, 4.2.5			5423a	
e.) Procedures to ensure that all records required under this Standard are retained ;	M2, 4.2.8.4.(f) M2,4.13.3			557r	
f.) The laboratory shall retain all records for a minimum of five (5) years from generation of the last entry in the records.	(b)			557a	
g.) The relationship between management, technical operations, support services, and the quality system;	M2, 4.1.5(e)			557b	
h.) Procedures for control and maintenance of documentation through a document control system which ensures that all standard operating procedures, manuals, or documents clearly indicate the time period during which the procedure or document was enforced;	M2, 4.2.8.4(f)			558	
i.) Job descriptions of key staff and reference to the job descriptions of other staff;	M2, 4.2.8.4(g)			5423e	
j.) Procedures for achieving traceability of measurements;	M2, 4.2.8.4(h)			559	
k.) List of all methods under which the laboratory performs its accredited testing;	M2, 4.2.8.4(i)			5510	
I.) Mechanisms for ensuring that the laboratory reviews all new work to ensure that it has the appropriate facilities and resources before commencing such work;	M2, 4.2.8.4(j)			5511	
m.) Policy addressing the use of unique electronic signatures where applicable;	M2, 4.2.8.4(r)			5522z	
n.) Procedures for handling submitted samples ;	M2, 4.2.8.4(k)			5513	
o.) Reference the major equipment and reference measurement standards used as well as the facilities and services used by the laboratory in conducting tests;	M2, 4.2.8.4(b)			5514	
p.) Reference to procedures for calibration, verification and maintenance of equipment;	M2, 4.2.8.4(a)			5515	
q.) Reference to verification practices including inter-laboratory comparisons, and proficiency testing programs;	M2, 4.2.8.4(c)			5516r	
r.) Procedures to be followed for feedback and corrective action whenever testing discrepancies are detected , or when departures from documented policies, procedures occur;	M2, 4.2.8.4(I)			5517	
s.) Management arrangements for exceptionally permitting departures from standard operating procedures, policies or standard specifications;	M2, 4.2.8.4(m)			5517a	

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Relevant Aspect of Standards – LABORATORY QUALITY SYSTEM	2016	Υ	N	N/A	Codes	Comments
	NELAC					
t.) Procedures for dealing with complaints ; Note: This refers to resolution of complaints received from clients or other parties about laboratory activities.	M2, 4.2.8.4(n)				5518	
u.) Processes/procedures for establishing that personnel are adequately experienced in the duties they are expected to carry out and/or receive any needed training;	M2,4.2.8.4 (q)				5519	
v.) Documented policies and procedures to ensure the protection of clients' <pre>confidential information and proprietary rights;</pre> This includes procedures for protecting the electronic storage and transmission of results.	M2, 4.2.8.4(o);M2, 4.1.5(c)				5433a	
w.) Procedures for audits and data review; and	M2, 4.2.8.4(p)				5430	
x.) Procedures for reporting analytical results	M2, 4.2.8.4(d)				5521	
y.) Policy addressing the use of unique electronic signatures	M2,4.2.8.4 (r)				5551	

4. DOCUMENT CONTROL			
 A. The laboratory establishes and maintains procedures to control all documents that form part of its quality system, whether internally generated or from external sources. Note: Documents can be internally generated from external sources & can include policy statements, procedures, tables, charts, textbooks, posters, memoranda, plans, software, etc. These documents may be available as hardcopy or electronic media and can be digital, analog, photographic, or written. 	M2, 4.3.1	5431a	
B. All documents issued to personnel in the laboratory as part of the quality system are reviewed and approved for use by authorized personnel prior to issue.	M2, 4.3.2.1	54321	
C. The laboratory has a master list or equivalent document control procedure which identifies the current version status and distribution of documents. Note: The list shall be readily available to preclude the use of invalid and/or obsolete documents.	M2, 4.3.2.1	54321a	
D. The adopted document control procedure ensures that a.) Authorized editions of appropriate documents are available at all locations where operations essential to the effective functioning of the lab are performed, b.) Documents are periodically reviewed and, where necessary, revised to ensure continuing suitability and compliance with appropriate requirements, c.) Invalid or obsolete documents are promptly removed from all points of issue or use, or otherwise assured against unintended use, and d.) Obsolete documents retained for either legal or knowledge preservation purposes are suitability marked	M2,4.3.2.2 (a-d)	54322a 54322b 54322c 54322d	

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Relevant Aspect of Standards – LABORATORY QUALITY SYSTEM	2016	Υ	N	N/A	Codes	Comments
	NELAC					
E. The quality system documents generated by the laboratory are uniquely identified by including: a.) Date of issue and/or revision identification, b.) Page numbering, c.) The total number of pages or mark to signify the end of the document, and d.) Issuing authority(ies)	M2, 4.3.2.3				54323	
F. Changes to documents are reviewed and approved by the same function that performed the original review unless specifically designated otherwise	M2, 4.3.3.1				54331	
G. The designated personnel have access to pertinent background information upon which to base their review and approval.	M2, 4.3.3.1				54331a	
H. Where practicable, the altered or new text is identified in the document or the appropriate attachments.	M2, 4.3.3.2				54332	
I. The laboratory defines the procedures and authorities if its document control system allows for amendment of documents by hand pending re-issue.	M2, 4.3.3.3				54333	
J. Such amendments are clearly marked, initialed, and dated.	M2, 4.3.3.3				54333b	
K. In the case of hand amendments, a revised document is formally re-issued as soon as practicable.	M2, 4.3.3.3				54333c	
L. Procedures are established to describe how changes in documents maintained in computerized systems are made and controlled.	M2, 4.3.3.4				54334	

Relevant Aspect of Standards – REVIEW OF REQUESTS, TENDERS AND CONTRACTS	2016 NEL AC	Y	N	N/A	Codes	Comments
	NELAC					
5. REVIEW OF REQUESTS, TENDERS AND CONTRACTS						
A. The lab establishes and maintains procedures for review of requests, tenders and contracts.	M2, 4.4.1					
Note: A contract may be any written or oral agreement to provide a customer with testing	M2,4.4.1 Note				5441	
and/or calibration service.	3					
B. The policies and procedures for reviews leading to a contract for environmental testing ensure						
that:	M2, 4.4.1					
a.) The requirements, including the methods to be used, are adequately defined, documented and understood,	(a-c)				5541a	
b.) The laboratory has the capability and resources to meet the requirements, and					5541b	
c.) The appropriate environmental test method is selected and capable of meeting clients'					5541c	
requirements						

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Relevant Aspect of Standards – REVIEW OF REQUESTS, TENDERS AND CONTRACTS	2016	 N	N/A	Codes	Comments
	NELAC				
C. The laboratory informs the client of the results of the review if it indicates any potential conflict, deficiency, lack of appropriate accreditation status, or inability on the laboratory's part to complete the clients work	M2, 4.4.1			5541b1r	
D. The reviews of capability establishes that the laboratory possesses the necessary physical, personnel and information resources, and that the laboratory's personnel have the skills and expertise necessary for the performance of the environmental tests in question.	M2, 4.4.1 Note 2			5541b2r	
 E. Any differences between the request or tender and the contract are resolved before any work commences. Note: The contract shall be acceptable to both the laboratory and the client. A contract may be any oral or written agreement to provide the client with environmental testing services. 	M2, 4.4.1			54411r	
F. The laboratory maintains records of reviews, including any significant changes.	M2, 4.4.2			5442	
G. The laboratory maintains records of pertinent discussions with a client relating to the client's requirements or the results of the work during the period of execution of the contract.	M2, 4.4.2			55421	
 H. Review records are adequate for the complexity of the review such that: a.) For review of routine or other simple tasks, the date and initials of the person in the lab responsible for carrying out the contracted work are considered adequate; b.) For repetitive routine tasks, the review need be made only at the initial enquiry stage or on granting of the contract for ongoing routine work performed under a general agreement with the client, provided that the client's requirements do not change; and c.) For new, complex or advanced environmental testing a more comprehensive record should be maintained. 	M2, 4.4.2 Note			54422ar 54422br 54422cr	
I. The reviews covers any work that is subcontracted by the laboratory.	M2, 4.4.3			5443	
J. The client is informed of any deviation from the contract.	M2, 4.4.4			5444	
K. If a contract needs to be amended after work has commenced, the same contract review process is repeated, and any amendments are communicated to all affected personnel.	M2, 4.4.5			5445	
L. The laboratory reports any suspension of accreditation, revocation or accreditation, or voluntary withdrawal of accreditation to the client.	V2,M1,8.3.2 (e)			54451+r	

Relevant Aspect of Standards - SUBCONTRACTING	2016 NELAC	Y N N/A	Codes	Comments
6. SUBCONTRACTING				
A. The laboratory has records to indicate that it advises the client in writing of its intention to subcontract any portion of the testing to another party, and when appropriate, gain the approval of the customer, preferably in writing.	M2, 4.5.2		5141	

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Relevant Aspect of Standards - SUBCONTRACTING	2016 NELAC	Y	N	N/A	Codes	Comments
B. Where a laboratory sub-contracts any part of the testing covered under NELAP, records indicate that this work is placed with a laboratory accredited under NELAP for the tests to be performed or with a laboratory that meets applicable statutory and regulatory requirements for performing the tests and submitting results of tests performed.	M2, 4.5.1; M2, 4.5.5				5142	
C. Non-NELAC work is performed by a subcontracted laboratory and clearly identified in the laboratory report. Note: The laboratory must indicate in final reports the laboratory performing subcontracted work. Refer to deficiency in section 25 'Reports' (i.e., 5138 and/or 5134f).	M2, 5.10.6				5143r	
D. The lab accepts responsibility for subcontractor's work, except in the case where the client or a regulatory authority specifies which subcontractor to be used.	M2, 4.5.3				5453	
E. The lab maintains a register of all subcontractors that it uses for environmental tests and a record of the evidence (certificates of approval). Note: The certificates on record need to be current.	M2, 4.5.4				5454	

Relevant Aspect of Standards – PURCHASING SERVICES AND SUPPLIES	2016	Y	N N/	A Cod	des Comments
	NELAC				
7. PURCHASING SERVICES AND SUPPLIES					
A. Documented policies and procedures exist for the selection and purchasing of services and					
supplies used that affect the quality of environmental testing operations of the laboratory.	M2, 4.6.1			546	61
B. Documented procedures exist for the purchase, reception and storage of consumable					
materials used for the technical operations of the laboratory.	M2, 4.6.1			510	024
C. The laboratory ensures that purchased supplies, reagents, and consumable materials are not					
used until they have been inspected, calibrated or otherwise verified as complying with any	M2, 4.6.2			515	53
standard specifications relevant to the calibrations or tests concerned.					
D. The services, and supplies used comply with specified requirements.	M2, 4.6.2			546	32a
E. Records are maintained of actions taken to check compliance.	M2, 4.6.2			546	62r
F. Purchasing documents, containing data describing the services and supplies ordered, are					
reviewed and approved for technical content prior to release.	M2, 4.6.3			546	63
G. The laboratory evaluates suppliers of critical consumables, supplies and services which affect					
the quality of environmental testing.	M2, 4.6.4			546	64a
H. The laboratory maintains records of evaluations of all suppliers from whom it obtains support					
services or supplies required for tests and list those approved.	M2, 4.6.4			546	64

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Relevant Aspect of Standards – SERVICE TO THE CLIENT	2016 NELAC	Y	N	N/A	Codes	Comments
8. SERVICE TO THE CLIENT	ı	_l		ı		
A. The lab offers clients or their representatives' cooperation to clarify the client's request and to						
monitor the lab's performance in relation to the work performed, provided that the lab ensures						
confidentiality to other clients.						
Note: Customers value the maintenance of good communication, advice and guidance in	M2, 4.7.1				547A	
technical matters, and opinions and interpretations based on results. Communication						
with the customer, especially in large assignments, should be maintained throughout						
the work. The laboratory should inform the customer of any delays or major deviations						
in the performance of the tests and/or calibrations.						
B. The laboratory seeks feedback, both positive and negative, from its customers.	M2, 4.7.2				547B	•
C. The laboratory uses and analyzes the customer feedback to improve the management system,	M2, 4.7.2				547C	•
testing and calibration activities, and customer service.						
Delegant Assess of Otto Joseph COMPLAINTO	0046		NI.	A1/A	0.4	0
Relevant Aspect of Standards - COMPLAINTS	2016	Y	N	N/A	Codes	Comments
	NELAC					
9. COMPLAINTS	I	1			1	
A. The laboratory has documented policies and procedures for the resolution of complaints					5.47D	
received from clients or other parties.	M2, 4.8				547D	
B. Records are maintained of all complaints and of the investigations and corrective actions					F 47F	
taken by the laboratory.	M2, 4.8				547E	
D. I. (A. (CO) I. I. CONTROL OF NONCONFORMING WORK	0040			A1/A		
Relevant Aspect of Standards – CONTROL OF NONCONFORMING WORK	2016	Y	N	N/A	Codes	Comments
	NELAC					
10. CONTROL OF NONCONFORMING WORK	I	1			1	
A. The laboratory has a policy and procedures that are implemented when any aspect of its						
environmental testing work, or the result of this work, do not conform to its own procedures or	M2, 4.9.1				5491	
agreed requirements of the client.						
B. The policy and procedures ensure that:					5404	
a.) The responsibilities and authorities for the management of nonconforming work are	M2, 4.9.1(a-e)				5491a	
designated and actions are defined and taken when nonconforming work is identified;					5491b	
b.) An evaluation of the significance of the nonconforming work is made;					34310	
c.) Corrective actions are taken immediately, together with any decision about the acceptability					5491c	
of nonconforming work;						
d.) Where necessary, the client is notified, and work is recalled; and					5491d	

