Stormwater Monitoring CEU Training Course $100.00
48 HOUR RUSH ORDER PROCESSING FEE ADDITIONAL $50.00

Start and Finish Dates: ____________________________
You will have 90 days from this date in order to complete this course

List number of hours worked on assignment must match State Requirement. ________

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I have read and understood the disclaimer notice on page 2. Digitally sign XXX

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Operator ID #_______________________________Exp. Date____________________

Class/Grade________________________________________

Please circle/check which certification you are applying the course CEU’s.
Pretreatment ___    Collection___    Wastewater Treatment ___

Other ___________________________

Technical Learning College   TLC PO Box 3060, Chino Valley, AZ 86323
Toll Free (866) 557-1746   Fax (928) 272-0747   info@tlch2o.com

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Texas Students Only
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By signing this form, I acknowledge that Technical Learning College notified me of the following:

- the potential ineligibility of an individual who has been convicted of an offense to be issued an occupational license by the Texas Commission on Environmental Quality (TCEQ) upon completion of the educational program;
- the current TCEQ Criminal Conviction Guidelines for Occupational Licensing, which describes the process by which the TCEQ’s Executive Director determines whether a criminal conviction:
  - renders a prospective applicant an unsuitable candidate for an occupational license;
  - warrants the denial of a renewal application for an existing license; or
  - warrants revocation or suspension of a license previously granted.
- the right to request a criminal history evaluation from the TCEQ under Texas Occupations Code Section 53.102; and
- that the TCEQ may consider an individual to have been convicted of an offense for the purpose of denying, suspending or revoking a license under circumstances described in Title 30 Texas Administrative Code Section 30.33.

Enrollee Signature: __________________________________ Date: __________

Name of Training Provider/Organization: Technical Learning College

Contact Person: Melissa Durbin  Role/Title: Dean
For Texas TCEQ Wastewater Licensed Operators

Important Information

Wastewater/Collections Rule Changes (Texas Only)

Rule Changes and Updates for Domestic Wastewater Systems

Some of the changes to Chapter 217 include:
- Adding new definitions and clarifying existing definitions;
- Adding design criteria and approval requirements for rehabilitation of existing infrastructure;
- Adding design criteria for new technologies, including cloth filters and air lift pumps;
- Making changes to reflect modern practices, standards and trends;
- Modifying rule language to improve readability and enforceability; and
- Modifying the design organic loadings and flows for a new wastewater treatment facility.

SUBCHAPTER A: ADMINISTRATIVE REQUIREMENTS §§217.1 - 217.18
Effective December 4, 2015 §217.1. Applicability. (a) Applicability. (1) This chapter applies to the design, operation, and maintenance of: (A) domestic wastewater treatment facilities that are constructed with plans and specifications received and approved by the executive director after the effective date of the amendments to this chapter; (B) treatment units that are altered, constructed, or re-rated with plans and specifications received and approved by the executive director after the effective date of the amendments to this chapter; (C) collection systems that are constructed with plans and specifications received and approved by the executive director after the effective date of the amendments to this chapter; (D) collection system units that are altered, constructed, or re-rated with plans and specifications received and approved by the executive director after the effective date of the amendments to this chapter; (E) existing domestic wastewater treatment facilities that do not have a current Texas Pollutant Discharge Elimination System permit or a Texas Land Application Permit and are required to have an active wastewater permit; (F) existing wastewater treatment facilities and collection systems that never received approval for plans and specifications from the executive director; and (G) collection system rehabilitation projects covered in §217.56(c) and §217.69 of this title (relating to Trenchless Pipe Installation; and Maintenance, Inspection, and Rehabilitation of the Collection System). (2) Domestic wastewater treatment facilities, treatment units, collection systems, and collection system units with plans and specifications approved by the executive director that were received on or after August 28, 2008 and before the effective date of this chapter must comply with the rules in this chapter, as they existed immediately before the effective date of the amendments to this chapter.

The rules in Texas Commission on Environmental Quality Page 2 Chapter 217 - Design Criteria for Domestic Wastewater Systems effect immediately before the effective date of the amendments to this chapter are continued in effect for that purpose. (3) This chapter does not apply to: (A) the design, installation, operation, or maintenance of domestic wastewater treatment facilities, treatment units, collection systems, or collection system units with plans and specifications that were approved by the executive director on or before August 27, 2008, which are governed by Chapter 317 of this title (relating to Design Criteria Prior to 2008) or design.
criteria that preceded Chapter 317 of this title; and (B) systems regulated by Chapter 285 of this
title (relating to On-Site Sewage Facilities); or collection systems or wastewater treatment
facilities that collect, transport, treat, or dispose of wastewater that does not have the
characteristics of domestic wastewater, although the wastewater may contain domestic
wastewater.

(b) The executive director may grant variances from new requirements added by the
amendments of this chapter to a person who proposes to construct, alter, or re-rate a collection
system or wastewater treatment facility if the plans and specifications for the project are
submitted within 180 days after the date the amendments to this chapter are effective, provided
the plans and specifications comply with the rules in effect immediately prior to the amendment.
Adopted November 4, 2015 Effective December 4, 2015

The link to the rules is available on the TCEQ website at
https://www.tceq.texas.gov/rules/indexpdf.html

For Texas Students Only....

Please sign and date this notice

Printed Name

_____________________________________________________

Signature       Date

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Stormwater Monitoring Answer Key

Name___________________________________

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You are solely responsible in ensuring that this course is accepted for credit by your State. No refunds. Did you check with your State agency to ensure this course is accepted for credit?

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You are responsible to ensure that TLC receives the Assignment and Registration Key. Please call us to ensure that we received it.

You can use Adobe Acrobat DC Program to complete the assignment.

Please circle, underline, bold or X only one correct answer

10. A B C D E F  25. A B C D E F  40. A B C D E F
12. A B C D E F  27. A B C D E F  42. A B C D E F
This course contains general EPA’s CWA federal rule requirements. Please be aware that each state implements wastewater/safety/environmental/building regulations that may be more stringent than EPA’s regulations. Check with your state environmental/health agency for more information. These rules change frequently and are often difficult to interpret and follow. Be careful to be in full-compliance and do not follow this course for proper compliance.
STORMWATER MONITORING CEU TRAINING COURSE
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Stormwater Monitoring CEU Training Assignment

The Assignment (Exam) is also available in Word on the Internet for your Convenience, please visit www.ABCTLC.com and download the assignment and e-mail it back to TLC.

You will have 90 days from the start of this course to complete in order to receive your Professional Development Hours (PDHs) or Continuing Education Unit (CEU). A score of 70% is necessary to pass this course. We prefer if this exam is proctored. No intentional trick questions. If you should need any assistance, please email all concerns and the completed manual to info@tlch2o.com.

We would prefer that you utilize the enclosed answer sheet in the front, but if you are unable to do so, type out your own answer key. Please include your name and address on your Answer Key and make copy for yourself. You can e-mail or fax your Answer Key along with the Registration Form to TLC. (S) Means answer may be plural or singular. Multiple Choice Section, One answer per question and please use the answer key.

