

4.0 INDEX

The index of key terms was developed based on specific public comments regarding a particular resource or topic area or for terms that could not be found through use of the table of contents. Resource areas that are referenced in the table of contents or terms (i.e., NBAF) that are found throughout the document are not contained in this index. The reason for this approach, for commonly used terms, is that the reader can most effectively be directed to the particular resource section of interest through use of the table of contents.

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Maher Itani Tetra Tech, Inc.	Quality Assistance Manager	B.S., Civil Engineering, 1985, George Washington University M.E.A., Engineering Administration, 1987, George Washington University Years of experience: 20
Randy Janke Tetra Tech, Inc.	Technical Lead – Health and Safety/Accidents Evaluation	B.S., Nuclear Engineering, 1984, University of Cincinnati M.S., Nuclear Engineering, 1989, University of Cincinnati Years of experience: 24
Karl Johnson	Technical Review – Biosafety and Health and Safety	A.B., Botany, 1951, Oberlin College M.S., Microbiology, 1955, University of Rochester M.D., 1956, University of Rochester Years of experience: 49
Alan Karnovitz Louis Berger Group, Inc.	Technical Lead – Socioeconomics/Environmental Justice	B.S., Biology of Natural Resources, 1979, University of California M.P.P., Public Policy, Wharton School, 1981, University of Pennsylvania Years of experience: 26
Duncan Kisia Louis Berger Group, Inc.	Technical Writer – Socioeconomics	B.S., Civil Engineering, 2002, Drexel University M.P.P., International Economics and Development Policy, 2007, University of Chicago Years of experience: 3
Erin King Tetra Tech, Inc.	Technical Writer – Archeological/Cultural Resources	B.A., Cultural Anthropology, 2001, University of California M.A., Public Archaeology, 2005, California State University Years of experience: 6
Elizabeth Lack Tetra Tech, Inc.	Technical Review	B.S., Forestry Biology, 1988, Colorado State University Years of experience: 12
Janelle Lavelle Tetra Tech, Inc.	GIS Manager	B.A., Geography and Anthropology, 2000, University of Southern Maine Years of experience: 7
Jenny Lovell Tetra Tech, Inc.	Technical Writer – Cultural Resources/Native American Tribe Consultations	B.A., Environmental Policy, Communications, 2003, Tulane University Years of experience: 5
Heath McLaughlin	Technical Writer – Health and Safety/Accidents Evaluation	B.S., Nuclear Engineering, 1997, Purdue University M.S., Nuclear Engineering, 1998, University of Wisconsin Years of experience: 10
Geoff Pappas Dial Cordy and Associates Inc.	Technical Writer – Land Use and Visual Resources	B.A., Classic/Latin, 1989, University of Florida M.A., College of Architecture, 1991, University of Florida M.S., Public Administration and Political Science, 2000, University of North Florida Years of experience: 19

Name	Project Role	Background
Charles Pergler Tetra Tech, Inc.	Deputy EIS Project Manager, Technical Author	A.A., Biology, 1979, Palomar College B.S., Range and Wildlands Science with Honors, 1982, University of California M.S., Range Management, 1983, University of California Years of experience: 25
Joe Rafferty Tetra Tech, Inc.	Infrastructure Analysis, Traffic and, Transportation	B.A., Biology and Environmental Studies, Minor – Geology, 1975, Trinity University Years of experience: 32
Wiley Schell Tetra Tech, Inc.	Technical Writer – Biosafety/Health and Safety	B.A., Biology, 1977, East Carolina University M.S., Mycology, 1979, University of North Carolina at Chapel Hill Years of experience: 29
Mark Smith Tetra Tech, Inc.	Tetra Tech Principal-in-Charge	B.S., Civil Engineering, 1987, Carnegie Mellon University Years of experience: 18
Lee Swain Dial Cordy and Associates Inc.	EIS Project Manager, Technical Author	B.S., Botany, 1983, University of South Florida M.S., Botany, 1987, University of South Florida Graduate Studies, Biochemistry, 1987-1992, Florida International University Years of experience: 16
Annette Taylor Dial Cordy and Associates Inc.	Technical Review	B.S., Marine Biology, 1980, University of North Carolina at Wilmington Post-Baccalaureate Studies, Mathematics, 1981-1982, University of North Carolina at Wilmington M.S., Coastal Ecology, 1986, University of North Carolina at Wilmington Years of experience: 22
Suzanne Villacorta Tetra Tech, Inc.	Technical Author – Regulatory	B.A., Anthropology/Archaeology, 1987, University of New York at Buffalo J.D., College of Law, 1993, Syracuse University Years of experience: 14