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Relevant Aspect of Standards – CONTROL OF NONCONFORMING WORK	2016 NELAC	Y	N	N/A	Codes	Comments
e.) The responsibility for authorizing the resumption of work is defined.					5491e	
C. The laboratory implements corrective action procedures when the evaluation indicates that the nonconforming work could recur or that there is doubt about the compliance of the laboratory's operations with its own policies and procedures.	M2, 4.9.2				5492	

Relevant Aspect of Standards – CORRECTIVE ACTION	2016 NELAC	YN	N/A	Codes	Comments
11. CORRECTIVE ACTION	NELAO				
A. The laboratory has established a corrective action policy and procedure.	M2, 4.11.1			54101	
B. The laboratory designates appropriate authorities for implementing corrective action when nonconforming work or departures from policies and procedures in the quality system or technical operations have been identified.	M2, 4.11.1			54101a	
C. The corrective action procedure starts with an investigation of root cause(s) of the problem.	M2, 4.11.2			54102	
D. The laboratory identifies potential corrective actions and selects and implements the action(s) most likely to eliminate the problem and to prevent recurrence.	M2, 4.11.3			54103	
E. Corrective actions are appropriate in degree to the magnitude and risk of the problem.	M2, 4.11.3			54103a	
F. The laboratory documents and implements any required changes resulting from corrective action investigations.	M2, 4.11.3			54103b	
G. The laboratory monitors the results to ensure that the corrective actions taken have been effective.	M2, 4.11.4			54104	
H. The laboratory ensures that appropriate areas of activity, identified or doubted as nonconforming or departure from policies and procedures, are promptly audited.	M2, 4.11.5			54105	
I. The laboratory has documented procedures to be followed when there are departures from documented policies, procedures, and QC occur.	M2, 4.11.6			5532+	
 J. The procedures to be followed when there is a departure from documented policies, procedures, and QC: a.) Identify the individuals responsible for assessing each QC data type; 	M2, 4.11.6			5533a	
b.) Identify the individuals responsible for initiating and/or recommending corrective actions; c.) Define how the analyst should treat the data set if the associated QC measurements are	M2, 4.11.6(a)			5533b 5533cr	
unacceptable; d.) Specify how out-of-control situations and subsequent corrective actions are to be documented; and	M2, 4.11.6(b)			5533dr	
e.) Specify procedures for management (including the QA officer) to review corrective action reports.	M2, 4.11			5533er	

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Relevant Aspect of Standards – PREVENTIVE ACTION AND IMPROVEMENT	2016	Y	N	N/A	Codes	Comments
	NELAC					
12. PREVENTIVE ACTION AND IMPROVEMENT					·	
A. The laboratory has a pro-active process to identifying opportunities for improvement.	M2,4.12.2 Note 1				5411ar	
B. Needed improvements and potential sources of non-conformances, either technical or concerning the quality system are identified.	M2, 4.12.1				54111	
C. The laboratory develops implements and monitors action plans where preventive action is required.	M2, 4.12.1				54111a	
D. Procedures for preventive action include the initiation of such actions and application of controls to ensure that they are effective.	M2, 4.12.2				54112	
E. The laboratory continually improves the effectiveness of its management system through the use of the quality policy, quality objectives, audit responses, analysis of data, corrective and preventive actions, and management reviews.	M2, 4.10				54112a	

Relevant Aspect of Standards – CONTROL OF RECORDS	2016 NELAC	Y	N	N/A	Codes	Comments
13. CONTROL OF RECORDS	NELAU					
A. The laboratory maintains a record system to suit its particular circumstances and comply with any applicable regulations. Note: Records may be in any media such as hardcopy or electronic media.	M2, 4.13.1.2				5121r	
B. The laboratory establishes and maintains procedures for identification, collection, indexing, access, filing, storage, maintenance and disposal of quality and technical records.	M2, 4.13.1.1				541211	
C. Quality records include reports from internal audits and management reviews as well as records of corrective and preventive actions.	M2, 4.13.1.1				541211a	
D. The system produces unequivocal, accurate records, which document all laboratory activities.	M2, 4.13.3(a)				5122	
 E. The laboratory retains on record all original observations, calculations and derived data, calibration records, a copy of the test report including hardware and software necessary for the historical reconstruction of electronic data for a minimum of five years. Records related to Potable Water chemical analyses are retained for a minimum of ten years (twelve years for Pb and Cu). Note: The applicable NYS and federal regulations are as follows: NYS Part 55-2.4 (a) (3), 55-2.13 (d) (3) & (7), 5-1.49 (f), and 5-1.72 (d); and 40 CFR 141.33. 	M2, 4.13.3(a- b)				5123 5123a	
F. The laboratory has established retention times of records.	M2, 4.13.1.2				5123b	
G. All records, certificates and reports are held secure and in confidence to the client.	M2, 4.13.1.3				51213	

Relevant Aspect of Standards – CONTROL OF RECORDS	2016	Υ	N	N/A	Codes	Comments
	NELAC					
H. NELAP related records are available to the accrediting authority.	M2, 4.13.3(c)				51214	
I. All records are legible.	M2, 4.13.1.2					
					541212	
J. The record keeping system allows historical reconstruction of all laboratory activities that	M2, 4.13.3					
produced the resultant sample analytical data.	M2, 4.13.3(f)				5124	
K. The laboratory has a written SOP for how the laboratory will carry out legal chain of custody if						
the client specifies that a sample will be used for evidentiary purposes.	M2, 5.8.8				5124a	
L. The laboratory has procedures to prevent unauthorized access to or amendment of records	M2, 4.13.1.4					
stored electronically.					541214	
M. Records that are stored or generated by computers or personal computers (PCS) have	M2, 4.13.1.4					
procedures to protect and back-up records.					51216	
N. The history of the sample is readily understood through the documentation including inter-	M2, 4.13.3(a)					
laboratory transfers of samples and/or extracts.					5125	
O. The records include the identity of personnel involved in sampling, preparation, calibration or	M2, 4.13.2.1					
testing and checking of results.					5126	
P. All information relating to the laboratory facilities, equipment, analytical methods, and related						
laboratory activities, such as sample receipt, sample preparation, or data verification are	M2, 4.13.3(a)				5127	
documented.						
Q. Records are stored and retained in such a way that they are readily retrievable in						
facilities that provide a suitable environment to prevent damage or deterioration and to	M2, 4.13.1.2				5128	
prevent loss.	M2, 4.13.3(d)				3120	
Note: The laboratory needs to have the supportive hardware & software necessary for data						
retrieval. Refer to deficiency 51219 in this section.	MO 440 0(-)				54040	
R. All generated data, except those that are generated by automated data collection systems,	M2, 4.13.3(g)				51210	
recorded directly, promptly and legibly in permanent ink.	MO 4 42 0 2				EAAOAEE	
S. Entries to electronically maintained records are changed so as to not erase or overwrite the files.	M2, 4.13.2.3				541215f	
	M2, 4.13.2.3				51215fa	
T. The individual making the change to electronically maintained records are identified.					31213f8	
U. All changes to records entries are signed or initialed by responsible staff with the reason for	M2, 4.13.2.3				5129	
the signature or initials clearly indicated in the records. V. Entries in records are not obliterated by methods such as erasures, overwritten files or	M2, 4.13.2.3				3123	
markings.	IVIZ, 4. I J.Z.J				51211	
W. All corrections to record-keeping errors are made by one line marked through the error and	M2, 4.13.2.3	\vdash			31211	
the individual making the correction signing (or initialing) and dating the correction.	M2,					
Note: When mistakes occur in the records, each mistake is crossed out, not erased/deleted or	4.13.3(g)(i)				51212	

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Relevant Aspect of Standards – CONTROL OF RECORDS	2016		N	N/A	Codes	Comments
Relevant Aspect of Standards - CONTROL OF RECORDS	NELAC	'	14	IN/A	Codes	Comments
	NELAC					
made illegible, with correct value entered alongside.						
X. The records for each environmental test contain sufficient information to facilitate, if possible,					F44004	
identification of factors affecting the uncertainty and to enable the test to be repeated under					541221	
conditions as close as possible to the original.						
a.) The laboratory retains records of original observations, derived data, & sufficient	M2, 4.13.2.1				541221a	
information to establish an audit trail, calibration records, staff records, & copy of each					J41ZZ1a	
test report issued for a defined period.						
b.) The records include the identity of personnel responsible for the sampling, performance of environmental test, and checking of results.					541221b	
Note: Refer to deficiency 51223f for analyst identification and 51222h for data review &						
cross-checking in this section.						
Y. Observations, data and calculations are recorded at the time they are made.	M2, 4.13.2.2	1			541222	
Z. Observations, data and calculations are recorded at the tine they are made.	M2, 4.13.2.2				541222a	
·	,					
AA. In the case of records stored electronically, equivalent measures are taken to avoid loss or	M2, 4.13.2.3				541223	
change of original data.	MO					
BB. When corrections are made due to reasons other than transcription errors, the laboratory	M2,				544222a	
documents the reason for the correction.	4.13.3(g)(ii)				541223a	
CC. The laboratory has a record management system for control of laboratory notebooks;	MO 4 40 4				54047	
instrument logbooks; standards logbooks; and records for data reduction, validation storage	M2, 4.13.1				51217	
and reporting.	NO 4 40 0/)				54040	
DD. Access to archived information is documented with an access log.	M2, 4.13.3(e)				51218	
EE. Archived information is stored in a suitable environment to protect from damage and	M2, 4.13.1.2				54040	
deterioration and to protect from loss.					51219	
FF. The laboratory has a plan to ensure that the records are maintained or transferred according	M2, 4.13.3(h)					
to the clients' instructions and following regulatory and state requirements in the event that a					51220	
laboratory transfers ownership or goes out of business.						
GG . The laboratory retains records of the following procedures to which a sample is subjected						
while it is in the lab's possession:					E4004 -	
a.) Sample preservation, appropriateness of sample container, & compliance with holding					51221a	
time requirements, b.) Sample identification, receipt, acceptance or rejection, & log-in,	M2, 4.13.3(a)				51221b	
c.) Sample identification, receipt, acceptance of rejection, & log-in, c.) Sample storage & tracking including shipping receipts, transmittal forms, and chain-of-					51221b	
custody forms,					JIZZIC	
d.) Documented procedures for receipt, retention, or safe disposal of test items that includes					51221d	
all provisions necessary to protect the integrity of the laboratory.					JILLIG	
e) laboratory facilities, equipment, and analytical methods.					51221e	
-/	l .	<u> </u>		1		

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Relevant Aspect of Standards – CONTROL OF RECORDS	2016		N N	N/A	Codes	Comments
Relevant Aspect of Standards - CONTROL OF RECORDS	NELAC	I	IN	IN/A	Codes	Comments
UU The leberatory retaine:	NELAC					
 HH. The laboratory retains: a.) All original raw data, whether hard copy or electronic, for calibrations, sample analyses, & quality control measures, b.) A written description or reference to the specific test method used, c.) Copies of final reports, d.) Archived standard operating procedures, e.) Correspondence relating to its activities for a specific project, f.) All corrective action reports, audits, & audit response, g.) Proficiency test results & raw data, and h.) Records of data review, verification, & cross-checking procedures Note: Raw data includes analyst work sheets and data output records (chromatograms, strip charts, & other instrument readouts). With respect to written description or reference to the specific test method used, it includes a description of specific computational steps 	M2, 4.13.2.1, M2 4.13.3(f) (i-ii)				51222a+ 51222br 51222c 51222d 51222e 51222f 51222gr 51222h	
 used to translate parametric observations into reportable analytical values. II. Strip charts, tabular printouts, computer data files, analytical notebooks, and run logs include: a.) Laboratory sample ID code, b.) Date of analysis, and date and time of analysis if the hold time is 72 hours or less or when time critical steps are included in the analysis (e.g., extractions and incubations), c.) Instrumentation identification and instrument operating conditions/parameters (or reference to such data), d.) Analysis type (method or technique) e.) All calculations (e.g., automated and manual integrations), f.) Analyst's or operator's initials/signature, g.) Sample preparation (including cleanup & separation protocols, incubation periods or subcultures, ID codes, volumes, weights, instrument printouts, meter readings, calculations, & reagents used), h.) Sample analysis (test results), i.) Standard & reagent origin, receipt, preparation, & use, j.) Calibration criteria, frequency, & acceptance criteria, k.) Data & statistical calculations, review, confirmation, interpretation, assessment, & reporting conventions, l.) Quality control protocols & assessment, m.) Electronic data security, software documentation, software & hardware audits, backups of automated data entries, records of any changes to automated data entries, and n.) Method performance criteria including expected quality control requirements 	M2, 4.13.3 (f)(iii – xvi)				51223a 51223b 51223c 51223d 51223e 51223f 51223f 51223j 51223j 51223k 51223k 51223m 51223m	

