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Audits and Assessments

1 Guiding Principles and Scope

- 1.1 Audits and assessments are conducted to improve the quality of the laboratory, as well as to maintain compliance with accreditation standards such as ISO 17025, the ANAB Accreditation Requirements, and the FBI Quality Assurance Standards for Forensic DNA Testing.
- 1.2 An *Internal Audit* is an audit conducted by qualified and trained auditors employed by the Department of Forensic Biology. An *External Audit or Assessment* is an audit conducted by qualified and trained auditors/assessors employed by an agency external to the Department of Forensic Biology.
- 1.3 This document describes the external audits/assessments to which the Department of Forensic Biology is subject and the internal audit program of the Department.

2 Procedure

- 2.1 The management system of the Department of Forensic Biology is designed to conform to the following sets of standards:
- 2.2 **ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration** Laboratories: These requirements are assessed by ANAB under their *ASCLD/LAB International* accreditation program.
- 2.3 **ANAB** ISO/17025 Forensic Science Testing and Calibration Laboratories Accreditation requirements: These standards are **based on the ISO/IEC 17025 standards, but are made specific to Forensic Science laboratories. These standards are also** assessed by ANAB under their *ASCLD/LAB International* accreditation program.
- 2.4 **FBI Quality Assurance Standards for Forensic DNA Testing: These standards are** issued by the FBI Director and **are** a set of standards specific to Forensic DNA Testing (mitochondrial and autosomal). ANAB also requires compliance with these standards as a condition of accreditation.

3 External Audits/Assessments

3.1 The Department is subject to external accreditation assessments/surveillance visits (on-site and off-site) as required by ANAB.

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3.1.1	Assessment/surveillance activity scheduling and the assessment/surveillance process a the responsibility of ANAB.			
3.1.2	Any findings of nonconformance (as defined by ANAB) identified during the assessment/surveillance activity are submitted to the Quality Assurance Manager and laboratory Director for review and approval and must be corrected to the satisfaction ANAB before a recommendation for accreditation is made. A proposed remediation action plan is submitted to the lead assessor, typically within 30 days of the assessment/surveillance activity. Once the action plan has been approved, the remediation actions should be completed within 60 days of the assessment/surveillance activity.			
3.1.3	The la visits	aboratory maintains the following records from external a	assessments/ surveillance	
	3.1.3.1	Written audit plan		
	3.1.3.2	Audit reports		
	3.1.3.3	Summary of assessment/ surveillance visit results and	remediations	
	3.1.3.4	Records of communication with the audit team/ ANAB	B/ DCJS	
5.2		nal DNA audit to ensure the Department's conformance ssurance Standards for Forensic DNA Testing is conduct lar years.		
3.2.1	An external DNA audit could occur as part of ANAB assessment activity or could be stand-alone DNA audit.			
3.2.2	For an external DNA audit to "count," it must occur at least 6 months, but no more the 18 months, after an internal or external DNA audit conducted during the prior calend year.			
3.2.3		udit must be conducted with the version of the FBI DNA at the time of the audit.	QAS audit document in	
3.2.4	The audit document and nonconformances identified during the audit are submitted to the Quality Assurance Manager and the DNA Technical Leader(s) for review and for approval of proposed follow-up actions.			
3.2.5	A copy of the DNA audit documentation and laboratory responses to nonconformance is provided to the Laboratory's CODIS Custodian as well as NDIS Custodian at the FI within 30 days of the laboratory's receipt of the audit report.			

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3.2.6 The laboratory maintains the following records from external DNA audits:

3.2.6.1	Written audit plan
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- 3.2.6.2 Audit reports
- 3.2.6.3 Summary of audit results and remediations
- 3.2.6.4 Records of communication with the audit team/ ANAB/ DCJS/ FBI
- 3.2.6.5 Self-verification forms completed by the members of the audit team to certify their qualifications as auditors and experience with the DNA technologies and platform(s) used by the Department.
- 3.2.7 External audits outside of normal accreditation assessment or external DNA audit schedules may be required by ANAB or the New York State Commission on Forensic Science as a response to very serious quality incidents.
- 3.3 The Quality Assurance Manager (QAM) is the point of contact for any external audit or assessment of the laboratory that concerns the technical operations of the laboratory.