Clean Water Act (Rule) Summary
33 U.S.C. s/s 1251 et seq. (1977)
1. Which of the following terms has clarified and expanded permit requirements under the Clean Water Act for 19,000 municipal sanitary sewer collection systems in order to reduce sanitary sewer overflows?
   A. Clean Water Act or CWA   D. EPA still retains oversight responsibilities
   B. Water quality levels   E. Environmental Protection Agency (EPA)
   C. Clean water legislation   F. None of the Above

2. The requirements will help communities improve some of water quality standards–by requiring facilities to develop and implement new capacity, management, operation, and maintenance programs and public notification programs.
   A. True   B. False

3. The Clean Water Act is a 1977 amendment to the ____________, which set the basic structure for regulating discharges of pollutants to waters of the United States.
   A. Clean Water Act or CWA   D. EPA
   B. Federal Water Pollution Control Act of 1972   E. Valuable wetlands
   C. Clean water legislation   F. None of the Above

4. Which of the following terms gave the authority to set effluent standards on an industry basis and continued the requirements to set water quality standards for all contaminants in surface waters?
   A. Clean Water Act or CWA   D. Water quality standard(s)
   B. EPA   E. Public notification program(s)
   C. Congress   F. None of the Above

5. The CWA makes it unlawful for any person to discharge any pollutant from a point source into navigable waters unless a permit (NPDES) is obtained under the?
   A. Act   D. EPA
   B. Water quality levels   E. OSHA
   C. Clean water legislation   F. None of the Above

6. Which of the following terms focused on toxic pollutants?
   A. Clean Water Act or CWA   D. Water quality standard(s)
   B. EPA   E. The 1977 amendments
   C. Congress   F. None of the Above
7. The CWA provisions for the delegation by this term of many permitting, administrative, and enforcement aspects of the law to state governments. In states with the authority to implement CWA programs, the EPA retains oversight responsibilities.
A. Clean Water Act or CWA  D. EPA
B. Water quality levels  E. Valuable wetlands and other aquatic habitats
C. Clean water legislation  F. None of the Above

8. Which of the following terms is the primary federal law that protects our nation’s waters, including lakes, rivers, aquifers, and coastal areas. Lake Erie was dying?
A. Clean Water Act  D. Water quality standard(s)
B. EPA  E. Public notification program(s)
C. Congress  F. None of the Above

9. Which of the following terms primary objective is to restore and maintain the integrity of the nation’s waters?
A. Clean Water Act  D. EPA still retains oversight responsibilities
B. Water quality levels  E. Valuable wetlands and other aquatic habitats
C. Clean water legislation  F. None of the Above

10. Which of the following terms focuses on improving the quality of the nation’s waters?
A. Clean Water Act  D. Water quality standard(s)
B. EPA  E. Public notification program(s)
C. Congress  F. None of the Above

11. Which of the following terms requires major industries to meet performance standards to ensure pollution control; charges states and tribes with setting specific water quality criteria appropriate for their waters and developing pollution control programs?
A. Clean Water Act  D. EPA oversight responsibilities
B. Water quality levels  E. Valuable wetlands and other aquatic habitats
C. Clean water legislation  F. None of the Above

Stormwater Introduction

12. Stormwater precipitation is caused by some type of runoff.
A. True  B. False

13. Stormwater problems can contribute to raising of water quality of water sources; this is by decreasing the flow of human pollutants such as oil, fertilizers and pesticides, and the flow of natural elements such as phosphorus, into the water (stormwater quality impacts).
A. True  B. False

14. Degradation of lakes, streams and wetlands has economic effects: it reduces property values, raises bills from public water utilities, raises local property tax rates, and reduces tourism and related business income.
A. True  B. False

15. The U.S. Environmental Protection Agency (EPA) estimates that 6% of the water quality problems in the nation are caused by nonpoint sources.
A. True  B. False

16. Stormwater runoff has no quantity and quality impacts.
A. True  B. False
17. Nonpoint source (NPS) pollution is water pollution that consists of contaminated runoff associated with agricultural, urban, and other sources.
A. True  B. False

18. The term “nonpoint source pollution” was created under the federal Clean Water Act to distinguish it from “point source” discharges such as industrial wastewater from pipes.
A. True  B. False

19. Nonpoint sources include many varied small sources of pollutants from activities.
A. True  B. False

20. Every time it rains or the snow melts, pollutants such as dirt, nutrients, bacteria, oils and heavy metals, are swept off from land surfaces and are not carried by runoff water into surface and groundwater.
A. True  B. False

21. Stormwater runoff cannot cause flooding, undermine stream banks, and damage property and habitat, as well as carry contaminants that contribute to lower water quality.
A. True  B. False

22. When people speak about “stormwater quality control”, they are talking about reducing the pollutants from nonpoint sources that are carried by stormwater into our lakes, streams, groundwater, and coastal areas.
A. True  B. False

23. The Clean Water Act of 1776 passed by the United States Congress and amended by the Water Quality Act of 1812, set in motion requirements and policy measures for the Environmental Protection Agency (EPA).
A. True  B. False

24. The EPA has established regulatory components for Storm Water Discharges that were levied upon associated industries and municipalities with populations over 1,000,000.
A. True  B. False

25. The goal of NPDES, through permits and plans, is to reduce to the maximum extent practical, the amount of pollution discharges from the municipal storm drainage systems.
A. True  B. False

26. NPDES municipal permits have several components, one being management programs. A term frequently used in this subject matter is - Best Management Practices (BMP).
A. True  B. False

27. RMP’s are schedules of activities, prohibition of practices, maintenance procedures, and other recommended management practices that may be employed for a particular purpose - Storm Water Pollution Prevention and Reduction.
A. True  B. False

28. Although the OSHA regulations seem complex, their goal is simple - “Improve water quality in waters of the United States”.
A. True  B. False
Basic Program Requirements

29. Which of the following terms or objective is obtaining a baseline measurement of current water quality, discover and eliminate illicit connections to the system?
   A. In-Stream Monitoring Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

30. Which of the following terms or objective eliminating household hazardous waste from contaminating the storm water?
   A. In-Stream Monitoring Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

31. Which of the following terms or objective is creating a public awareness of the pollutional risk of misusing and improper disposal of chemicals?
   A. Public Education Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

32. Which of the following terms or objective is evaluating industrial storm water runoff locations and to perform physical site inspections and develop future pollution prevention plans?
   A. Public Education Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

33. Which of the following terms or objective is discovering and eliminating illicit connections to the storm sewer system?
   A. Public Education Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

34. Which of the following terms or objective is the analysis of the monitoring sites with a full scan of pollutants as required by the NPDES permit?
   A. Public Education Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Household Hazardous Waste Program
   C. Industrial Monitoring Program  
   F. None of the above

35. Which of the following terms or objective is reducing the amount of household hazardous waste disposed of improperly?
   A. Public Education Program  
   D. Stormwater Monitoring Program
   B. Illicit Connection Program  
   E. Recycling Program
   C. Industrial Monitoring Program  
   F. None of the above