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Relevant Aspect of Standards – CONTROL OF RECORDS	2016	Υ	N	N/A	Codes	Comments
	NELAC					
JJ. The following administrative records are maintained:	M2, 4.13.3				51224a	
a.) Personnel qualifications, experience and training records,	(f)(xviii)				51224b	
 b.) Initial and continuing demonstration of proficiency for each analyst, and c.) A log of names, initials and signatures for all individuals who are responsible for signing or initialing any laboratory record 	M2, 4.13.3 (f)(xix)				51224c	

Relevant Aspect of Standards – INTERNAL AUDITS	2016 NELAC	Y	N	N/A	Codes	Comments
14. INTERNAL AUDITS	NLLAG					
A. The laboratory conducts internal audits of its activities to verify that its operations continue to						
comply with the requirements of the quality system and this standard with a predetermined	M2, 4.14.1;					
schedule and procedure, and at least annually.	M2, 4.14.5(c)				54131	
Note: Refer to deficiency 5429 in section 2 'Laboratory Management Organization', too.						
B. The internal audit program addresses all elements of the quality system, including testing						
activities.	M2, 4.14.1				54131a	
C. Personnel audit their own activities only when it can be demonstrated that an effective audit						
will be carried out.	M2, 4.14.1				54131b	
D. The internal audit is conducted by personnel trained and qualified as auditors who, wherever						
possible, are independent of the activities being audited (e.g., QA Officer).	M2, 4.14.1				5523	
E. Timely corrective action is taken when audit findings cast doubt on the correctness or						
validity of the calibrations or test results	M2, 4.14.2				5524	
F. Clients are notified in a timely manner , in writing, when their work is affected by the findings						
from an internal audit.	M2, 4.14.2				5525	
G. The laboratory has a policy in its Quality Manual that specifies the time frame for notifying a	M2, 4.14.5(a)					
client of events that cast doubt on the validity of the results.					5525a	
H. All audits and review findings and any corrective actions that arise from them are recorded.	M2, 4.14.3				5529+	
I. The laboratory management ensures that corrective actions arising from internal audits and	M2, 4.14.5(b)					
management reviews are discharged within the agreed time frame as indicated in the quality manual and/or SOPs.	M2, 4.15.2				5530	
J. The implementation and effectiveness of the corrective action taken is verified and recorded						
from follow-up audit activities.	M2, 4.14.4				54134	

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Relevant Aspect of Standards – MANAGERIAL REVIEWS	2016	Υ		N/A	Codes	Comments
	NELAC					
15. MANAGERIAL REVIEWS		1 1		ı	<u>l</u>	
A. The laboratory has a procedure for the annual management review of the quality system and it maintains records of review findings and actions.	M2, 4.15.2				5526	
B. An annual review of the quality system is completed by management to evaluate its continuing suitability and effectiveness and make any necessary changes or improvements.	M2, 4.15.1; M2, 4.15.3				5527+	
C. The annual review considers: a.) The suitability of policies and procedures; b.) Reports from managerial and supervisorial personnel; c.) The outcome of recent internal audits; d.) Corrective and preventive actions; e.) Assessment by external bodies; f.) The results of interlaboratory comparisons or proficiency tests; g.) Any changes in the volume and type of work undertaken; h.) Feedback from clients; i.) Complaints; j.) Other relevant factors, such as quality control activities, resources and staff training. k) Recommendations for improvement	M2, 4.15.1				5528a 5528b 5528c 5528d 5528e 5528f 5528g 5528h 5528i 5528j 5528k	
Relevant Aspect of Standards – LABORATORY TECHNICAL REQUIREMENTS	2016 NELAC	Y	N	N/A	Codes	Comments
16. LABORATORY TECHNICAL REQUIREMENTS		1 1		1	<u>'</u>	
A. The laboratory takes into account all factors in developing environmental tests & procedures (i.e., human factors, environmental test methods & method validation, equipment, measurement traceability, sampling, and handling of samples).	M2, 5.1.1; M2, 5.1.2				5526a	
B. The laboratory takes into account all factors (listed above) in the training & qualification of personnel.	M2, 5.1.2				5526b	
C. The laboratory considers all factors (listed above) in the selection & calibration of the equipment it uses.	M2, 5.1.2				5526c	
Relevant Aspect of Standards – PERSONNEL, INCLUDING DATA INTEGRITY PROCEDURES AND TRAINING	2016 NELAC	Y	N	N/A	Codes	Comments
17. PERSONNEL, INCLUDING DATA INTEGRITY PROCEDURES AND TRAINING						
A. The laboratory maintains records to indicate that it has sufficient personnel, having the necessary education, training, technical knowledge and experience for their assigned functions.	M2, 5.2.1				561	

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Relevant Aspect of Standards – PERSONNEL, INCLUDING DATA INTEGRITY PROCEDURES AND TRAINING	2016 NELAC	Y	N	N/A	Codes	Comments
Note: Refer to deficiencies 547 and 549 in section 2 'Laboratory Management Organization',	1122/10					
too.						
B. The laboratory management ensures the competence of all who operate specific equipment,	M2, 5.2.1				561a	
perform environmental tests, evaluate results, and sign test reports.						
C. Personnel are responsible for complying with all quality assurance/quality control	M2, 4.2.2(d)					
requirements that pertain to their organizational/technical function.					562	
D. Each technical staff member has a combination of experience and education to adequately						
demonstrate						
a.) A specific knowledge of their particular function; and	M2, 5.2.1				563	
b.) A general knowledge of laboratory operations, analytical methods, QA/QC procedures and						
records management.						
Note: Personnel performing specific tasks shall be qualified on the basis of appropriate						
education, training, experience, and/or demonstrated skills.	MO 5 0 4	-			EE04 -	
E. Laboratory management ensures that staff who are undergoing training are provided with appropriate supervision.	M2, 5.2.1				5521a	
F. Laboratory management formulate goals with respect to the education, training and skills for	M2, 5.2.2				5521b	
laboratory personnel.	1012, J.Z.Z				33210	
G. The laboratory has a policy and procedures for identifying training needs and providing	M2, 5.2.2				5521c	
training of personnel.	, -					
H. The training program is relevant to the present and anticipated tasks of the laboratory.	M2, 5.2.2				5522a	
I. The effectiveness of the training program is evaluated.	M2,5.2.2				5522b	
J. If the laboratory uses personnel under contract to the laboratory or if additional technical and						
key support personnel are used, the laboratory ensures that such personnel are supervised	M2, 5.2.3				5523a	
and competent and that they work in accordance with the laboratory's quality system.						
K. The laboratory maintains current job descriptions for all personnel who manage, perform,	M2, 5.2.4				5524a	
or verify work affecting the quality of testing.						
L. Laboratory management authorizes specific personnel to						
a.) Perform particular types of sampling,					55251	
b.) Environmental test and/or calibration,	M2, 5.2.5				55252	
c.) Issue reports, d.) Give opinions and interpretations, and					55253 55254	
e.) Operate particular types of equipment					55254 55255	
		_			33233	
M. The laboratory maintains records , with dates , of the relevant authorizations, competence,						
educational and professional qualifications, training, skills, and experience for all technical and contracted personnel	M2 5 2 5				5525b	
Note: The records shall also include demonstrated proficiency for each laboratory test method.	M2, 5.2.5				JJZJU	
11010. The 1000100 shall also include demonstrated proficiency for each laboratory test method.			l	1		

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Relevant Aspect of Standards – PERSONNEL, INCLUDING DATA INTEGRITY	2016	Y		N/A	Codes	Comments
PROCEDURES AND TRAINING		'	IN	IN/A	Codes	Comments
	NELAC					
N. There is a defined minimum level of qualification, experience, and skills (including basic lab					-04	
skills such as using a balance, colony counting, aseptic or quantitative techniques) necessary	M2, 5.2.4				564	
for all positions in the lab.						
O. The quality manual defines in detail the data integrity procedures, including:						
a.) Data integrity training,	M2, 4.2.8.1;					
b.) Signed data integrity documentation for all laboratory employees,	M2, 5.2.7				5520	
c.) In-depth periodic monitoring of data integrity, and						
d.) Data integrity procedure documentation(subject to document control procedure)						
P. The laboratory management provides a mechanism for confidential reporting of data integrity						
issues within the laboratory.	M2, 4.2.8.1(a)				54231	
A primary element of this mechanism is to assure confidentiality & a receptive environment in						
which all employees may privately discuss ethical issues or reports items of ethical concern.						
Q. In instances of ethical concern, the mechanism includes a process whereby laboratory	M2, 4.2.8.1(b)					
management are to be informed of any further detailed investigations.					54232	
R. The data integrity procedures are signed and dated by senior management.	M2, 4.2.8.1				54155	
S. The data integrity procedures are annually reviewed and updated by management.	M2, 4.2.8.1				54157	
T. These procedures and the associated implementation records are properly maintained and						
made available for assessor review.	M2, 4.2.8.1				54156	
U. Reviews are conducted with respect to any evidence of inappropriate actions or vulnerabilities						
related to data integrity.	M2, 4.16				54151	
V. The discovery of potential issues is handled in a confidential manner until such time as a						
follow-up evaluation, full investigation, or other appropriate actions have been completed and	M2, 4.16				54152	
the issues clarified.						
W. All investigations that result in findings of inappropriate activity are documented including any						
disciplinary actions involved, corrective actions taken, and all appropriate notifications of	M2, 4.16				54153+	
clients.						
X. Senior managers acknowledge their support of these procedures by:						
1) Upholding the spirit and intent of the organizations data integrity procedures, and	M2, 5.2.7				54158	
2) Effectively implementing the specific requirements of the procedures.						
Y. Data integrity training includes:						
a.) Topics covered are documented in writing and provided to all trainees,					5527a	
b.) Organizational mission and its relationship to the critical need for honesty and full					5527b	
disclosure in all analytical reporting,						
c.) How and when to report data integrity issues,					5527c	
d.) Record keeping,					5527d	

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Relevant Aspect of Standards – PERSONNEL, INCLUDING DATA INTEGRITY	2016	_	N	N/A	Codes	Comments
PROCEDURES AND TRAINING		ī	IN	N/A	Codes	Comments
	NELAC					
e.) Employees are required to understand that any infractions of lab data integrity procedures					5527e	
will result in a detailed investigation that could lead to very serious consequences including	M2, 5.2.7 and					
immediate termination, or civil/criminal prosecution,	5.2.7(a-e)					
f.) Specific examples of breaches of ethical behavior, such as improper data manipulations,					5527f	
adjustments of instrument time clocks, and inappropriate changes in concentrations of						
standards.						
g.) Discussion regarding all data integrity(DI) procedures, DI training, in-depth data					5527g	
monitoring, and DI procedure documentation, and						
h.) Requirement for emphasis on the importance of proper written narration on the part of the					<i>EE</i> 076	
analyst with respect to those cases where analytical data may be useful, but are in some					5527h	
way partially deficient.						
i.) The data integrity training and annual refresher training needs to be documented					5527i	
demonstrating that all staff have participated and understood their obligations by signing					33271	
an attendance sheet or other forms of documentation.						
Z. Laboratory management ensures that training records are kept up to date for all technical						
staff that include:						
a.) Evidence that the employee has read, understands, and is using the latest version of the	M2, 5.2.5				566a	
lab's in-house quality documentation, which relates to his/her job responsibilities;						
b.) Training courses or workshops on specific equipment, analytical techniques, or lab					566b	
procedures;	M2, 5.2.2					
c.) Annual training course in data integrity procedures including the potential punishments &	,				566c	
penalties for violations;	M2, 5.2.7					
Note: The training is to be a formal part of new employee orientation and annually	,					
thereafter.	M2, 5.2.7				500 1	
d.) Annual signature for each employee demonstrating they have read; acknowledge, and	, -				566d	
understand their personal & legal data integrity responsibilities including potential	M2, 5.2.5					
punishments & penalties for violations; and	, -				566er	
e.) Documentation certifying that the employee has read, understands, and agrees to use the latest version of a test method used.	M2,4.3.2.1				ooer	
Note: The most recent version is the approved method or SOP defined by the laboratory's	,,					
1,1						
document control system.	M2, 4.13.2				568	
AA. The laboratory documents all analytical and operational activities of the laboratory.	· · · · · · · · · · · · · · · · · · ·				900	
BB. The laboratory management ensures supervision of all personnel employed by the	M2, 4.1.5(g)				EEOC.	
laboratory.	110 1 1 - 11				5526e	
CC. The laboratory management ensures the quality of all data reported by the laboratory.	M2,4.1.5(i)				5610r	