4 Internal Audits

- 4.1 The internal audit program is a critical component of the Department's management system. It is designed to ensure that the Department's management system is functioning correctly, and that the Department is operating in compliance with its own procedures as well as regulatory and accreditation requirements.
- 4.2 The internal audit program consists of two parts: (1) audits to evaluate the laboratory's conformance with respect to the management system, including the testing activities, and with the ISO/IEC 17025 and ANAB Accreditation Requirements and (2) DNA audits to evaluate the laboratory's conformance with respect to the FBI's Quality Assurance Standards for Forensic DNA Testing Laboratories.

5 General Internal Audit Information

- 5.1 The Quality Assurance Manager (QAM) is responsible for scheduling and planning the internal audits of the laboratory. Scheduling is done in consultation with the Technical Leaders, Deputy Director(s), and the Director.
 - 5.1.1 Should an audit require personnel from external organizations, the QAM will take into consideration the schedule and availability of these external auditors prior to agreeing to a date.

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5.1.2					
5.1.3	Testi	DNA audits using "The FBI Quality Assurance Standards Audit for Forensic DNA Testing Laboratories" are performed each calendar year. However, internal audits are optional in calendar years when external DNA audits have been conducted.			
5.1.4		QAM selects auditors to ensure that an audit team is "qualified" as per the uirements for each type of audit.			
5.1.5		audit team has a lead auditor/team leader. The QA r develop a written audit plan that, at a minimum, co			
	5.1.5.1	The standards that will be used during the audit.			
	5.1.5.2	The audit schedule.			
	5.1.5.3	The scope of activities to be audited.			
	5.1.5.4	The number of Forensic Biology casefiles the au that the laboratory is in conformance with all acc own management system.			
	5.1.5.5	Instruction for the audit team to observe at least of performed in real-time. This can be done by the is assigned to one auditor acting on behalf of the te	individual auditors, or may be		
	5.1.5.6	The expected manner in which conformance with and the laboratory's own management system wi team (ex. Excel spreadsheets, Field Guides, audit	ill be documented by the audit		
	5.1.5.7	The names of the audit team(s) members assigne activities	d to audit the specified		
5.1.6	The g	eneral process for any internal audit is as follows:			
	5.1.6.1	The QAM notifies the laboratory that an internal general scope of the audit, and provides an appro information may be disseminated during lab mee	oximate timeframe. This		
	5.1.6.2	The QAM schedules an opening conference with audit objectives, assignments, timing, documenti observations and the final report format.			
	5.1.6.3	The auditors perform their audit activities to asse	ess the soundness of the quality		

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	syster	n, management system, and technical operati	ons.
		udit teams provide the QAM with a final repo ling potential nonconformances and all record	
5.1.6.5	5 The QAM discusses preliminary observations (if any) with management.		
5.1.6.5	5.1	Nonconformances that are non-systemic, a not indicate serious deficiencies in the mar corrected prior to the completion of the au	nagement system can be
5.1.6.5	5.2	The correction is documented in the audit the final audit report.	records, but is not included in
5.1.6.6	reviev findin appro Mana	AM, Technical Leaders, and other manager(w the audit results submitted by the audit team ags are true nonconformances supported by of priate remediation actions as needed. These r gement huddles (as the audit process is on-go next Management weekly meeting which occ leted.	ns, verify whether any noted bjective evidence and approve eviews may take place during bing) or as a final discussion
5.1.6.7 The <u>CONTROL OF NON-CONFORMING WORK</u> procedure and <u>QUALITY INCIDENT REVIEW</u> procedure may be used for follo non-conformances identified in the audit report. The laboratory see remediate any nonconformances within 60 days of the completion		be used for follow-up on audit ne laboratory seeks to	
5.1.6.7	7.1	Typically, audit activities, including findin	
		are summarized by the QAM for dissemina CODIS Custodian, the NYS Commission of or the board members of the National DNA (as applicable).	on Forensic Science, ANAB,
5.1.6.7	7.2	Findings and remediation actions are sent to general laboratory via email.	to accrediting bodies and the
5.1.6.7	7.3	If audit non-conformances show that labor affected, the laboratory must notify its cust agency of the results, in writing, within thi	tomers and accreditation
5.1.6.8	result the gu	reports and affiliated auditing documents, in s and remediations are a form of records and aiding principles of the laboratory. See <u>CON</u> er information.	shall be retained according to