36. NPDES stands for National Pollutant Discharge Elimination System.
   A. True  
   B. False

37. You will need an OSHA Permit if your discharge is composed entirely of storm water.
   A. True  
   B. False

38. Prior to October 1, 1994, discharges composed entirely of storm water shall not be required to obtain a NPDES permit except: A discharge with respect to which a permit has been issued prior to February 4, 1975.
   A. True  
   B. False
**Prohibited Discharge Standards**

39. Specific prohibitions forbid eight categories of pollutant discharges as follows: Discharges containing pollutants which create a fire or explosion hazard in the CMOM.
   A. True       B. False

40. Discharges containing pollutants causing corrosive structural damage to the POTW, but in no case discharges with a pH lower than 5.0, unless the POTW is specifically designed to accommodate such?
   A. Categorical pretreatment standards   D. Violation of the general prohibitions
   B. Pass through                    E. Flow rate and/or concentration
   C. Discharge(s)                F. None of the Above

41. Which of the following terms containing pollutants in amounts causing obstruction to the flow in the POTW resulting in interference?
   A. Interference or pass through   D. Eight categories of pollutant discharges
   B. Discharges                     E. Categorical pretreatment standards
   C. POTW                           F. None of the Above

42. Which of the following terms of any pollutants released at a flow rate and/or concentration which will cause interference with the POTW?
   A. Categorical pretreatment standards   D. Violation of the general prohibitions
   B. Pass through                    E. Flow rate and/or concentration
   C. Discharge(s)                F. None of the Above

43. Discharges of petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause?
   A. Interference or pass through   D. Eight categories of pollutant discharges
   B. Discharge or discharges        E. Categorical pretreatment standards
   C. POTW                           F. None of the Above

44. Which of the following terms which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems?
   A. Categorical pretreatment standards   D. Violation of the general prohibitions
   B. Pass through                    E. Flow rate and/or concentration
   C. Discharge(s)                F. None of the Above

45. Which of the following terms, except at discharge points designated by the POTW?
   A. Interference or pass through   D. Eight categories of pollutant discharges
   B. Discharge or discharges        E. Discharges of trucked or hauled pollutants
   C. POTW                           F. None of the Above

**Categorical Standards**

46. Categorical pretreatment standards are national, uniform, technology-based standards that apply to discharges to POTWs from specific industrial categories and limit the?
   A. Categorical pretreatment standards   D. Violation of the general prohibitions
   B. Pass through                    E. Flow rate and/or concentration
   C. Discharge of specific pollutants  F. None of the Above
47. Which of the following terms for both existing and new sources (are promulgated by the EPA pursuant to Section 307(b) and (c) of the CWA?
A. Categorical pretreatment standards  D. Violation of the general prohibitions
B. Pass through  E. Flow rate and/or concentration
C. Discharge(s)  F. None of the Above

48. Effluent limitations guidelines developed in conjunction with categorical standards.
A. True  B. False

CMOM - "Capacity, Management, Operation and Maintenance"
49. Which of the following terms is vital to protect public health, property, and waterways in the surrounding area?
A. Sanitary sewage overflows (SSOs)  D. Management, operation, and maintenance
B. Wastewater  E. Proper function of sanitary sewer systems
C. Clean decantible water  F. None of the Above

50. Which of the following terms occur every year, causing huge monetary losses, damage to fish/shellfish beds, polluting groundwater, and decreased tourism?
A. Public health and water quality  D. Dissolved organics
B. Disrepair  E. Undesirable solids
C. 40,000 Sanitary sewage overflows SSOs  F. None of the Above

51. Which of the following terms release raw sewage from the collection system before it can reach a treatment facility?
A. Sanitary sewage overflows (SSOs)  D. Management, operation, and maintenance
B. Wastewater  E. Full compliance with the Clean Water Act
C. Clean decantible water  F. None of the Above

52. Cities have used a wide variety of building materials, designs, and installation techniques, which aren’t durable enough to withstand heavy, continuous use.
A. True  B. False

53. The Management, Operation and Maintenance (MOM) Programs Project is a pilot enforcement approach developed by?
A. Clean Water Act  D. Water quality standard(s)
B. EPA  E. EPA Region 4
C. Congress  F. None of the Above

54. A SSO is a release of untreated wastewater before the flow reaches a treatment plant. SSOs pose a significant threat to public health and?
A. Public health and water quality  D. Dissolved organics
B. Disrepair  E. Certain compounds and undesirable solids
C. Water quality  F. None of the Above

Treatment Balance and the Effects of Undesirable Solids
55. Which of the following terms are balanced mixture of microorganisms which contact and digest the organics in the wastewater, and bacteria then grows on this media to treat the wastewater?
A. Sanitary sewage overflows (SSOs)  D. Management, operation, and maintenance
B. Wastewater  E. Full compliance with the Clean Water Act
C. Wastewater treatment plant  F. None of the Above
56. When a plant is properly maintained these bacteria or bugs eat the dissolved organics in the water, thus removing?
A. Public health and water quality
B. BOD, Ammonia, Nitrates, and Phosphorus
C. Sanitary sewage overflows SSOs
D. Dissolved organics
E. Certain compounds
F. None of the Above

57. The wastewater treatment process leaves extremely clean and reusable water that can be injected back into the ground, sent to ponds or used for?
A. Irrigation
B. Wastewater
C. Clean decantible water
D. Management, operation, and maintenance
E. Full compliance with the Clean Water Act
F. None of the Above

58. Which of the following terms and undesirable solids, like grease and grass clippings, can disturb this delicate balance and necessary process at the wastewater treatment facility?
A. Public health and water quality
B. Disrepair
C. Sanitary sewage overflows SSOs
D. Dissolved organics
E. Certain compounds
F. None of the Above

59. There are compounds and this term that should never be introduced into a sanitary sewer system.
A. Certain compounds
B. Wastewater
C. Clean decantible water
D. Dissolved organics
E. Mixtures
F. None of the Above

60. Which of the following terms include but are not limited to: cleaning solvents, grease, oils, pesticides, herbicides, antifreeze and other automotive products?
A. Deteriorating Sewer System
B. Pipe Failure(s)
C. Destructive compounds
D. Badly connected sewer service lines
E. Sanitary Sewer Overflows or (SSOs)
F. None of the Above

61. The solids include but are not limited to: plastics, rubber goods, grass clippings, metal products such as aluminum foil, beer or soda cans, wood products, glass, paper products such as disposable diapers and sanitary napkins. Items such as these disturb or even kill the delicate balance of microorganisms and bacteria that are needed to treat the wastewater.
A. True
B. False

**What are Sanitary Sewer Overflows?**

62. Sanitary Sewer Overflows (SSOs) are discharges of raw sewage from?
A. Deteriorating Sewer System
B. Pipe Failure(s)
C. Destructive compounds
D. Municipal sanitary sewer systems
E. Sanitary Sewer Overflows or (SSOs)
F. None of the Above

