

Kansas Administrative Regulations

Department of Health and Environment

Article 15.—Application for Permits; Domestic Water Supply

28-15-36a. Requirements for field laboratory certification.

(a) Fields of accreditation. Certification of a field laboratory shall be granted only to laboratories performing environmental analyses that are limited to one or more of the following fields of accreditation:

- (1) Dissolved oxygen;
- (2) free residual chlorine;
- (3) hydrogen ion (pH);
- (4) sulfite;
- (5) temperature;
- (6) total residual chlorine; or
- (7) turbidity.

(b) Personnel. Laboratory management shall maintain documentation that demonstrates each analyst meets the following minimum qualifications:

- (1) A high school diploma or equivalent;
- (2) knowledge of the use of analytical equipment and support equipment used for the analysis of the fields of accreditation listed in subsection (a); and
- (3) training received and written approval by laboratory management to perform the analytical methods for the fields of accreditation being considered for certification consistent with the training program developed by laboratory management for those analytical methods.

(c) Supplies, reagents, standards, and equipment.

- (1) All items necessary for the performance of the analyses shall be available.
- (2) Reagents and standards shall not exceed the labeled expiration date.
- (3) Equipment shall be properly maintained and in working order.

(4) Automated in-line equipment shall be maintained and calibrated according to manufacturer's instructions. The calibration and maintenance of automated equipment shall be documented.

(d) Analytical methods. Each sample analyzed for the fields of accreditation specified in subsection (a) shall be analyzed in accordance with the EPA-approved method or methods that applies to the test being performed as follows:

(1) Drinking water samples tested for compliance with the SDWA shall be analyzed in accordance with methods approved in 40 C.F.R. 141.23 and 141.74, as in effect on July 1, 2020, which are hereby adopted by reference, including the methods specified in the tables at 40 C.F.R. 141.23(k)(1) and (2) and 141.74(a)(1) and (2), or another method determined by the secretary to be functionally equivalent.

(2) Environmental water samples tested for compliance with the CWA shall be analyzed in accordance with methods approved in 40 C.F.R. 136.3, as in effect on July 1, 2020 and as amended by 86 fed. reg. 27237-27260 (2021), which are hereby adopted by reference, including the methods specified in tables IA, IB, IC, ID, IE, IF, IG, and IH, or another method determined by the secretary to be functionally equivalent.

(3) Environmental samples analyzed under the RCRA shall be analyzed in accordance with methods specified in the permit issued by the state of Kansas pursuant to K.S.A. 65-3407 or 65-3437, and amendments thereto, or any order of the department or agreement with the department.

(e) Sample collection and handling. Each sample collected by laboratory management for field laboratory analysis shall be analyzed within 15 minutes of collection. The temperature of each sample shall be read and recorded at the sample collection site.

(f) Quality assurance.

(1) Laboratory management of each field laboratory shall implement and maintain a detailed, written standard operating procedure for collection, analysis, reporting, and data handling.

(2) Each instrument shall be calibrated on each day of use, except for temperature analysis and instruments required to be calibrated by the manufacturer in accordance

with approved methods. Calibration range shall bracket the sample measurement, except for the analysis of dissolved oxygen, which utilizes a one-point calibration.

(3) Each calibration shall be verified with a quality control standard. If verification is not within acceptance criteria set by the method or manufacturer, the laboratory management shall recalibrate the instrument or remove the instrument from service. If the method or manufacturer does not state quality control acceptance criteria, the laboratory management shall use acceptance limits determined by ELIPO.

(4) Each aliquot of a solution used for calibration and quality control shall be used only once.

(g) Data handling.

(1) All records relating to data reported for regulatory compliance purposes shall be retained by the laboratory management for at least five years. This requirement shall include the following if applicable:

(A) Calibration or standardization information, or both, including lot numbers, expiration dates of reagents, and times of calibration;

(B) quality controls, including standards and duplicates;

(C) calculations;

(D) sampling and analytical information; and

(E) reports.

(2) The sampling and analytical data to be retained shall include the following:

(A) The date, time, and location of sampling and analysis;

(B) the name of the person collecting the sample;

(C) the name of the analyst; and

(D) the type of analysis, method utilized, and results.

(h) Interim certification. Laboratory management requesting certification for a field of accreditation for which the laboratory is not certified shall submit the following to the department for the secretary's consideration for approval of interim certification:

(1) An application or field of accreditation addition request;

(2) all applicable fees specified in K.A.R. 28-15-37;

(3) detailed written procedures for each field of accreditation for which the laboratory management is seeking certification; and

(4) documentation that the laboratory management has obtained all required equipment, reagents, and standards for the laboratory that are necessary to perform the analysis.

(i) Notification of personnel change. The laboratory management of a certified field laboratory shall notify ELIPO, in writing, within 30 days of any changes in analytical equipment, personnel, facility location, facility name, or facility ownership. If any changes in personnel take place, the laboratory management of a certified field laboratory shall be responsible for the placement and training of individuals meeting the qualification requirements specified in subsection (b).

(Authorized by K.S.A. 65-1,109a; implementing K.S.A. 65-171l and 65-1,109a; effective Jan. 24, 1994; amended May 25, 2001; amended June 1, 2007; amended Oct. 25, 2024.)

***** Authenticated Kansas Administrative Regulation *****