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Relevant Aspect of Standards – PHYSCIAL FACILITIES (ACCOMMODATION & ENVIRONMENTAL CONDITIONS)	2016 NELAC	Y	N	N/A	Codes	Comments
18. PHYSICAL FACILITIES (ACCOMMODATION & ENVIRONMENTAL CONDITIONS)						
A. The laboratory accommodations, test areas, energy sources, lighting, and environmental.						
conditions facilitate proper performance of tests.	M2, 5.3.1				571	
Note: This also includes heating and ventilation.						
B. The environment in which these activities take place are such that the results are not	M2, 5.3.1				572	
invalidated, or the required accuracy of measurement is not adversely affected.						
C. The technical requirements for accommodation and environmental conditions that can affect	M2, 5.3.1				55311	
the results of tests are documented.						
D. The environment provides for the effective monitoring, control and recording of						
environmental conditions, as appropriate (such as biological sterility, dust, electromagnetic	M2, 5.3.2				573	
interference, humidity, mains voltage, temperature, and sound & vibration levels).						
E. Tests are stopped when the environmental conditions jeopardize the results.	M2, 5.3.2				55321	
F. There are effective separations between neighboring areas when the activities therein are						
incompatible (including culture handling or incubation areas and volatile organic chemicals	M2, 5.3.3				575	
handling areas).						
G. Measures are taken to prevent cross contamination.	M2, 5.3.3				55331	
H. Access to and use of neighboring areas where activities are incompatible are defined and						
controlled.	M2, 5.3.4				576	
I. Adequate measures are taken to ensure good housekeeping and to ensure that any						_
contamination does not adversely affect data quality.	M2, 5.3.5				577	
J. Special procedures are prepared when necessary.	M2, 5.3.5				578	

Relevant Aspect of Standards – ENVIRONMENTAL TEST METHODS AND METHOD VALIDATION	2016 NELAC	Y	N	N/A	Codes	Comments
19. ENVIRONMENTAL TEST METHODS AND METHOD VALIDATION						
A. The laboratory uses appropriate methods and procedures for all test methods and laboratory activities within its scope. Note: It includes sample collection, sample handling, transport & storage, sample preparation, sample analysis, estimations of uncertainty, & statistical techniques.	M2, 5.4.1				5101	
B. The laboratory documents instructions: a.) On the use and operation of all relevant equipment and b.) On the handling and preparation of samples, where the absence of such instructions could jeopardize the calibrations or tests.	M2, 5.4.1				5102a 5102b	

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NYSDOH ELAP QUAIITY SY				NI/A	0.1	
Relevant Aspect of Standards – ENVIRONMENTAL TEST METHODS AND METHOD	2016	Y	N	N/A	Codes	Comments
VALIDATION	NELAC					
C. All instructions, standards, manuals and reference data relevant to the work of the laboratory						
are maintained up-to-date and readily available to the staff.	M2, 5.4.1				5103	
D. Deviations from test methods occur only if the deviation has been documented, technically						
justified, authorized, and accepted by the client.	M2, 5.4.1				554111	
E. The laboratory maintains SOPs that accurately reflect all phase of laboratory activities such						
as data integrity, corrective actions, handling customer complaints and test methods.	M2, 4.2.8.5,					
Note: These documents may be equipment manuals, published methods, or internally written	M2, 4.2.8.5(a),					
SOPs with adequate detail to allow someone similarly qualified, other than the analyst,	(d) & (f)					
to reproduce the procedures used to generate the test result. Copies of published					55411	
methods that contain sufficient information to perform the tests do not need to be						
supplemented or rewritten as internal procedures, if the documents are written in a way						
that they can be used as written. M2, 5.4.1 and 5.4.2 does not include a 'Laboratory						
Methods Manuals' section and the 23 items that need to be addressed in a SOP.	M2, 4.2.8.5					
Each test method includes or references all 23 points where applicable.					5108	
The 23 points are:					5108a	
a) Identification of the test method,					5108b	
b) Applicable matrix or matrices,					5108c	
c) Detection limit and quantitation,					5108d	
d) Scope and application, including analytes to be analyzed					5108e	
e) Summary of the test method, f) Definitions,	M2, 4.2.8.5				5108f	
	(f)(i-xxiii)				5108g	
g) Interferences, h) Safety,	(1)(1 75(11)				5108h	
i) Equipment and supplies,					5108i	
j) Reagents and standards,					5108j	
k) Sample collection, preservation, shipment and storage,					5108k	
I) Quality control,					51081	
m) Calibration and standardization,					5108m	
n) Procedure,					5108n 5108o	
o) Data analysis and calculations,					51080 5108p	
p) Method performance,					5108p	
q) Pollution prevention,					5108q	
r) Data assessment and acceptance criteria for quality control measures,					5108s	
s) Corrective actions for out-of-control data,					5108t	
t) Contingencies for handling out-of-control or unacceptable data,					5108u	
u) Waste management,						

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NYSDOH ELAP Quality Systems Checklist										
Relevant Aspect of Standards – ENVIRONMENTAL TEST METHODS AND METHOD	2016	Υ	N	N/A	Codes	Comments				
VALIDATION	NELAC									
v) References, and					5108v					
w) Any tables, diagrams, flowcharts and validation data.					5108w					
F. Copies of SOPs are assessable to all personnel.	M2, 4.2.8.5(b)				5104					
G. The laboratory has and maintains an SOP for each accredited analyte or method.	M2,4.2.8.5 (e)				511					
H. Each SOP clearly indicates:										
a.) Effective date of the SOP,	M2, 4.2.8.5(c)				5105a					
b.) Revision number, and	, ()				5105b					
c.) Signature(s) of approving authority					5105c					
SELECTION OF M	ETHODS									
I. The laboratory uses test methods and procedures, which meet the needs of the client, for all										
tests and related activities within its responsibility (including sample collection, handling,										
transport, storage, preparation, and analysis).	M2, 5.4.2				5109					
Note: The laboratory shall use test methods published in international and regional or national										
standards. Laboratory-developed methods may also be used if they are appropriate for										
the intended use and if they are validated.										
J. The laboratory ensures that it uses the latest valid edition of a standard source of methods.										
Note: When necessary, the standard shall be supplemented with additional details to ensure	M2, 5.4.2				55421a					
consistent application.										
K. When specific test methods are not required, the laboratory uses only fully documented and										
validated test methods that are appropriate for the intended use and made available to the										
client and other recipients of relevant reports.	M2, 5.4.2				51012					
Note: The labs need to select appropriate test methods published in international, regional or										
national standards; by reputable technical organizations; in relevant scientific texts or										
journals; or as specified by the manufacturer of the equipment.										
L. The laboratory informs the client when the method proposed by the client is considered to be	M2, 5.4.2				55421d					
inappropriate or out of date.										
M. The introduction of laboratory-developed methods is a planned activity assigned to qualified	M2, 5.4.3				5543					
personnel equipped with adequate resources.										
N. Plans for laboratory-developed methods are updated as development proceeds and effective	M2, 5.4.3				5543a					
communication amongst all personnel involved ensured.										
O. When it is necessary to use non-standard methods, their use is subject to agreement with the	M2,5.4.4				5544r					
client, including clear specification of client requirements and the purpose of the testing.										
P. All non-standard methods, laboratory-designed/developed methods, standard methods used										
outside their intended scope, and amplifications and modifications of standard methods are	M2,5.4.4				55452r					
validated to confirm they fit their intended use.										

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NYSDOH ELAP Quality Sy	stems Chec	KII	Sτ					
Relevant Aspect of Standards – ENVIRONMENTAL TEST METHODS AND METHOD	2016	Υ	N	N/A	Codes	Comments		
VALIDATION	NELAC							
VALIDATION OF TEST METHODS / ESTIMATION OF UNCERTAINTY OF MEASUREMENT								
Q. The laboratory records the results of validations, the procedure used, and a statement as to								
whether the method is fit for the intended use.	M3-M6,				55452ar			
Note: The minimum requirements shall be the initial test method evaluation requirements	1.5,M2,5.4.5.2							
given in M3-M6,1.5					55452b			
R. The ranges and accuracy of the values obtainable from validated methods, is within the								
intended use, and relevant to the clients' needs.	M2,5.4.5.3				55453r			
S. If a laboratory is performing testing it has and implements a procedure to estimate the	,							
uncertainty of measurement.	M2,5.4.6.2				55462r			
NOTE: In those cases where a well-recognized method specifies limits to the values of all	,							
major sources of measurement uncertainty and specifies the form of presentation of								
calculated results, the laboratory is considered to have satisfied this clause by								
following the test method and reporting instructions.								
T. In cases where it is not possible to calculate the uncertainty of measurement in a rigorous								
metrological and statistically significant way, the laboratory, at least, attempts to identify all the	M2,5.4.6.2				55462ar			
components of uncertainty and makes a reasonable estimation.								
Note: It is based on knowledge of the performance of the method, measurement scope,								
previous experience, and validation data.								
U. The laboratory ensures that the form of reporting does not give a wrong impression of the								
uncertainty of measurement.	M2,5.4.6.2				55462br			
V. All important uncertainty components are considered using appropriate methods of analysis.	M2,5.4.6.3				55463r			
CONTROL OF I	DATA							
W. Calculations and data transfers are subject to checks as established in the laboratory's SOP.	M2, 5.4.7.1				51023			
X. When computers or automated equipment are used for the acquisition, processing, recording,								
reporting, storage or retrieval of test or calibration data, the laboratory ensures that computer	M2, 5.4.7.2(a)							
software developed by the user is documented in sufficient detail and is suitably validated as					51032a			
being adequate for use.								
Y. Procedures are established and implemented for protecting the integrity of data.	M2, 5.4.7.2(b)				51033r			
Z. The procedures include, but are not be limited to:								
a.) Integrity of data entry or capture,	M2, 5.4.7.2(b)							
b.) Data storage,					51035r			
c.) Data transmission, and								
d.) Data processing								
e.) Confidentiality 0f data entry or collection								

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Relevant Aspect of Standards – ENVIRONMENTAL TEST METHODS AND METHOD	2016	Υ	N	N/A	Codes	Comments
VALIDATION	NELAC					
AA. Computer and automated equipment are maintained to ensure proper functioning and are provided with the environmental and operating conditions necessary to maintain the integrity of calibration and test data.	M2, 5.4.7.2(c)				51036	
BB. The laboratory establishes and implements appropriate procedures for the maintenance of security of data including the prevention of unauthorized access to, and the unauthorized amendment of, computer records.	M2,4.13.1.3- 4.13.1.4				51037r	

Relevant Aspect of Standards – EQUIPMENT AND REFERENCE MATERIALS	2016 NELAC	Y	N	N/A	Codes	Comments
). EQUIPMENT AND REFERENCE MATERIALS	•				•	
The laboratory furnishes all items of equipment (including reference materials) required for the correct performance of tests for which accreditation is sought.	M2, 5.5.1				581	
Equipment outside the permanent control of the laboratory is handled so as to ensure that the requirements of the NELAC standard are met.	M2, 5.5.1				582	
The equipment and the software used for testing, calibration and sampling are capable of achieving the accuracy required and it complies with specifications relevant to the tests concerned.	M2, 5.5.2				5552	
Calibration programs are established for key quantities or values of the instruments where these properties have a significant effect of the results.	M2, 5.5.2				55521	
Before being placed into service , equipment (including that used for sampling) is calibrated or checked to establish that it meets the laboratory's specification requirements and complies with the relevant standard specifications.	M2, 5.5.2				55522	
All support equipment is maintained in proper working order and records of all activities including service calls kept. Note: These Standards apply to analytical support equipment, including, but not limited to, balances, ovens, refrigerators, freezers, incubators, water baths, thermometers, thermistors, thermal/pressure sample preparation devices, and mechanical dispensing devices.	M2, 5.5.13.1(b)				5910r	
 All temperature measuring devices are calibrated or verified at least annually, using a recognized National Metrology Institute traceable reference such as NIST traceable references when available. If the temperature measuring device is used over a range of 10 degrees C or less, then a single point verification within the range of use is performed. If the temperature measuring device is used over a range of greater than 10 degrees, then 	M2, 5.5.13.1(d)				59111 59111a 59111b	