63. Which of the following terms can release untreated sewage into basements or out of manholes and onto city streets, playgrounds, and into streams before it can reach a treatment facility?
A. Deteriorating Sewer System
B. Pipe Failure(s)
C. Destructive compounds
D. Badly connected sewer service lines
E. SSOs
F. None of the Above
Why do Sewers Overflow?
64. Which of the following terms occasionally occur in almost every sewer system, even though systems are intended to collect and contain all the sewage?
A. SSOs  
B. Undersized Systems  
C. Sewer Service Connections  
D. Poor sewer collection system management  
E. Back-ups and sewer overflows  
F. None of the Above

Problems that Can Cause Chronic SSOs Include:
65. Which of the following terms is too much rainfall or snowmelt infiltrating through the ground into leaky sanitary sewers?
A. Deteriorating Sewer System  
B. Infiltration and Inflow (I&I)  
C. Destructive compounds  
D. Badly connected sewer service lines  
E. Sanitary Sewer Overflows or (SSOs)  
F. None of the Above

66. Which of the following terms: Sewers and pumps are too small to carry sewage from newly-developed subdivisions or commercial areas?
A. SSOs occasionally occur  
B. Undersized Systems  
C. Sewer Service Connections  
D. Poor sewer collection system management  
E. Back-ups and sewer overflows  
F. None of the Above

67. Which of the following terms: blocked, broken or cracked pipes, tree roots grow into the sewer, sections of pipe settle or shift?
A. Deteriorating Sewer System  
B. Pipe Failure(s)  
C. Destructive compounds  
D. Badly connected sewer service lines  
E. Sanitary Sewer Overflows or (SSOs)  
F. None of the Above

68. Which of the following terms discharges occur at sewer service connections to houses and other buildings?
A. SSOs occasionally occur  
B. Undersized Systems  
C. Sewer Service Connections  
D. Poor sewer collection system management  
E. Back-ups and sewer overflows  
F. None of the Above

69. Which of the following terms is improper installation, improper maintenance; widespread problems that can be expensive to fix develop over time?
A. Deteriorating Sewer System  
B. Pipe Failure(s)  
C. Destructive compounds  
D. Badly connected sewer service lines  
E. Sanitary Sewer Overflows or (SSOs)  
F. None of the Above

Why are SSOs a Problem?
70. Which of the following terms has found that SSOs caused by poor sewer collection system management pose a substantial health and environmental challenge?
A. Clean Water Act or CWA  
B. EPA  
C. Congress  
D. Water quality standard(s)  
E. 1977 amendments  
F. None of the Above

71. Many municipalities have asked for national consistency in the way permits are considered for wastewater discharges, including this term, and in enforcement of the law prohibiting unpermitted discharges.
A. Deteriorating Sewer System  
B. Pipe Failure(s)  
C. Destructive compounds  
D. Badly connected sewer service lines  
E. SSOs  
F. None of the Above
Combined Sewer Overflows
72. Which of the following terms are sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe?
A. Written MOM programs  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. Combined sewer systems
C. Water quality  F. None of the Above

73. Which of the following terms transport all of their wastewater to a sewage treatment plant, where it is treated and then discharged to a water body?
A. MOM program(s)  D. NPDES Compliance Inspection Manual
B. Combined sewer system(s)  E. Utility's CMOM or MOM programs
C. Utility's plan/schedule  F. None of the Above

74. Which of the following terms are designed to overflow occasionally and discharge excess wastewater directly to nearby streams, rivers, or other water bodies?
A. Written MOM programs  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. Combined sewer systems
C. Water quality  F. None of the Above

The Elements of a Proper CMOM Program
Utility Specific
75. The complexity and expense associated with a NPDES program is specific to the size and complexity of the Publicly Owned Treatment Works and related infrastructure.
A. True  B. False

Purposeful
76. Which of the following terms when present and properly maintained, they support customer service and protect system assets, public health, and water quality?
A. MOM programs  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. Combined sewer systems
C. Water quality  F. None of the Above

77. Which of the following terms have goals directed toward their individual purposes. Progress toward these goals is measurable, and the goals are attainable?
A. MOM program(s)  D. Proper MOM programs
B. Combined sewer system(s)  E. Utility's CMOM or MOM programs
C. Utility's plan/schedule  F. None of the Above

Uses Performance Measures
78. Performance measures should be established for each of this missing term in conjunction with the program goal.
A. MOM program  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. Combined sewer systems
C. Water quality  F. None of the Above

Periodically Evaluated
79. An evaluation of the progress toward reaching the goals, or missing term, should be made periodically and based upon the quantified performance measures.
A. A reassessment of the goals  D. NPDES Compliance Inspection Manual
B. Combined sewer system(s)  E. Utility's CMOM or MOM programs
C. Utility's plan/schedule  F. None of the Above
Available In Writing
80. The effectiveness of a MOM program quickly breaks down unless it is available in writing. Personnel turnover and lapses in communication between staff and management can change otherwise proper MOM programs to improper ones.
A. True  B. False

Implemented by Trained Personnel
81. Appropriate safety, equipment, technical, and program training is essential for implementing?
A. MOM program(s)  D. NPDES Compliance Inspection Manual
B. Combined sewer system(s)  E. Utility's CMOM or MOM programs
C. Utility's plan/schedule  F. None of the Above

What MOM programs should be audited?
82. Which of the following terms at a utility involves its entire wastewater infrastructure. Common utility management activities, operations and maintenance activities associated with sewer systems and pretreatment are listed in the Self-Audit Review Document?
A. Written MOM programs  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. MOM activity
C. Water quality  F. None of the Above
83. If a utility owns treatment works or a pond system, then activities associated with the management, operation, and maintenance of these facilities should also be included in the audit.
A. True  B. False

What are the elements of a proper Self-Audit?
Initial Assessment
84. Begin by performing a general assessment of the utility, and prioritizing the order of programs to be audited. Which of the following terms may be useful references in making this assessment?
A. Written MOM programs  D. Publicly Owned Treatment Works (POTW)
B. Program goal  E. NPDES Compliance Inspection Manual and Guidance
C. Water quality  F. None of the Above

Develop the Audit Plan
85. Identify the MOM programs present and/or needed at the utility, establish performance measures, and?
A. MOM program(s)  D. NPDES Compliance Inspection Manual
B. Combined sewer system(s)  E. Develop a schedule for auditing the programs
C. Utility's plan/schedule  F. None of the Above

Conduct the Audit
86. Evaluate each MOM program against the defined elements of a proper program. This can be accomplished by reviewing the program's records and resources, conducting a field evaluation, and comparing the program understanding of?
A. CMOM regulation(s)  D. Preventative operations
B. Both personnel and management  E. Recurrent SSOs
C. NPDES permit authority  F. None of the Above
Identify Deficiencies
87. Identify any permitted discharges which have occurred in the past seven years.
   A. True   B. False