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6 Information Specific to Internal "ISO" Audits

- 6.1 The scope of the internal audit must ensure that all elements of the management system are addressed.
- 6.2 Auditors are "qualified" in any of the following ways:
 - 6.2.1 Documented completion of an ANAB/ASCLD/LAB-*International* assessor training course.
 - 6.2.2 Documented completion of an external ISO/IEC 17025 training course and auditor training conducted in-house by a qualified auditor such as the QAM.
 - 6.2.3 Documented completion of ISO/IEC 17025 and auditor training conducted in-house by a qualified auditor such as the QAM.
- 6.3 Only qualified auditors will be selected to lead an internal audit team. Staff that has not completed the required training may be used as team auditors, but they must report directly to a qualified auditor.

7 Information Specific to Internal DNA Audits

- 7.1 DNA internal audits are conducted using "The FBI Quality Assurance Standards Audit for Forensic DNA Testing Laboratories."
- 7.2 Auditors are "qualified" to conduct DNA audits if they have successfully completed an FBIsponsored DNA Auditing Workshop/Course.
- 7.3 The DNA audit team must contain at least one qualified auditor and at least one person that is, or has previously been, a qualified analyst for each specific DNA technology (*technology is used to describe the type of forensic DNA analysis performed in the laboratory, such as STR, YSTR, or mitochondrial DNA*) performed in the laboratory. This may be accomplished by having a single auditor who meets all of the specified qualifications or through a combination of various members of a multi-person audit team.

8 Annual Review of the Laboratory's Quality System

- 8.1 An annual review (calendar year) of the quality system is important for ensuring that measures are being taken by the laboratory to continually provide the highest quality of service. The annual review is intended to identify areas in need of attention and provide the basis for any potential changes to the quality system.
- 8.2 The annual review of the laboratory's quality system is performed under the direction of the

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	technical leader(technical leader((s) and the completion of the review is documente (s).	d and approved by the
8.3		l quality system documents that are updated or re	
		his additional annual review, as that review is add	lressed in the yearly
	Management Sy	stem review.	
8.4	This annual revi	ew of the quality system is independent of interna	al and external audits
8.5	be conducted as forensic DNA an technical leader files under revie calendar year or be used as the re may vary from y corrective action on a percentage be selected based complexity of th available for rev assault cases, a p	w, including a sampling of cases that include DN part of the annual quality system review in order nalysis. The scope of the review must be defined a and address both the representative sample and th w. For example, the time period may include case for a specified period of time. The technical lead presentative sample for the annual review, and th year to year. The technical leader may select the sams, perceived analytical gaps, and/or at random. The or a specified number of cases. Additionally, the d on the forensic samples tested, technology, conde typing results, or cases where testimony has occi iew. As examples, a representative sample may b percentage of all YSTR cases, a specific number of cific number of complex mixture cases.	to evaluate the products of and approved by the he time period of the case e files from the previous er will determine what will e representative sample ampling based on he sampling may be based representative sample may clusions reported, curred and transcripts were e a percentage of all sexual
8.6		ew of case records cannot be used to replace the r	eview of case records that

occurs during internal and external audits or the technical review process.