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Relevant Aspect of Standards – EQUIPMENT AND REFERENCE MATERIALS	2016	Y		N/A	Codes	Comments
Relevant Aspect of Standards - Eagon MERT AND REFERENCE MATERIALS	NELAC	'	'	IV/A	oodcs	Comments
H. The results of support equipment calibration or verification are within the specifications required of the application for which it is used.	M2, 5.5.13.1(a)				5912r	
I. Support equipment that is not within the specifications required of the application are removed from service until repaired .	M2, 5.5.13.1 (a)(i)				5913r	
J. The laboratory maintains records of established correction factors to correct measurements.	M2, 5.5.13.1 (a)(ii)				5914r	
K. All raw data records are retained to document equipment performance.	M2, 5.5.13.1(g)				5915r	
L. On each day that the equipment is used , balances, ovens, refrigerators, freezers, incubators and water baths are checked and documented.	M2, 5.5.13.1(c)				5916	
M. The acceptability for use or continued use are according to the needs of the analysis or application for which it is used.	M2, 5.5.13.1(c)				5918r	
N. Mechanical volumetric devices, are verified prior to first use and, are checked for accuracy on a quarterly basis. Note: Check is not needed for Class A glassware.	M2, 5.5.13.1 (e)(iii)				5919r	
O. Mechanical devices that are used at more than one volume are verified at volumes bracketing the range of use, and at the mid-point of the volumes used by the device.	M2,5.5.13.1(e) (iii)				59920	
P. Disposable or single use volumetric equipment are verified once per lot, prior to or in conjunction with the first use.	M2,5.5.13.1(e) (ii)				59921	
Q. All other volumetric support equipment is checked for use prior to or in conjunction with first use.	M2,5.5.13.1(e) (iv)				59922	
R. All other support equipment is calibrated or verified at least annually, using a recognized National Metrology Institute, such as NIST, traceable reference when available, bracketing the range of use.	M2,5.5.13.1(f)				59923	
S. Equipment is operated by authorized personnel.	M2, 5.5.3				5553	
T. All equipment is properly maintained, inspected and cleaned.	M2, 5.5.5(g)				583r	
U. Maintenance procedures are documented.	M2, 5.5.5(f)				584r	
V. Up-to-date instructions on the use & maintenance of equipment (including relevant						
manufacturer manuals) are readily available for use by appropriate personnel.	M2, 5.5.3				584a	
W. The laboratory has procedures for safe handling, transport, storage, use, and planned maintenance of measuring equipment to ensure proper functioning and to prevent contamination or deterioration.	M2, 5.5.6				5556	
X. Any item of the equipment which has been subjected to overloading or mishandling, or which gives suspect results, or has been shown by verification or otherwise to be defective, is taken	M2, 5.5.7				585	

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Relevant Aspect of Standards – EQUIPMENT AND REFERENCE MATERIALS	2016	Υ	N	N/A	Codes	Comments
	NELAC					
out of service, isolated to prevent use or clearly marked as being out of service until it						
has been repaired and shown by calibration, verification or test to perform satisfactorily.						
Y. The laboratory examines the effects of this defect or departures from specified limits on						
previous tests and/or calibrations and institutes the "Control of Nonconforming Work"	M2, 5.5.7					
procedure.					586	
Note: Refer to section 10 of checklist, "Control of Nonconforming Work".	M2. 4.9.1					
Z. Each item of equipment and its software used for environmental testing and significant to the						
result, are uniquely identified (when practicable).	M2, 5.5.4				586a	
Note: Refer to deficiency 51223C in section 13 of checklist, "Control of Records", too.	M2, 4.13.3(f)					
AA. Whenever practical, items of equipment under control of the laboratory and requiring						
calibration are labeled, coded or otherwise identified to indicate its calibration status,	M2, 5.5.8				587	
including the date when last calibrated and the date or expiration criteria when recalibration						
is due.						
BB. Records are maintained of each item of equipment and its software significant to the						
tests and /or calibrations include the following:					588a	
a) The identity of the item of equipment and its software,					5001	
b) The manufacturer's name, type identification, and serial number or other unique					588b	
identification, c) Checks that equipment comply with the specification,	M2, 5.5.5(a)-				588c1	
d) Current location, where appropriate,	(h)				588d	
e) manufacturer's instructions, where available, or reference to their location					588e1	
f) Dates and results of calibrations and/or verifications and date of the next calibration					588f1	
and/or verification,					00011	
g) Details of maintenance carried out to date and planned for the future,					588g1	
h) History of any damage, malfunction, modification or repair					588h1	
CC. If for any reason, equipment goes outside the direct control of the laboratory, the						
laboratory ensures that the function and calibration status of the equipment is checked and	M2, 5.5.9				5559	
shown to be satisfactory before equipment is returned to service.						
DD. The laboratory has procedures to ensure that copies of new correction factors are						
correctly applied/updated (e.g. in computer software).	M2, 5.5.11				55511	
EE. Test and calibration equipment, including both hardware and software, are safeguarded						
from adjustments which would invalidate the test and/or calibration results.	M2, 5.5.12				55512	

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Relevant Aspect of Standards – MEASUREMENT TRACEBILITY, INCLUDING CALIBRATION	2016	Υ	N	N/A	Codes	Comments
AND REFERENCE STANDARDS & MATERIALS	NELAC					
21. MEASUREMENT TRACEABILITY, INCLUDING CALIBRATION AND REFERENCE STANDAL	RDS & MATERIAL	S		•		
A. All measuring operations and testing equipment having an effect on the accuracy or validity of						
tests are calibrated and/or verified before being put into service and on a continuing	M2, 5.6.1				591	
basis						
B. The laboratory has an established program for the calibration and verification of its						
measuring and test equipment including balances, thermometers and control standards.	M2, 5.6.1				592	
Note: Such a program shall include a system for selecting, using, calibrating, checking,						
controlling, & maintaining measurement standards, reference materials used as	M2, 5.6.3.1					
measurement standards, and measuring & testing equipment used to perform the test.					5992	
C. The laboratory ensures that the equipment used can provide the uncertainty of						
measurement needed with an established program and procedure for the calibration of	M2, 5.6.1				556221r	
its equipment.						
D. The overall program of calibration and/or verification & validation of equipment made by the						
lab is traceable to national standards of measurement.	M2, 5.6.2				593	
E. The laboratory provides satisfactory evidence of correlation of results in those cases where	M2, 5.6.2.1.1					
traceability to national standards of measurement is not applicable.	M2, 5.6.4.1				595r	
REFERENCE STANDARDS AND RE	FERENCE MATE	RIA	LS			
F. Reference standards of measurement held by the laboratory (such as Class S or equivalent						
weights or traceable thermometers) are used for calibration only and for no other purpose,	M2, 5.6.3.1				596	
unless it is demonstrated that their performance as reference standards has not been						
invalidated.						
G. Reference standards of measurement are calibrated by a body that can provide, where	M2, 5.6.3.1					
possible, traceability to national or international standard reference materials.	M2, 5.6.3.2;					
Note: Reference standards need to be calibrated before and after any adjustments.	M2, 5.6.4.1(a)				597	
H. There is a program of calibration and verification for reference standards.						
Note: Refer to deficiency 592 in this section, too.	M2, 5.6.3.1				598	
I. Internal reference materials are checked as far as technically and economically possible.	M2, 5.6.3.2				599a	
J. The laboratory has defined procedures and schedules for carrying out checks of the						
calibration status of reference, primary, transfer or working standards and reference	M2, 5.6.3.3				55633	
materials.						
K. The laboratory has procedures for safe handling, transport, storage, and use of reference						
standards and reference materials in order to protect their integrity, and prevent	M2, 5.6.3.4				55634	
contamination and/or deterioration.						
L. Documented procedures exist for the purchase, receipt and storage of consumable						
materials used for the technical operations of the laboratory.	M2, 5.6.4.2				55641	
·	•	•		•		

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Relevant Aspect of Standards – MEASUREMENT TRACEBILITY, INCLUDING CALIBRATION	2016	Υ	N	N/A	Codes	Comments
AND REFERENCE STANDARDS & MATERIALS	NELAC					
M. a.)The laboratory retains records for all standards, reagents, reference materials and media.						
This includes:	M2, 5.6.4.2(a)					
a.1)Manufacturer/vendor	, ,				51025a1	
a.2.) Manufacturers Certificate of Analysis (COA)					51025a2	
a.3.) Purity (if available)					51025a3	
a.4.) Date of receipt					51025a4	
a.5.)_Recommended storage conditions					51025a5	
,—						
b.) —For original containers, if an expiration date is provided by the manufacturer or vendor, it	M2, 5.6.4.2(b)				51025b	
shall be recorded on the container	, (-)					
					54005-4	
c.) Records shall be maintained on standard, reference material, and reagent preparation.	M2, 5.6.4.2(c)				51025c1	
This includes:	,(-)				51025c2	
c.1.)Traceability to purchased stocks or neat compounds					51025c3 51025c4	
c.2.) Reference to the method of preparation					51025c4 51025c5	
c.3.) Date of preparation					3102363	
c.4.) Expiration date						
c.5.)_Preparer's initials						
o.o.)i roparor o minaro						
d.)All containers of prepared standards, reference materials, and reagents shall bear a	M2, 5.6.4.2(d)				51025d	
unique identifier and expiration date.	W.Z., 0.0. 1.Z(d)				010200	
dilique identifier una expiration date.						
e.) Prepared reagents meet the requirements of the method.	M2, 5.6.4.2(e)				51025e	
- 1 repared reagonts meet the requirements of the method.	WZ, 0.0.4.2(0)					
f.) Standards, reference materials, and reagents are not used after their expiration dates	M2, 5.6.4.2(f)					
unless their reliability is verified by the laboratory.	IVIZ, 0.0.4.2(I)				51025f	
N. The laboratory has verified the purity of expired standards, reagents, & media prior to their	M2, 5.6.4.2(f)					
continued use.	IVIZ, J.U.4.Z(I)				51025a	
O. Original reagent containers are labeled with the expiration date.	M2, 5.6.4.2.(b)				010200	
· · · · · · · · · · · · · · · · · · ·	IVIZ, 3.0.4.2.(D)				51026	
Note: If an expiration date is not provided by the manufacturer or vendor it is not required.	MO 5 6 4 0/a)				31020	
P. Detailed records are maintained on standard and reference material preparation.	M2, 5.6.4.2(c)				54027	
Note: Refer to deficiency 51223i in section 13, 'Control of Records', too.					51027	
Q. The records of standard and reference material preparation indicates traceability to purchased	MO 5 0 4 0/ \				E4000	
stocks or neat compounds, reference to method of preparation, date of preparation, expiration	M2, 5.6.4.2(c)				51028	
date, and preparer's initials.						
Note: Refer to deficiency 51223, f, g, and i in section 13, 'Control of Records', too.			2 of E(

Relevant Aspect of Standards – MEASUREMENT TRACEBILITY, INCLUDING CALIBRATION	2016	Y	N	N/A	Codes	Comments
AND REFERENCE STANDARDS & MATERIALS	NELAC					
R. All containers of prepared standards, reference materials and reagents bear a unique identifier and expiration date, and can it be linked to the documentation of its preparation.	M2, 5.6.4.2(d)				51029	
S. Procedures are in place to ensure prepared reagents meet the requirements of the test method.	M2, 5.6.4.2(e)				5564e	
T. In methods where the purity of the reagents are not specified, analytical grade is used.	M4, 1.7.2.5(a)				511030	
U. Documentation of purity of reagents is available.	M4, 1.7.2.5(a)				511031	
V. The laboratory verifies the concentrations of titrants in accordance with written laboratory procedures.	M4, 1.7.2.5.(c)				511032	
W. The quality of the water sources are monitored and documented and meet the method specified requirement.	M4, 1.7.2.5.(b)				511033	

Relevant Aspect of Standards - SAMPLING	2016	Υ	N	N/A	Codes	Comments
	NELAC					
22. SAMPLING					•	
A. If the laboratory carries out sampling, it has a sample plan and procedures.	M2, 5.7.1				5571	
B. The sampling plan and procedure is available at the sampling location.	M2, 5.7.1				5571a	
C. Sample plans, whenever reasonable, are based on appropriate statistical methods.	M2, 5.7.1				5571b	
D. The sampling process addresses the factors to be controlled to ensure the validity of the test results.	M2, 5.7.1				5571c	
E. Client required deviations , additions , or exclusions from the documented sampling procedure are recorded in detail with the appropriate sampling data and included in all documents containing test results and communicated to appropriate personnel.	M2, 5.7.2				5572	
F. The laboratory has procedures for recording relevant data and operations relating to sampling.	M2, 5.7.3				5572a	
G. Sampling records include: a.) The sampling procedure used, b.) The identification of the sampler, c.) Environmental conditions (if relevant), d.) Diagrams or other equivalent means to identify the sampling location, and e.) If appropriate, the statistics the sampling procedure is based on	M2, 5.7.3				5573a 5573b 5573c 5573d 5573e	
H. a.) Documentation includes the date and time of sampling. b.) Any deviations from sampling procedures are documented.	M2, 5.7.4 (a)(b)				5573f 5573g	