Develop Improvement Plan
88. Define the utility’s plan/schedule to remediate the?
   A. Necessary improvements   D. Preventative operations
   B. Routine operation(s)       E. Recurrent SSOs
   C. NPDES permit authority   F. None of the Above

Prepare the Self-Audit Report
89. Which of the following terms including any deficiencies found and the corresponding improvement plan, which is useful for the utility?
   A. Audit results   D. Raw sewage
   B. Unpermitted discharges   E. Infiltration and inflow
   C. SSOs       F. None of the Above

Are there federal grants or other compliance assistance resources available to conduct a Self-Audit?
90. Which of the following terms offers a number of financial resources to assist qualified utilities in making improvements to their programs?
   A. Utility’s plan/schedule   D. Both personnel and management
   B. MOM Programs Self-Audit   E. Office of Wastewater Management
   C. SSOs       F. None of the Above

What Health Risks do SSOs present?
91. Which of the following terms contain raw sewage they can carry bacteria, viruses, protozoa, helminths, and borroughs?
   A. Self-audit results   D. Raw sewage
   B. Unpermitted discharges   E. Infiltration and inflow
   C. SSOs       F. None of the Above

People can be Exposed Through:
92. Which of the following terms such as basements, lawns or streets, or waters used for recreation?
   A. Utility’s plan/schedule   D. Both personnel and management
   B. MOM Programs Self-Audit   E. Capacity and/or reliability
   C. SSOs       F. None of the Above

93. One study indicates that an average of nearly 700 cases of illness per year were reported in the 1980s from eating shellfish contaminated by sewage and other sources. The number of unreported cases is estimated to be 20 times that.
   A. True   B. False

What other Damage can SSOs do?
94. Which of the following terms also damage property and the environment?
   A. Utility’s plan/schedule   D. Both personnel and management
   B. MOM Programs Self-Audit   E. Capacity and/or reliability
   C. SSOs       F. None of the Above
95. Which of the following terms enter oceans, bays, estuaries, rivers, lakes, streams, or brackish waters is their effect on water quality?

A. Self-audit results  
B. Unpermitted discharges  
C. SSOs  
D. Raw sewage  
E. Infiltration and inflow  
F. None of the Above

**How can SSOs be Reduced or Eliminated?**

96. Which of the following terms are caused by inadequate or negligent operation or maintenance, inadequate system capacity, and improper system design and construction?

A. Utility’s plan/schedule  
B. MOM Programs Self-Audit  
C. SSOs  
D. Both personnel and management  
E. Capacity and/or reliability  
F. None of the Above

97. Reducing which of the following terms through system rehabilitation and repairing broken or leaking service lines?

A. Self-audit results  
B. Unpermitted discharges  
C. SSOs  
D. Raw sewage  
E. Infiltration and inflow  
F. None of the Above

98. Enlarging or upgrading sewer, pump station, or sewage treatment plant capacity and/or?

A. Utility’s plan/schedule  
B. MOM Programs Self-Audit  
C. SSOs  
D. Reliability  
E. Preventative operations  
F. None of the Above

99. Construction of wet weather storage and treatment facilities to treat?

A. Utility’s plan/schedule  
B. MOM Programs Self-Audit  
C. SSOs  
D. Excess flows  
E. Capacity and/or reliability  
F. None of the Above

100. Which of the following terms communities should address during sewer system master planning and facilities planning?

A. Utility’s plan/schedule  
B. MOM Programs Self-Audit  
C. SSOs  
D. Both personnel and management  
E. Capacity and/or reliability  
F. None of the Above

**Other Wastewater Treatment Components - Biochemical Oxygen Demand**

101. Biochemical Oxygen Demand (BOD or BOD5) is an indirect measure of Biodegradable organic compounds in water, and is determined by measuring the dissolved oxygen decrease in a controlled water sample over a five-day period.

A. True  
B. False

102. During this five-day period, aerobic (oxygen-consuming) bacteria decompose organic matter in the sample and consume dissolved oxygen in proportion to the amount of organic material that is present.

A. True  
B. False

103. Which of the following terms reflects high concentrations of substances that can be biologically degraded, thereby consuming oxygen?

A. Organic carbon  
B. Human sources  
C. Domestic wastewater  
D. High BOD  
E. Growth of filamentous bacteria  
F. None of the Above
104. The BOD test has merit as a pollution parameter continues to be debated, ___________
has the advantage of a long period of record.
A. BOD  D. Bacteria and other microbes
B. Dissolved oxygen decrease  E. Oxygen-demanding pollutants
C. Sludge bulking  F. None of the Above

*Organic Carbon*

105. Most organic carbon in water occurs as partly degraded plant and animal materials, some
of which are resistant to microbial degradation.
A. True  B. False

106. Dead tissue containing carbon is decomposed as ________________by bacteria and
other microbes.
A. An essential nutrient  D. Detritus
B. Dissolved oxygen decrease  E. Oxygen-demanding pollutants
C. Sludge bulking  F. None of the Above

*Total Organic Carbon*

107. (TOC) bears a direct relationship with biological and chemical oxygen demand; high levels
of TOC can result from human sources, ________________being the main concern.
A. Organic carbon  D. High BOD
B. High oxygen demand  E. Growth of filamentous bacteria
C. Domestic wastewater  F. None of the Above

*pH Section*

108. The Arrhenius theory states than an acid is a substance that produces ___________ when
it is dissolved in water, and a base is one that produces hydroxide ions when dissolved in water.
A. Acid  D. pH measurement(s)
B. Alkalinity  E. Hydronium ions
C. pH  F. None of the Above

109. When an atom loses __________and thus has more protons than electrons, the atom is
a positively-charged ion or cation.
A. A proton  D. An electron
B. Charge  E. A cation
C. Anti-matter  F. None of the Above

110. An oxidant removes electrons from another substance. Similarly, substances that have the
ability to reduce other substances are said to be reductive and are known as reducing agents,
reductants, or reducers. Because of this reaction, we call these?
A. A proton  D. An electron
B. An electron donor  E. A cation
C. Anti-matter  F. None of the Above

111. In chemistry, pH is a measure of the acidity or basicity of an aqueous solution. Solutions
with a pH less than 7 are said to be acidic and solutions with a pH greater than 7 are basic or
alkaline. Pure water has a pH very close to?
A. 5  D. 7.7
B. 6.  E. 7.5
C. 7  F. None of the Above
112. Which of the following terms are determined using a concentration cell with transference, by measuring the potential difference between a hydrogen electrode and a standard electrode such as the silver chloride electrode?
A. Primary pH standard values   D. pH measurement(s)
B. Alkalinity            E. Measurement of pH
C. pH                      F. None of the Above

113. Which of the following terms are important in medicine, biology, chemistry, agriculture, forestry, food science, environmental science, oceanography, civil engineering, chemical engineering, nutrition, water treatment & water purification, and many other applications?
A. Primary pH standard values   D. pH measurement(s)
B. Alkalinity            E. Measurement of pH
C. pH                      F. None of the Above