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Relevant Aspect of Standards – HANDLING OF SAMPLING, SAMPLE RECEIPT	2016	Y	N	N/A	Codes	Comments
PROTOCOLS, & SAMPLE ACCEPTANCE POLICY	NELAC					
23. HANDLING OF SAMPLES, SAMPLE RECEIPT PROTOCOLS, & SAMPLE ACCEPTANCE P	OLICY					
A. The laboratory has procedures for the transportation, receipt, handling, protection,						
storage, retention and/or disposal of samples, including provisions necessary to protect the	M2, 5.8.1				5581	
integrity of the sample, and to protect the interests of the laboratory and the client.						
B. The laboratory has a documented system for uniquely identifying the items to be tested ,						
to ensure that there can be no confusion regarding the identity of such items at any time.						
Note: In cases where the sample collector and the analyst are the same individual, or the	M2, 5.8.2 &				5111	
laboratory pre-assigns numbers to sample containers, the laboratory ID code may be	5.8.5					
the same as the field ID code.						
Note: The sample identification is to be retained throughout the life of the sample in the lab.						
Also, the sample identification system is to accommodate a sub-division of groups of						
samples and the transfer of samples within & from the lab.						
C. The system includes identification for all samples, sub-samples, preservations, sample					5440	
containers, tests and subsequent extracts and/or digestates.	M2, 5.8.5(a)				5112	
D. The laboratory assigns a unique identification (ID) code to each sample container received						
in the laboratory.	M2, 5.8.5(a)				5113	
E. The laboratory sample code maintains an unequivocal link with the unique field ID code						
assigned each container.	M2, 5.8.5(b)				5114	
F. The laboratory ID code is placed on the sample container as a durable mark .	M2, 5.8.5(c)				5115	
G. The laboratory ID code is entered into the laboratory records and the link associates the						
sample with related laboratory activities such as sample preparation or calibration.	M2, 5.8.5(d)				5116	
SAMPLE RECEIPT PROTOCOLS & SAI	MPLE ACCEPTAN	ICE I	POLI	CY		
H. The laboratory has a written sample acceptance policy that clearly outlines the						
circumstances under which samples will be accepted or rejected.	M2, 5.8.6				5117	
I. Data from any sample which does not meet the policy criteria is flagged in an unambiguous						
manner clearly defining the nature and substance of the variation.	M2, 5.8.6(g)				5118+	
J. The sample acceptance policy criteria includes the following at a minimum:						
a) Proper, full, and complete documentation, which includes:					51110a	
sample identification,						
location,						
date and time of collection,	M2, 5.8.6					
collector's name,	(a)-(g)					
preservation type,						
sample type, and						

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NYSDOH ELAP Quality S				T	<u> </u>	
Relevant Aspect of Standards – HANDLING OF SAMPLING, SAMPLE RECEIPT	2016	Y	N	N/A	Codes	Comments
PROTOCOLS, & SAMPLE ACCEPTANCE POLICY	NELAC					
any special remarks concerning the sample.						
b) Proper sample labeling to include:					51110b	
unique identification and						
labeling system for the samples with requirements concerning the durability of the labels						
(water resistant) and the use of indelible ink.						
c) Use of appropriate sample containers,					51110c	
d) Adherence to specified holding times,					51110d	
e)Adequate sample volume to perform the necessary tests, and					51110e	
f) Procedures to be used when samples show signs of damage or contamination					51110f	
g) Qualification of any data that do not meet above requirements					51110g	
K. Upon receipt, the condition of the sample is recorded, including any abnormalities or						
departures from standard condition as prescribed in the relevant test method.	M2, 5.8.3				51111	
L. When there is doubt as to the suitability of an item for test, or when an item does not conform						
to the description provided, or the test required is not specified in sufficient detail, the	M2, 5.8.3				51111a	
laboratory consults the customer for further instructions before proceeding and records the						
discussions.						
M. All samples, which require thermal preservation, are considered acceptable if the arrival	M2, 5.8.9(a)(i),					
temperature of a representative sample container is either within ± 2 °C of the required	M4, 1.7.4(a);					
temperature or in the method specified range	M5, 1.7.5.1; M6,				51113	
	1.7.4.2(a)					
N. In cases where samples are hand delivered to the laboratory immediately after collection						
and do not meet the temperature criteria are considered acceptable if:						
a) There is evidence that the chilling process has begun such as arrival on ice,	M4,1.7.5				51115a	
OR;	(a)(i-iii);				544451	
b) Sample analysis is begun within 15 minutes of collection, thermal preservation is not	M5,1.7.5.1				51115b	
required,					51115c	
OR;					311136	
c) Thermal preservation is not required in the field if the laboratory receives and refrigerates						
the sample within 15 minutes of collection.						
O. The laboratory implements procedures for checking chemical preservation using readily	1444 - 400					
available techniques, such as pH, free chlorine or temperature, prior to or during sample	M4,1.7.4(b);				E4447	
preparation or analysis.	M5, 1.7.5.2; M6,				51117r	
Note: An exception is allowed for volatile organic analyte analyses; chemical preservation	1.7.4.2(b)					
may be checked after analysis.	MO 5 0 0/-\/'\	1				
P. For samples with a specified temperature of 4 °C, samples are maintained within a	M2, 5.8.9(a)(i);				E4444	
temperature of just above freezing to 6 °C.	M4, 1.7.4(a)				51114r	

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NYSDOH ELAP Quality Sy		1	1	T		T
Relevant Aspect of Standards – HANDLING OF SAMPLING, SAMPLE RECEIPT	2016	Y	N	N/A	Codes	Comments
PROTOCOLS, & SAMPLE ACCEPTANCE POLICY	NELAC					
Q. Items that have to be stored or conditioned under specified environmental conditions, the						
conditions shall be maintained, monitored and recorded.	M2, 5.8.4				511188	
R. Where there is any doubt as to the item's suitability for testing, where the sample does not						
conform to the description provided, or where the test required is not fully specified, the	M2, 5.8.3				51119a	
laboratory:						
a) consults with the client for further instruction before proceeding, and						
b) records the discussion with the client.						
S. The laboratory implements procedures for verifying and documenting preservation.	M2,5.8.7.1				51119b	
T. If the sample does not meet the sample receipt acceptance criteria, the laboratory:	M2, 5.8.7.2(a)					
a) Retains correspondence and/or records of conversations concerning the final	M2, 5.8.7.2(b)				51120a	
disposition of rejected, or						
b) Fully documents any decision to proceed with the analysis of samples not meeting	M2, 5.8.7.2(b)(i)				51120b	
acceptance criteria						
c) At a minimum, notes the condition of the sample on the chain of custody or transmittal	M2, 5.8.7(b)(ii)				51120c	
forms and on laboratory receipt documents					E4400-I	
d) Appropriately qualifies the analysis data on the final report					51120d	
U. The laboratory utilizes a permanent chronological log, such as a logbook or electronic						
record, to document receipt of all sample containers.	M2, 5.8.7.3				51121	
V. The following information is recorded in the laboratory's chronological log:						
a) Client/Project Name,	M2, 5.8.7.3				51122a	
b) Date and time of laboratory receipt of sample,	(a)(i-iv)				51122b	
c) Unique laboratory ID code, and					51122c	
d) Signature or initials of the person making the entries					51122d	
W. The following information is unequivocally linked to the log in records, included as a part of the						
log, or if recorded/documented elsewhere, is a part of the laboratory's permanent records,						
easily retrievable upon request, and readily available to individuals who will process the					51123a	
sample:	M2, 5.8.7.3					
a) Field ID code linked to laboratory ID code in the sample receipt log	(b)(i-iv)				51123b	
b) Date and time of sample collection linked to the sample container and to the date and	, , , ,					
time received in the laboratory					51123c	
c) Requested analyses (including applicable approved test method numbers) linked to the					E4400-I	
laboratory ID code					51123d	
d) Any comments resulting from inspection for sample rejection linked to the laboratory ID						
code						
Note: The placement of the laboratory ID number on the sample container is not						
considered a permanent record.						

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stems Check	1112	τ			
2016	Υ	N	N/A	Codes	Comments
NELAC					
				569a	
				569b	
M2,5.8.2					
				569c	
				569d	
MO 5 0 7 4				54404	
IVI2, 5.8.7.4				51124	
140 5 0 7 5				51105	
M2, 5.8.7.5				51125	
				54400	
M2, 5.8.4				51126	
,					
` '				51129	
M2, 5.8.9(a)(ii)					
				51130	
M2, 5.8.9(b)				51131	
M2, 5.8.4				51132	
M2, 5.8.9(c)				51133	
	M2, 5.8.7.4 M2, 5.8.7.5 M2, 5.8.4 M2, 5.8.9(a) M2, 5.8.9(a) M2, 5.8.9(b) M2, 5.8.4	M2, 5.8.7.4 M2, 5.8.7.5 M2, 5.8.4 M2, 5.8.9(a) M2, 5.8.9(a)(ii) M2, 5.8.9(b)	M2, 5.8.7.4 M2, 5.8.7.5 M2, 5.8.4 M2, 5.8.9(a) M2, 5.8.9(a)(ii) M2, 5.8.9(b)	2016 NELAC M2,5.8.2 M2, 5.8.7.4 M2, 5.8.4 M2, 5.8.4 M2, 5.8.9(a) M2, 5.8.9(a)(ii) M2, 5.8.9(b)	2016 NELAC Y N N/A Codes M2,5.8.2 569a 569b 569c M2,5.8.7.4 569d 569d M2, 5.8.7.5 51124 M2, 5.8.4 51125 M2, 5.8.9(a) 51128r M2, 5.8.9(a) 51129 M2, 5.8.9(a)(ii) 51130 M2, 5.8.9(b) 51131

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NYSDOH ELAP Quality Sy	stems Chec	KIIS	τ			
Relevant Aspect of Standards – ASSURING THE QUALITY OF TEST AND CALIBRATION	2016	Υ	N	N/A	Codes	Comments
RESULTS	NELAC					
24. ASSURING THE QUALITY OF TEST AND CALIBRATION RESULTS						
A. The laboratory ensures the quality of results provided to clients by implementing checks to						
monitor the quality of the laboratory's analytical activities.						
Examples are as follows:						
 Internal quality control procedures (using statistical techniques whenever possible); 						
 Participation in PT or other inter-laboratory comparisons; 	M2, 5.9.1				5531	
 Reference material and/or in-house quality control using secondary reference materials; 	1112, 0.0.1					
 Replicate testing; 						
 Re-testing of retained samples; and/or 						
 Correlation of results for different characteristics of an item. 						
B. The laboratory has quality control procedures for monitoring the validity of environmental tests	M2, 5.9.1				5591	
and calibrations undertaken.						
C. The resulting data is recorded in such a way that trends are detectable and, where applicable,	M2, 5.9.1				55911	
statistical techniques are applied to the reviewing of the results.						
D. The monitoring is planned and reviewed.	M2, 5.9.1				55912	
ESSENTIAL QUALITY CONTR	OL PROCEDURE	ES				
E. The laboratory has a detailed written protocol in place to monitor quality controls.						
Examples are as follows:						
 Positive and negative controls such as blanks, spikes, and reference toxicants; 						
 Adequate tests to define variability and/or repeatability such as replicates; 						
 Measures to assure the accuracy of the method including calibration and/or continuing 						
calibrations, use of certified reference materials, proficiency test samples, or other measures;	M2,5.9.3				5536a	
 Measures to evaluate method capability, such as limit of detection and limit of quantitation or 	(a)(i-viii)					
range of applicability such as linearity;	(-)()					
 Selection of appropriate formulae to reduce raw data to final results such as regression 						
analysis, comparison to internal/external standard calculations, and statistical analyses;						
 Selection and use of reagents and standards of appropriate quality; 						
 Measures to assure the selectivity of the test for its intended purpose; and 						
 Measures to assure constant and consistent test conditions (both instrumental and 						
environmental) where required by the method such as temperature, humidity, light or specific						
instrument conditions.						
F. All quality control measures are assessed and evaluated on an on-going basis, and quality	M2, 5.9.3(b)					
control acceptance limits used to determine the usability of the data.	, , ,				5535	
G. The laboratory has procedures for the development of acceptance/rejection criteria where	M2, 5.9.3(c)					
no method or regulatory criteria exist.	. ,				5536	

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Relevant Aspect of Standards – ASSURING THE QUALITY OF TEST AND CALIBRATION RESULTS	2016	Y	N	N/A	Codes	Comments
REGUE 13	NELAC					
H. The quality control protocols specified by the laboratory's method manual are followed.	M2, 5.9.3(c)					
Note: The essential QC standards of 2016 TNI, mandated methods, or regulations						
(whichever are more stringent) must be incorporated into method manual. The QC					5537	
requirements in the mandated methods or regulations are to be followed when it is not						
apparent which QC is more stringent.						

Relevant Aspect of Standards – REPORTING THE RESULTS	2016 NELAC	Y	N	N/A	Codes	Comments
25. REPORTING THE RESULTS	l	- 1		1		
 A. The laboratory reports the results of each test or series of tests carried out by the laboratory in a test report that reports the data accurately, clearly, unambiguously, and objectively. Note: The results also need to be reported in accordance with any specific instructions in the test method. 	M2, 5.10.1				5131	
B. The test report contains all information necessary for the interpretation of the test results and all information required by the method used.	M2, 5.10.1				5132	
 C. If the laboratory is operated by a facility whose sole function is to provide data to the facility management, the laboratory has all the required test report information readily available for review. Note: This information does not need to be included in a formal test report if the in-house laboratory is itself responsible for preparing regulatory reports (e.g., DMR) or the laboratory provides information to another individual within the organization for preparation of the regulatory report. In addition, the facility management must ensure that all required report items are included in the facility's regulatory report. D. Unless the laboratory is operated by a facility whose sole function is to provide data for the facility or has a valid reason for not doing so, the report contains: 	M2, 5.10.10				5132b	
a title,	M2, 5.10.2(a)				5133a	
b Name/address of laboratory,	M2, 5.10.2(b)				5133b	
c Location where analysis is carried out if different than the laboratory,	M2, 5.10.2(c)				5133c	
d Unique identification of the test report and on each page an identification in order to ensure that the page is recognized as a part of the test report, and a clear identification of the end of the test report.	M2, 5.10.2(d)				5133d1	

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Relevant Aspect of Standards – REPORTING THE RESULTS	2016	Υ	N	N/A	Codes	Comments
	NELAC					
e Page numbers and total number of pages	M2, 5.10.2				5133e	
	Note:1				5400¢	
f Name and address of client,	M2, 5.10.3.1(f)				5133f	
g Description of, condition of and unambiguous identification of the item tested,					5133gr	
h Where quality system requirements are not met, a statement of	M2, 5.10.3.1(b)				5133h	
compliance/noncompliance with requirements and/or specifications, including identification of results derived from samples that did not meet NELAC acceptance						
requirements such as improper container, holding time, or temperature,	M2, 5.10.2(g)				5133i	
i Date of receipt of sample, date and time of sample collection, date(s) of performance test, and time of sample preparation and/or analysis if the required holding time for either activity is less than or equal to 72 hours,	M2, 5.10.2(e)					
j Identification of the test method used (This includes prep methods, if applicable.),					5133j	
k Reference to the sampling plan and procedures used by the laboratory or other bodies where these are relevant to the validity or application of the results.	M2, 5.10.2(h)				5133kr	
I Any deviations from, additions to or exclusions from the test method, and non-reference conditions that may have affected the quality of the results, and including the use of relevant data qualifiers and their meaning	M2,5.10.3.1(a)				5133I+	
					5133m	
m Qualification of any data that do not meet the written sample acceptance policy.	M2,5.8.6(g)					
n The name(s), function(s) and signature(s) or equivalent identification of person(s) authorizing the test report or calibration certificate;	M2, 5.10.2(j)				5133nr	

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Relevant Aspect of Standards – REPORTING THE RESULTS	2016	Υ	N/A	Codes	Comments
	NELAC				
E. The lab utilizes qualifiers that are useful and meaningful for the end user. If "N", list those qualifiers, or affix a copy of the report.	ELAP			NA	For internal use
F. The report contains the <i>following</i> :					
a Environmental test results with, where appropriate, the units of measurement, and results that are reported on a basis other than as received such as data are calculated on dry weight or wet weight, reporting units,	M2, 5.10.2(i) & 5.10.11(b)			5134a	
b When required, a statement of the estimated uncertainty of the test result,	M2, 5.10.3.1(c)			5134b	
	M2, 5.10.2(j)				
c The name(s), function(s), and signature(s)or equivalent identification of person(s) authorizing the test report,	M2, 5.10.2(k)			5134c	
d A statement to the effect that the results relate only to the samples tested or calibrated,	M2, 5.10.2 – Note 2			5134dr	
e At the lab's discretion, a statement that the certificate or report shall not be reproduced except in full, without the written approval of the laboratory,	M2, 5.10.6			5134e	
f Clear identification of test results performed by subcontract laboratory, including its accreditation number, and	M2, 5.10.3.1(b)			5134f	
g Clear indication of numerical results with values outside of calibration range	M4, 1.7.1.1; M4, 1.7.2.2.1; M4, 1.7.3.3(c); M6,			5134gr	
 h If a QC measure is out of control and the data is to be reported, data qualifiers are reported with samples associated with failed QC measures. Note: The laboratory must indicate in final reports any deviations that may have affected the quality of the work. 	1.7.2.1(j)			5135h	
 G. All applicable elements above are readily available for review if not issued in a formal report by an in-house laboratory. Note: If the laboratory has a written agreement with the client, the test results may be reported in a simplified way. 	M2, 5.10.1			5135r	

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Relevant Aspect of Standards – REPORTING THE RESULTS	2016		N	N/A	Codes	Comments
TOTAL	NELAC	-		''''		
H. All applicable elements above are provided to another individual within the organization for preparation of regulatory reports if a formal report is not issued.	M2, 5.10.10(b)				5136	
I. The facility management ensures that the appropriate report items are in the report to the regulatory authority if the report is prepared by another individual within the organization. Note: This information does not need to be included in a formal test report if the in-house laboratory is itself responsible for preparing regulatory reports (e.g., DMR) or the laboratory provides information to another individual within the organization for preparation of the regulatory report. In addition, the facility management must ensure that all required report items are included in the facility's regulatory report.	M2, 5.10.10(b)				5137	
J. When opinions and interpretations are included in the test reports, the laboratory documents	M2, 5.10.5				55105a	
the basis upon which the opinions and interpretations have been made. K. Opinions and interpretations are clearly marked in test reports.	M2, 5.10.3.1(d) M2, 5.10.5 M2, 5.10.3.1(d)				55105a	
L. Where the certificate or report contains results of tests performed by subcontractors, these results are clearly identified by subcontractor name or applicable accreditation number, and the subcontractor's report made available to the client on request.	M2, 5.10.6, M2,4.5.5				5138r	
M. The format of the report is designed to accommodate each type of test carried out and to minimize the possibility of misunderstanding or misuse.	M2, 5.10.8				55108	
N. When it is necessary to issue a completely new test report , it is uniquely identified and contains a reference to the original that it replaces.	M2, 5.10.9				55109	
O. Material amendments to a calibration certificate, test report or test certificate after issue are made only in the form of a further document, or data transfer including the statement "Supplement to Test Report or Test Certificate, serial number", or equivalent form of wording.	M2, 5.10.9				51310	
P. Amendments to the formal report meet all the relevant requirements of this standard.	M2, 5.10.9				51311	
Q. The laboratory has procedures that ensures, where clients require transmission of test results by telephone, telex, facsimile or other electronic or electromagnetic means, that the requirements of this Standard are met, and that confidentiality is preserved .	M2, 5.10.7				51313	
R. Laboratory staff follows the documented procedures for the transmission of test results by telephone, telex, fax or other electronic or electromagnetic means.	M2, 5.10.7				51314	
S. The lab reports drinking water violations to the County Department of Health as required or requested by their client. Per Subpart 5-1.74 (c), the owner of a water system shall require the approved environmental laboratory performing the analyses to send laboratory results directly to the department and in a manner prescribed by the department. Per 5-1.77 (a), the supplier of water shall make State	DOH BPWS 5- 1.74 and 1.77				51316	

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Relevant Aspect of Standards – REPORTING THE RESULTS	2016 NELAC	Y	N	N/A	Codes	Comments
notification within 24 hours of learning of the existence or potential existence of a public health hazard, or within 48 hours for any other violation or situation that may pose a risk to public health.						
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST METHOD EVALUATION	2016 NELAC	Y	N	N/A	Codes	Comments
26. DEMONSTRATION OF CAPABILITY AND INITIAL TEST METHOD EVALUATION					•	
Note 1: The 2016 Standards incorporate the initial and ongoing demonstration of capability (DOC) a requirements are found in V1M6, ; microbiology DOC requirements are found in V1M5,).	as a sub-section (Sec.	1.6) \	within ea	ach discipline's	s module (e.g., radiochemistry DOC
A. The laboratory has an acceptable, written initial and on-going DOC procedure.	All MV1.6.1- 1.6.2				51014b	
 B. The laboratory confirms that it can properly operate all methods before introducing the environmental tests and repeat such confirmations each time the method changes. Note: This is applicable to records of initial demonstration of method capability prior to The institution of any test method. 	M2, 5.4.2				51014a	
C. The laboratory management maintains records to ensure that all technical laboratory staff have demonstrated and documented initial and ongoing proficiency in the activities for which they are responsible.	All MV,1.6.2				565r	
D. The laboratory completes a new demonstration of capability whenever there is a significant change in instrument type, personnel, or test method.	All MV1.6.1- 1.6.2				51014r	
E. The laboratory completes a new demonstration of capability whenever there is an analyte added to an existing accredited method.	All MV1.6.1- 1.6.2				000C01	
F. An initial demonstration of capability is made prior to using any method, and at any time there is a change in instrument type, personnel or method, or any time that a method has not been performed by the laboratory or analyst in a twelve (12) month period. Note: Refer to deficiency 51014 in Section 19, 'Environmental Test Methods and Method	All MV, 1.6.2				00c11a	

All MV, 1.6.1-

1.6.3

000c11

c)__ Analyte(s), class of analyte(s), or measured parameter(s) or organisms d)__ Identification of method(s) performed

G. Initial and on-going demonstrations are documented and all data applicable to the

a) __ Analyst(s) involved in preparation and/or analysis

Validation', too.

following information is documented:

b) Matrix

Identification of laboratory specific SOP used for analysis, including revision number

demonstration retained and readily available. The laboratory documents each initial DOC

in a manner such that information is readily available for each affected employee. The

Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST	2016	Υ	N/A	Codes	Comments
METHOD EVALUATION	NELAC				
f) Date(s) of analysis					
g) Summary of analysis					
H. If the method has not been performed by the analyst in a 12-month period, an initial DOC is	All MV 1.6.3			000c20	
performed.					
I. If the method or regulation do not specify an initial DOC, the following procedure is					
acceptable.	All MV, 1.6.2.2			000-45	
The concentrate of the QC sample are diluted in a volume of clean matrix sufficient to				000c15	
prepare four (4) aliquots at the required method volume to a concentration specified in the					
method, or if unspecified, to a concentration of 1-4 times the limit of quantitation.	All MAY 4 C O O				
J. Four aliquots are prepared and analyzed according to the method either concurrently or over a period of days.	All MV, 1.6.2.2			000c16	
K. The mean recovery is calculated using all of the results and the standard deviation for each	All MV, 1.6.2.2			000010	
parameter of interest is calculated in the units used for reporting (such as mg/L).	All IVIV, 1.0.2.2			000c17	
L. When it is not possible to determine mean and standard deviations, such as for				000011	
presence/absence and logarithmic values, the laboratory assesses performance against	All MV, 1.6.2.2			00c17a	
established and documented criteria.	, -				
M. The mean recovery and standard deviation meets the acceptance criteria for precision and					
accuracy of the method (if applicable) or in laboratory generated acceptance criteria (if	All MV, 1.6.2.2			000c18	
there is no mandatory criteria).					
N. If one or more of the test parameters does not meet the acceptance criteria, the problem is					
corrected followed by repeated analysis of the four aliquots for all parameters or at least for	All MV, 1.6.2.2			00c110	
those that failed to meet criteria.					
O. Additional initial DOC microbiological qualitative tests: acceptable performance in a blind	145.4.0.0			000-04	
study. Study must consist of at a minimum a blank, a negative culture and a positive	M5,1.6.2			000c21	
culture for each test organism.					
P. Laboratory management ensures that the training records of each of the technical staff is updated by including documentation of continuing proficiency may be one of the following.:					
a.) Acceptable performance of a blind sample;					
b.) Another initial demonstration of capability;	All MV, 1.6.3				
c.) Successful analysis of a blind performance sample on a similar test method using the	7 111 101 0 , 1.0.0			567	
same technology;					
d.) Analysis of at least 4 consecutive lab control samples with acceptable levels of					
precision and accuracy;					
e.) A documented process of analyst review using QC samples.					
or f.) If one of the above cannot be performed, the analysis of real-world samples with results					
1.7 if one of the above earnor be performed, the analysis of real-world samples with results		1	<u> </u>		