114. Mathematically, pH is the negative logarithm of the activity of the hydronium ion, more often expressed as the measure of the?
A. Electrons   D. Cation measurement(s)
B. Alkalinity   E. Ions
C. Hydronium ion concentration F. None of the Above

115. Which of the following terms for aqueous solutions can be done with a glass electrode and a pH meter, or using indicators?
A. Primary sampling   D. Determining values
B. Alkalinity            E. Measurement of pH
C. pH                      F. None of the Above

116. The pH scale is logarithmic and therefore pH is?
A. Universal indicator   D. Excess of alkaline earth metal concentrations
B. A dimensionless quantity E. A set of non-linear simultaneous equations
C. Spectrophotometer F. None of the Above

117. Measuring alkalinity is important in determining a stream's ability to neutralize acidic pollution from rainfall or wastewater. It is one of the best measures of the sensitivity of the stream to acid inputs. There can be long-term changes in the __________ of rivers and streams in response to human disturbances.
A. Acid   D. pH measurement(s)
B. Alkalinity            E. Bond formation
C. pH                      F. None of the Above

118. pH is defined as the decimal logarithm of the reciprocal of the________, aH+, in a solution.
A. Hydrogen ion activity   D. Brønsted–Lowry acid–base theory
B. Ion-selective electrode(s) E. Acid-base behavior
C. (Solvated) hydronium ion F. None of the Above

119. Which of the following terms may be used to measure pH, by making use of the fact that their color changes with pH?
A. Indicators   D. Excess of alkaline earth metal concentrations
B. pH            E. A set of non-linear simultaneous equations
C. Spectrophotometer F. None of the Above
120. Alkalinity is the name given to the quantitative capacity of an aqueous solution to neutralize an?
A. Acid  D. pH measurement(s)
B. Base  E. Bond formation
C. pH  F. None of the Above

121. Which of the following terms of the color of a test solution with a standard color chart provides a means to measure pH accurate to the nearest whole number?
A. Universal indicator  D. Visual comparison
B. Colorwheel measurement  E. A test
C. Spectrophotometer  F. None of the Above

122. Which of the following terms is made from absorbent paper that has been impregnated with universal indicator?
A. Universal indicator  D. Excess of alkaline earth metal concentrations
B. Colorimeter of spectrophotometer  E. A set of non-linear simultaneous equations
C. Spectrophotometer  F. None of the Above

123. The calculation of the pH of a solution containing acids and/or bases is an example of a chemical speciation calculation, that is, a mathematical procedure for calculating the concentrations of all chemical species that are present in the solution. The complexity of the procedure depends on the?
A. Universal indicator  D. Excess of alkaline earth metal concentrations
B. pH  E. A set of non-linear simultaneous equations
C. Nature of the solution  F. None of the Above

124. Under normal circumstances, this means that the concentration of hydrogen ions in acidic solution can be taken to be equal to the concentration of the acid. The pH is then equal to minus the logarithm of?
A. The concentration value  D. Excess of alkaline earth metal concentrations
B. The pH  E. A set of non-linear simultaneous equations
C. The Spectrophotometer  F. None of the Above

125. Alkalinity of water is its acid-neutralizing capacity. It is the sum of all the titratable bases. The measured value may vary significantly with the?
A. Acid  D. pH measurement(s)
B. Alkalinity  E. End-point pH
C. pH  F. None of the Above

126. For strong acids and bases, no calculations are necessary except in extreme situations. The pH of a solution containing a weak acid requires the solution of a quadratic equation. The pH of a solution containing a weak base may require the?
A. Solution of a cubic equation  D. Excess of alkaline earth metal concentrations
B. pH  E. A set of non-linear simultaneous equations
C. Spectrophotometer  F. None of the Above

127. Alkalinity is a measure of this missing term and can be interpreted in terms of specific substances only when the chemical composition of the sample is known.
A. Universal indicator  D. Excess of alkaline earth metal concentrations
B. pH  E. A set of non-linear simultaneous equations
C. An aggregate property of water  F. None of the Above
128. More precise measurements are possible if the color is measured spectrophotometrically, using a?
A. Universal indicator D. Excess of alkaline earth metal concentrations
B. Colorimeter of spectrophotometer E. A set of non-linear simultaneous equations
C. Spectrophotometer F. None of the Above

129. Alkalinity is significant in many uses and treatments of natural waters and wastewaters. Because the alkalinity of ______________ it is taken as an indication of the concentration of these constituents.
A. Acid D. pH measurement(s)
B. Alkalinity E. Bond formation
C. pH F. None of the Above

130. For strong acids and bases no calculations are necessary except in extreme situations. The pH of a solution containing a weak acid requires?
A. The concentration value D. Excess of alkaline earth metal concentrations
B. The solution of a quadratic equation E. A set of non-linear simultaneous equations
C. The Spectrophotometer F. None of the Above

131. Alkalinity in excess of this term is significant in determining the suitability of water for irrigation.
A. 8 D. Alkaline earth metal concentrations
B. pH of 7 E. Non-linear simultaneous equations
C. 3 F. None of the Above

132. The calculation of the pH of a solution containing acids and/or bases is an example of a ____________ calculation, that is, a mathematical procedure for calculating the concentrations of all chemical species that are present in the solution
A. Universal indicator D. Visual comparison
B. Colorwheel measurement E. Chemical speciation
C. Spectrophotometer F. None of the Above

133. Since pH is a logarithmic scale, a difference of one pH unit is equivalent to this term difference in hydrogen ion concentration
A. 1 D. 10
B. 2 E. 100
C. 5 F. None of the Above

134. Which of the following terms measurements are used in the interpretation and control of water and wastewater treatment processes?
A. Acid D. Chemical ion
B. Alkalinity E. Hydrogen bond formation
C. pH F. None of the Above

135. Which of the following terms are compounds that, for practical purposes, are completely dissociated in water.
A. Strong acids and bases D. Strong bases and weak acids
B. Strong bases E. Weak acids and weak bases
C. Chemical ions in chains F. None of the Above
136. The pH of a solution containing a ____________ may require the solution of a cubic equation. The general case requires the solution of a set of non-linear simultaneous equations.
A. Strong acids and bases    D. Strong bases and weak acids
B. Strong bases             E. Weak acids and weak bases
C. Weak bases               F. None of the Above

137. Sodium hydroxide, NaOH, is an example of a?
A. Strong acids and bases    D. Strong bases and weak acids
B. Strong base              E. Weak acids and weak bases
C. Weak base                F. None of the Above

Types of Wastewater Samples
General
138. Hand compositing is a series of time proportional grab samples that are collected and composited by hand.
A. True   B. False

139. Generally, there are four types of samples that are collected by the POTW’s Sampling Section: grab, time proportional composites, flow proportional composites, and hand composites.
A. True   B. False

140. Which of the following terms used depends largely on the types of analyses to be run, and the nature of the wastestream being sampled?
A. An analysis    D. Taste test
B. The sampling method    E. Blanks
C. Duplicate samples    F. None of the Above