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NYSDOH ELAP Quality Sy				ı	,	
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST	2016	Y	N	N/A	Codes	Comments
METHOD EVALUATION	NELAC					
within a predefined acceptance criterion are performed.						
Q. Additional ongoing DOC for microbiological tests:						
a.)Performance of an alternate adequate procedure for the field of accreditation, the					000c22a	
procedure and acceptance criteria documented in the laboratories quality system	M5,1.6.3.2					
b.)Analysis of one positive sample in duplicate for each target organism and test, with	, , , ,				000c22b	
results meeting the laboratory acceptance criterion for precision.						
c.)Analysis of one clean matrix fortified with a known quantity of the target organism, with						
results meeting the laboratory acceptance criteria for accuracy and where applicable to	M5, 1.6.3.2					
the testing technique, also meet the observational details expected for the presumptive,	,				000c22c	
confirmed and completed phases defined in the method.						
27.METHOD VALI	DATION			1	<u> </u>	
Limit of Detection (LOD), Detection Limit(DL), Method Dete		and	Limi	t of Qu	antitation (LC	OQ)
A. If a mandated test method or applicable regulation includes protocols for determining	· · · · · · · · · · · · · · · · · · ·	1				,
detection limits, they are followed.	M4,1.5.2.1				000c23	
B. The laboratory DL and LOQ procedure, unless following a mandated test method or	,					
procedure, at a minimum incorporates language addressing the following requirements:						
a)The DL reflects current conditions					000c24a	
b)The DL determination incorporated the entire analytical process					000c24b	
c)The DL determination includes data from low level spikes and routine method blanks					000c24c	
prepared and analyzed over multiple days; at least one low level spike and routine method	M4, 1.5.2.1.1					
d)A blank is analyzed on each applicable instrument; a minimum of 7 replicates required for	(a-f)				000c24d	
both low level spikes and routine method blanks						
e)Results from low level spikes used in the DL determination meet qualitative identification					000c24e	
criteria in the methods and are above zero						
f)The_DL procedure includes criteria for and evaluation of false positive rates in routine					000c24f	
method blanks					000 04	
g) The DL is determined for the analytes in each test methods in the quality system matrix of					000c24g	
interest in which there are neither target analytes nor interferences at a concentration that						
would impact the results, or the DL is performed in the sample matrix of interest.						
Note 1: The DL study is not required for methods/analytes for which a detection limit is not						
applicable and any component or property for which spiking solutions or quality control samples are not commercially available or otherwise inappropriate.						
Note 2: One option is to follow the USEPA MDL procedure effective September 27,2017.						
C. The limit of detection and quantitation supporting data is retained.	All MV, 1.5.2				000c25	
D. If the method or regulation does not contain specific directions for determinations of the	M4,1.5.2.1	+			000023	
detection limit, the following requirements are followed:	IVI 4 , 1.3.2.1					
actional milit, the following requirements are followed.	1		<u> </u>	<u> </u>		

NYSDOH ELAP Quality Sy						
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST	2016	Υ	N	N/A	Codes	Comments
METHOD EVALUATION	NELAC					
E. The laboratory determines the Detection Limit (DL) for the analytes of interest for each method					00c113a	
in the quality system matrix of interest in which there are neither targeted analytes nor	M4,1.5.2.1.1 (f)				00c113b	
interferences at a concentration that would impact the results, or the DL is performed in the	()					
sample matrix.						
F. The DL reflects current operating conditions	M4, 1.5.2.1.1				000c26	
G. The DL procedures include criteria for evaluation of false positive rates in routine method	M4, 1.5.2.1.1				000c27	
blanks.						
H. Results from low level spikes used in the DL determination meet qualitative identification.	M4, 1.5.2.1.1				000c28	
I. Al sample-processing steps of the analytical method include the determination of the DL.	M4, 1.5.2.1.1				00C114r	
	(b)					
J. The DL determination includes data from low level spikes and routine method blanks prepared						
and analyzed over multiple days; at least one low level spike and routine method blank must	M4, 1.5.2.1.1(c)				00c116a	
be analyzed on each applicable instrument; a minimum of 7 replicates is required for both low					00c116r	
level spikes and routine method blanks, that are analyzed on each applicable instrument. This						
verification is performed on every instrument that is to be used for analysis of samples and						
reporting of data.						
K. Where an DL study is not performed, the laboratory does not report a value below the Limit of					00c117r	
Quantitation.	M4, 1.5.2.1					
L. If results are not reported below the limit of quantitation (LOQ), an initial DL determination is					00c117a	
performed, but ongoing DL determination is not required.	M4,1.5.2.1					
LIMIT OF QUANTITATION and ON-GOING		QUI	REMI	ENIS		
M. The LOQ selected by the laboratory for each analyte is consistent with the needs of the client and greater than the DL	M4,1.5.2.2				00c117b	
N. All sample processing and analysis steps of the analytical method are included in the	M4, 1.5.2.2(b)				00c118ar	
determination of the LOQ.	,(0)					
O. The laboratory determines the Limit of Quantitation (LOQ) for each analyte of concern						
according to a defined, documented procedure.						
Note: The LOQ study is not required for any component or property for which spiking	M4,1.5.2.2				0C118	
solutions or quality control samples are not commercially available or otherwise						
inappropriate (e.g., pH).						
P. Each selected LOQ is verified through analysis of initial verification sample which consists of	M4, 1.5.2.2(a)				00c119r	
a spiked matrix blank at or below the selected LOQ.						
Q. The LOQ is at or above the lowest corresponding calibration standard concentration with the	M4,1.5.2.2				00c126	
exception of methods using a single point calibration.	(c)	_				
R. The laboratory established acceptance criteria for accuracy of the LOQ verification spikes.	M4,1.5.2.2				00c127	
	(d)					

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NYSDOH ELAP Quality Systems Checklist									
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST	2016	Υ	N	N/A	Codes	Comments			
METHOD EVALUATION	NELAC								
S. A minimum of 7 low level spikes at or below the LOQ concentration are processed through all	M4,1.5.2.2.1(a)								
steps of the method in at least 3 batches on 3 separate days.	(b)				00c128				
Note: Existing data may be used if compliant with the requirements for at least 3 batches	(0)				000.20				
generated within the last 2 years and representative of current operations.									
T. If multiple instruments are assigned the same LOQ, then these low-level spikes are distributed	M4,1.5.2.2.1(a)	1			00c129				
across all of the instruments.	(i)				000123				
U. A minimum of 2 low level spikes are prepared and analyzed on different days are tested on	M4,1.5.2.2.1(a)	1			00c130				
each instrument.	(ii)				000130				
V. The LOQ is verified and the following criteria are met;	(11)								
a.)All results are quantitative.					00c131a				
Note : Results are above zero and meet the qualitative identification criteria of the method.	M4,1.5.2.2.1				0001014				
b.)The mean recovery of each analyte is within the laboratory established accuracy	(C)(i-iii)				00c131b				
acceptance limits	(0)(1-111)				0001015				
c.)The LOQ is greater than the established DL and at or above the spiking concentration					00c131c				
W. a.) Ongoing verification of the DL includes assessment of spikes at or below the LOQ and					00c132a				
of method blanks at a minimum of one verification spike and one blank analyzed on					00C13Za				
each instrument during each quarter in which samples are analyzed and results	M4,								
reported below the LOQ.	1.5.2.1.2								
b.)These results meet the requirements of meeting the qualitative identification of the	1.J.Z.1.Z				00c132b				
methods and be above zero.					0001325				
c.)If the DL verification samples are to be used for the LOQ verification they must also					00c132c				
meet the criteria of the on-going LOQ requirements.					0001320				
X. If the method is altered in anyway other than routine maintenance, and a change can be									
expected to elevate the detection limit, then a spike at or below the LOQ concentration and a	M4,				00c133a				
blank are analyzed. If the spike at the LOQ concentration gives a result meeting qualitative	1.5.2.1.2				00C133a				
identification criteria above zero, and the blank gives a result below the DL, then the DL is	1.3.2.1.2				00c133b				
verified. If not the DL is redetermined.					0001338				
Y. In the event that the verification fails, the laboratory performs a new DL study within 30	M4,	1			00c134				
calendar days.	1.5.2.1.2				000134				
Z. When a new DL is determined, the laboratory verifies that the LOQ is greater than the DL. If it	1.0.2.1.2	-							
is not, the laboratory raises the LOQ value to greater than the DL.									
Note: The EPA MDL procedure states that if the verified MDL is within 0.5 to 2.0 times the	M4,								
existing MDL, and fewer than 3% of the method blank results (for the individual	1.5.2.1.3				00c135				
analyte) have numerical results above the existing MDL, then the existing MDL may	1.0.2.1.0				000100				
optionally be left unchanged. Otherwise, adjust the MDL to the new verification									
MDL. (EPA 821-R-16-006)									
MDE. (El 71021 11 10 000)									
	1	<u> </u>							

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Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST 2016 Y N N/A Codes Comments									
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST METHOD EVALUATION	2016 NELAC	Y	N	N/A	Codes	Comments			
AA. A new DL/LOQ verification is performed prior to analysis of client samples if no analysis was	1122/10								
performed in a given year.	M4,1.5.2.3				00c136				
Note: Verification of the DL/LOQ is not required if no analysis is performed in a given year.	,								
BB. If the LOQ is less than or equal to the DL, the LOQ is raised to greater than the DL.	M4,1.5.2.2.1				00c137				
	(c)(iii)								
CC. For the ongoing verification of the LOQ the laboratory prepares and analyzes a minimum of	, , ,								
one verification sample spiked at the same concentration as the initial LOQ verification on					00c138a				
each instrument during each quarter in which samples are analyzed for each quality system	M4,								
matrix, method and analyte.	1.5.2.2.2								
Note: If different spike concentrations were used for the initial DL and initial LOQ					00c138b				
verification, then different spike concentrations are required for the ongoing									
verifications of the DL and LOQ as well.									
DD. For the ongoing verification of the LOQ: the laboratory evaluated the results of each LOQ									
verification sample at the time of testing and meets the qualitative identification criteria of the	M4,				00c139r				
method and laboratory SOP and the quantitated result is greater than the DL and meets the	1.5.2.2.2(a)								
laboratory established accuracy criteria.									
EE. If a continuing LOQ verification test does not meet this requirement, the laboratory takes	M4,1.5.2.2.2(b)				00c140				
corrective action and documents a technically valid reason for the corrective action.									
FF. The corrective action is one of the following;									
a.) Correcting method or instrument performance and repeating the verification test	M4.4.5.0.0.0(b)				00-444				
b.)Evaluating the laboratory established control limits to ensure that they reflect current	M4,1.5.2.2.2(b)				00c141				
performance, or	(i-iii)								
c.)_Raising the spike level(and the quantitation limit if the spike level is above it) and									
repeating the initial verification study within 30 calendar days of the initial failure. GG. Samples analyzed in a batch associated with a failing LOQ verification are reanalyzed or	M4,1.5.2.2.2(b)				00c142				
reported with qualifiers.	1014, 1.3.2.2.2(0)				000142				
HH. Annual assessment of on-going verification testing of the DL and LOQ is performed and									
uses all data representative of the current operations.	M4,1.5.2.4				00c143				
Note: A minimum of 7 samples is required if generated in the last 2 years.	,								
II. The following information is documented for the annual assessment of the DL and LOQ:									
a.)Analytical and preparation methods used					00c144a				
b.) Dates of preparation and testing					00c144b				
c.) Batch identifiers					00c144c				
d.)Testing instrument					00c144d				
e.)Quality system matrix	M4,1.5.2.4				00c144e				
f.) Technology	(a)				00c144f				
g.) Analyte					00c144g				

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NYSDOH ELAP Quality Sy	stems Chec	KIIS	τ					
Relevant Aspect of Standards – DEMONSTRATION OF CAPABILITY AND INITIAL TEST	2016	Υ	N	N/A	Codes	Comments		
METHOD EVALUATION	NELAC							
h.)Concentration in the spiked sample with units					00c144h			
i.)Test result for each LOQ and/or DL verification test					00c144i			
JJ. The following information is documented for each analyte for the annual assessment of the					0001441			
DL and LOQ:								
	M4 1 5 0 4				00c145a			
a.) Percent recovery	M4,1.5.2.4				00c145a 00c145b			
b.) The number of results(n)	(b)				00c145b			
c.) Mean and standard deviation of the percent recovery								
d.) Spiking concentration of the spiked sample with units	DIAG				00c145d			
PRECISION AND	BIA2			I				
KK. When using reference methods, the laboratory evaluates the precision and bias of a					00C120			
reference method for each analyte of concern for each quality system matrix according to	M4, 1.5.3(a)							
the single-concentration four-replicate recovery study procedures (or alternate procedure								
documented in the quality manual when the analyte cannot be spiked into the sample matrix								
and QC samples are not commercially available).								
LL. When using non-reference methods for laboratory-developed test methods or non-reference	M4, 1.5.3(b)				00C121			
test methods, the laboratory has a documented procedure to evaluate precision and bias.								
MM. The laboratory compares results of the precision and bias measurements with criteria					00C122			
established by the client, by criteria given in the reference method or criteria established by	M4, 1.5.3(b)							
the laboratory.								
NN. The precision & bias measurements evaluate the test method across the analytical								
calibration range of the method.								
Note: Examples of systemic approach to evaluate precision & bias could be: (i) a validation								
protocol, such as the Tier I, Tier II, and Tier III requirements in US EPA Office of	M4, 1.5.3(b)				00C123			
Water's Alternate Test Procedure (ATP) approval process, or (ii) replicate analysis of	, ,							
quality control samples at or near the LOQ, at the upper range of the calibration, & at								
a mid-range concentration, processed on different days as 3 sets of samples through								
the entire measurement system for each analyte of interest.								
OO. The laboratory evaluates precision and bias in the relevant quality system matrices	M4,1.5.3(b)				00c124			
EVALUATION OF SELECTIVITY								
PP. The laboratory evaluates selectivity by following the checks established within the method.								
Note: This may include mass spectral tuning, second column confirmation, ICP	M4, 1.5.4				00C125			
Interelement interference checks, chromatography retention time windows, sample	,							
blanks, spectrochemical absorption or fluorescence profiles, co-precipitation								
evaluations, and electrode response factors.								

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