141. Which of the following sampling terms is an individual sample collected in less than 15 minutes without regard for flow or time of day?
A. Entire batch discharge    D. An individual sample
B. The volume of sample    E. Proportional composite sampling
C. A grab sample    F. None of the Above

142. pH, cyanide, oil and grease, sulfide, and volatile organics must be collected as composite samples.
A. True   B. False

143. Which of the following sampling terms would be taken by means of time proportional composite sampling methods or by hand composite will provide a representative sample of the effluent being discharged?
A. An analysis    D. Samples
B. Split samples    E. Blanks
C. Duplicate samples    F. None of the Above

144. Which of the following sampling terms is to be collected by any of these methods is dependent on the number and types of analyses that must be performed?
A. Entire batch discharge    D. An individual sample
B. The volume of sample    E. Proportional composite sampling
C. Concentration of pollutants    F. None of the Above
Wastewater Grab Samples
145. Grab samples are individual samples collected in less than 3 minutes without regard to flow or time of day.
   A. True   B. False

146. Which of the following sampling terms are normally taken manually, but can be pumped?
   A. Quantify the pollutants   D. Time proportional composite sampling methods
   B. Grab samples               E. Flow proportional composites
   C. Hand composites           F. None of the Above

A grab sample is usually taken when a sample is needed to:
147. Provide information about ______________ of pollutants at a specific time.
   A. Entire batch discharge   D. An individual sample
   B. The volume of sample     E. An instantaneous concentration
   C. Concentration of pollutants F. None of the Above

148. According the text, quantify the ______________ in a non-continuous discharge?
   A. Pollutants  D. Taste test
   B. Split samples E. Blanks
   C. Duplicate samples F. None of the Above

149. According the text, corroborate ______________ if the waste is not highly variable.
   A. Entire batch discharge   D. An individual sample
   B. The volume of sample     E. Proportional composite sampling
   C. Composite samples        F. None of the Above

150. Which of the following sampling terms are not amenable to compositing such as pH, temperature, dissolved oxygen, chlorine, purgeable organics and sulfides, oil and grease, coliform bacteria, and sulfites?
   A. Quantify the pollutants   D. Monitor parameters
   B. Grab samples               E. Flow proportional composites
   C. Hand composites           F. None of the Above

Timed Composites
151. Which of the following sampling terms - are usually taken in instances where the intention is to characterize the wastes over a period of time without regard to flow?
   A. Timed samples         D. Time proportional composite sampling methods
   B. Grab samples           E. Flow proportional composites
   C. Hand composites        F. None of the Above

152. Which of the following sampling terms - consist of a series of equal volume grab samples taken at regular intervals?
   A. Timed composite samples D. Time proportional composite sampling methods
   B. Grab samples           E. Flow proportional composites
   C. Hand composites        F. None of the Above
Flow Proportional Composites
153. Which of the following sampling terms consist of: a series of grab samples whose
volumes are equal in size and proportion to the flow at the time of sampling?
A. The sampling point(s)  D. Routine QA/QC measures
B. Sample preservation  E. Flow proportional composite samples
C. Duplicate samples  F. None of the Above

154. Which of the following sampling terms are taken at varying time intervals, or
continuous samples taken over a period of time based on the flow?
A. Entire batch discharge  D. An individual sample
B. The volume of sample  E. Samples
C. Concentration of pollutants  F. None of the Above

155. Wherever possible, grab sampling is recommended because it most accurately
reflects the nature of the wastestream.
A. True  B. False

156. Which of the following sampling terms - taken at varying time intervals are most often
collected by the sampling inspectors?
A. Entire batch discharge  D. An individual sample
B. The volume of sample  E. Proportional composite sampling
C. Equal volume samples  F. None of the Above

Wastewater Sample Preservation
157. One or more unstable pollutants that require immediate analysis or preservation until
________________________________ can be made.
A. An analysis  D. Taste test
B. Split samples  E. Blanks
C. Duplicate samples  F. None of the Above

158. According the text, sample preservation is needed for___________, for example, which
may be stored for as long as 24 hours prior to transferring them to the laboratory.
A. Nitrified effluent  D. Nitrogen and phosphorus levels
B. Composite samples  E. Activated sludge
C. Total Nitrogen (TN)  F. None of the Above

Quality Assurance/Quality Control Policy Example
159. According the text, Quality Assurance/Quality Control (QA/QC) measures taken by the
sampling crew include equipment blanks, trip blanks, split samples and duplicate samples.
A. True  B. False

160. Equipment blanks and __________ are routine QA/QC measures.
A. The sampling point(s)  D. Routine QA/QC measures
B. Sample preservation  E. Trip blanks
C. Duplicate samples  F. None of the Above

161. Which of the following sampling terms - are taken for Local Limits (pretreatment) sampling and
when requested by an industry or laboratory?
A. An analysis  D. Taste test
B. Split samples  E. Blanks
C. Duplicate samples  F. None of the Above
162. Which of the following sampling terms should be run when requested by a Supervisor or Project Leader?
A. An analysis  D. Taste test
B. Split samples  E. Blanks
C. Duplicate samples  F. None of the Above

163. The laboratory needs to prepare ____________ used by the sampling crews.
A. The sampling point(s)  D. Routine QA/QC measures
B. Sample preservation  E. All trip blanks/travel blanks
C. Duplicate samples  F. None of the Above

164. Any contamination detected in the ____________ would result from field exposure which could in turn affect collected samples.
A. An analysis  D. Taste test
B. Split samples  E. Blanks
C. Duplicate samples  F. None of the Above

**Chain-of-Custody**

165. If sampling is performed for the Pretreatment program, any sampling data may be used as evidence in court proceedings in this case ________________ becomes critical.
A. Sampling crew  D. Documentation
B. Duplicate samples  E. Noncompliant industrial user
C. Pre-preserved bottles  F. None of the Above

166. Laboratory personnel sign and date the chain of custody form, and return it to the sampling crew who makes two copies of the form.
A. True  B. False

**Proper Sample Handling**

167. The proper handling of ________________ also includes wearing gloves.
A. Other parameters  D. Some samples
B. Pre-preserved bottles  E. Water quality samples
C. Preservatives  F. None of the Above

168. When the missing term are received from the laboratory, check to see that none have leaked.
A. Other parameters  D. Some samples
B. Pre-preserved bottles  E. Containers and preservatives
C. Preservatives  F. None of the Above

169. Which of the following wastewater sampling terms – should be labeled with type of preservative used, type of analysis to be done and be accompanied by a Safety Data Sheet (SDS).
A. Sampling crew  D. Sampling bottles
B. Duplicate samples  E. Noncompliant industrial user
C. Pre-preserved bottles  F. None of the Above

170. Make sure you can tell if containers are pre-preserved, because you do not to overfill them when collecting samples in the field.
A. True  B. False

171. Check with the laboratory about ________________ when using pre-preserved bottles.
A. Other parameters  D. Some samples
B. Quality control procedures  E. Organics
C. Preservatives  F. None of the Above
172. If necessary, obtain extra coolers and never store coolers and containers near solvents, fuels or other sources of contamination or combustion. In warm weather, keep coolers and samples in the shade.
A. True  B. False

**Code of Federal Regulations**

173. Which of the following terms means all municipal separate storm sewers that are either: Located in an incorporated place with a population of 250,000 or more as determined by the 1990 Decennial Census by the Bureau of the Census?
A. Medium municipal separate storm sewer system  
B. Major outfall  
C. Major municipal separate storm sewer outfall  
D. Large municipal separate storm sewer system  
E. Overburden  
F. None of the above

174. Which of the following terms means a municipal separate storm sewer outfall that discharges from a single pipe with an inside diameter of 36 inches or more or its equivalent; or for municipal separate storm sewers that receive storm water from lands zoned for industrial activity?
A. Medium municipal separate storm sewer system  
B. Major outfall  
C. Major municipal separate storm sewer outfall  
D. Large municipal separate storm sewer system  
E. None of the above

175. Which of the following terms means a major municipal separate storm sewer outfall?
A. Medium municipal separate storm sewer system  
B. Major outfall  
C. Major municipal separate storm sewer outfall  
D. Large municipal separate storm sewer system  
E. None of the above

176. Which of the following terms means all municipal separate storm sewers that are either: (i) Located in an incorporated place with a population of 100,000 or more but less than 250,000, as determined by the 1990 Decennial Census by the Bureau of the Census?
A. Medium municipal separate storm sewer system  
B. Major outfall  
C. Major municipal separate storm sewer outfall  
D. Large municipal separate storm sewer system  
E. None of the above

177. Which of the following terms means any material of any nature, consolidated or unconsolidated, that overlies a mineral deposit?
A. Storm water or Stormwater discharge associated with industrial activity  
B. Storm water  
C. Significant materials  
D. Runoff coefficient  
E. Overburden  
F. None of the above
178. Which of the following terms means the fraction of total rainfall that will appear at a conveyance as runoff?
A. Storm water or Stormwater discharge associated with industrial activity
B. Storm water
C. Significant materials
D. Runoff coefficient
E. Overburden
F. None of the above

179. Which of the following terms means raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances?
A. Storm water or Stormwater discharge associated with industrial activity
B. Storm water
C. Significant materials
D. Runoff coefficient
E. Overburden
F. None of the above

180. Which of the following terms means storm water runoff, snowmelt runoff, and surface runoff and drainage?
A. Storm water or Stormwater discharge associated with industrial activity
B. Storm water
C. Significant materials
D. Runoff coefficient
E. Overburden
F. None of the above

181. Which of the following terms means the discharge from any conveyance that is used for collecting and conveying storm water and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant?
A. Storm water or Stormwater discharge associated with industrial activity
B. Storm water
C. Significant materials
D. Runoff coefficient
E. Overburden
F. None of the above

182. Prior to October 1, 1994, discharges composed entirely of storm water shall not be required to obtain a NPDES permit except A discharge associated with industrial activity (see Sec. 122.26(a)(4))
A. True B. False

183. After October 1, 1994, discharges composed entirely of storm water shall not be required to obtain a NPDES permit except Discharge from a large municipal separate storm sewer system.
A. True B. False

184. Prior to October 1, 1991, discharges composed entirely of water shall not be required to obtain a NPDES permit except: A discharge from a medium municipal separate storm sewer system.
A. True B. False

185. When the Director designates discharges from municipal separate storm sewers on a system-wide or jurisdiction-wide basis. The Director may consider the following factor: The location of the discharge with respect to waters of the United States as defined at 40 CFR 122.2.
A. True B. False
186. When the Director designates discharges from municipal separate storm sewers on a system-wide or jurisdiction-wide basis. The Director may consider the following factor: The quantity and nature of the pollutants discharged to waters of the United States; and Other relevant factors.
A. True   B. False

187. The Director may not require a permit for discharges of storm water runoff from:
A. Mining operations
B. Oil and gas exploration
C. Production, processing or treatment operations or transmission facilities.
D. All of the above
E. None of the above

188. The operator of a discharge from a municipal separate storm sewer which is part of a large or medium municipal separate storm sewer system must either: Participate in a permit application (to be a permittee or a co-permittee) with one or more other operators of discharges from the large or medium municipal storm sewer system which covers all, or a portion of all, discharges from the municipal separate storm sewer system;
A. True   B. False

Confined Space Entry Program
Purpose
189. The Confined Space Entry Program is provided to protect authorized employees that will enter confined spaces and may be exposed to hazardous atmosphere, engulfment in materials, conditions which may trap or asphyxiate due to converging or sloping walls, or contains any other safety or health hazards.
A. True   B. False

190. According to the text, you are required to recognize this term associated with confined spaces.
A. An internal configuration   D. Dangers and hazards
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Permit-Required Confined Space   F. None of the Above

Confined space:
191. Is large enough or so configured that an employee can?
A. Engulfing an entrant   D. Recognized serious safety or health hazard
B. Bodily enter and perform work   E. Continuous employee occupancy
C. An internal configuration   F. None of the Above

192. Is not designed for?
A. Engulfing an entrant   D. Recognized serious safety or health hazard
B. Hazardous atmospheres   E. Continuous employee occupancy
C. An internal configuration   F. None of the Above

193. Permit required confined space (permit space), is a confined space that has one or more of the following characteristics: Contains or has a potential to contain a?
A. An internal configuration   D. Entry or exit
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Permit-Required Confined Space   F. None of the Above

194. Has limited or restricted means for entry or exit (i.e. tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have?
A. An internal configuration   D. Entry or exit
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Limited means of entry   F. None of the Above
195. Contains a material that has the?
A. Engulfing an entrant    D. Recognized serious safety or health hazard
B. Hazardous atmospheres   E. Continuous employee occupancy
C. Potential for engulfing an entrant   F. None of the Above

196. Has an internal configuration such that ________________ could be trapped or asphyxiated by inwardly covering walls or by a floor that slopes downward and tapers to a smaller cross-section.
A. An internal configuration    D. An entrant
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Permit-Required Confined Space F. None of the Above

197. Contains any other recognized serious safety or?
A. Engulfing an entrant    D. Health hazard
B. Hazardous atmospheres   E. Continuous employee occupancy
C. An internal configuration    F. None of the Above

198. Which of the following terms will be marked "Confined Space - Entry Permit Required"?
A. An internal configuration    D. Entry or exit
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Permit-Required Confined Space F. None of the Above

Confined Space Hazards
199. Fatalities and injuries constantly occur among construction workers who, during the course of their jobs, are required to enter?
A. An internal configuration    D. Entry or exit
B. Hazardous atmosphere   E. Confined spaces
C. Ventilation ducts    F. None of the Above

200. Throughout the construction jobsite, contractors and workers encounter both inherent and ________________ within confined workspaces.
A. An internal configuration    D. Induced hazards
B. Hazardous atmosphere   E. Atmospheric factors and physical agents
C. Permit-Required Confined Space F. None of the Above