Name	Project Role	Background
Thomas E. Walton, DVM, Ph.D.	Technical Review – Biosafety and Biocontainment/Health and Safety	D.V.M., 1964, Purdue University Ph.D., Virology/minor biochemistry and pathology, 1968, Cornell University DSc (hon.caus.), 1999, Purdue University Dipl. ACVM, 1970 SES Certificate, OPM, 1995 FSTVM, 2007 Years of experience: 44 (in veterinary medicine and biocontainment research) and 36 in USDA, ARS and USDA, APHIS, Veterinary Services (veterinary research and regulatory veterinary medicine)
Judith Weintraub Tetra Tech, Inc.	Technical Lead – Existing Hazardous, Toxic, or Radiological Waste Contamination	B.A., History, 1972, SUNY at Stony Brook M.A., History, 1974, SUNY at Stony Brook Years of experience: 27

Table 6-2 — Document Reviewers

Name	Project Role	Background
Tammy Beckham USDA APHIS	Director, Foreign Animal Disease Diagnostic Laboratory, USDA, APHIS	D.V.M., 1998, Auburn University Ph.D., 2001, Auburn University, in conjunction with U.S. Army Medical Research Institute for Infectious Diseases (USAMRIID) Years of experience: 11
Bruce Berry Sandia National Labs	Threat and Risk Assessment Review	M.S., Electrical Engineering, University of New Mexico
Julie Brewer DHS ONL, PM Office	NBAF Project Management Office	B.S., Engineering, Vanderbilt University M.S., Engineering Technical Management, Oklahoma State University
Sydel Cavanaugh SAIC Public Outreach	Public Outreach Coordinator	B.A., Interdisciplinary Studies – Personnel and Sociology, 1985, University of Maryland Years of experience: 22
L. Eugene Cole II, R.A. DHS, S&T	Contracting Officers Technical Representative (COTR)	Bachelor of Architecture, 1984, University of Kentucky, College of Architecture Year of experience: 23
Steve Cowan DHS ONL, PM Office	NBAF Project Management Office	B.A., International Relations, 1997, University of Nebraska M.A., International Relations, 2000, University of Westminster Years of experience: 7
Robert E. Driggers DHS, FLETC	Contracting Officer (CO)	Bachelor of Business Administration, 1984, National University, San Diego, CA M.B.A., 1988, Georgia College, Milledgeville, GA Year of experience: 20
Melissa Finley Sandia National Labs	Threat and Risk Assessment Review	D.V.M., Colorado State University Ph.D., Pharmacology, Kansas State University Dip ACVIM, 1997
Kevin Folk SAIC Public Outreach	NEPA Compliance, Document Reviewer	B.A., Geoenvironmental Studies (Geology), 1989, Shippensburg University of Pennsylvania M.S., Environmental Biology, 1997, Hood College Years of experience: 18
Cyril Gay USDA ARS	National Program Leader, Animal Health and Safety, USDA, ARS	B.S., Chemistry, Auburn University D.V.M., Auburn University Ph.D., Microbiology, George Washington University Years of experience: 20
Jennifer Gaudio Sandia National Labs	Threat and Risk Assessment Review	Ph.D., Cornell University
Tam Garland DHS S&T	Director of JADO, Branch Chief Ag Security	D.V.M., 1987, Texas A&M University Ph.D., Toxicology, 1992, Texas A&M University Years of experience: 21

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Name	Project Role	Background
Lee Halterman Marstel-Day, LLC	Technical Reviewer	B.A., Political Science, 1974, University of California at Berkley Jurist Doctor, 1979, Boalt Hall School of Law, University of California at Berkley Years of experience: 38
James V. Johnson DHS ONL	Director, Office of National Laboratories DHS, S&T	B.S., Nuclear Engineering, 1984, University of Arizona M.S., Nuclear Engineering, 1985, Georgia Tech University M.B.A., 1991, University of North Carolina Years of experience: 22
Joanne Jones-Meehan DHS ONL	Biosurety Officer, DHS S&T	M.S., Microbiology, 1978, Illinois State University Ph.D., Microbiology, 1985, Iowa State University Years of experience: 20
Elizabeth Lautner USDA APHIS	Director of the National Veterinary Services Laboratories in Ames, Iowa, USDA, APHIS	M.S., Viral Transmissions, University of Minnesota D.V.M., Michigan State University Years of experience: 20
Jeanette Lostracco, AICP Marstel-Day, LLC	Technical Reviewer	B.A., Geography, 1975, University of South Florida M.B.A., 1981, University of South Florida Years of experience: 29
Mike Moreland NBAF Design Partnership	NDP NBAF Design Team Project Manager	B.S., Architectural Engineering Technology, 1992, Southern Polytechnic State University Years of experience: 16
Patricia Papa SAIC Public Outreach	Senior Environmental Analyst, Public Outreach Manager	B.A., Public Communications and Psychology, 1966, Syracuse University Years of experience: 42
Sharon Pietzyk SAIC Public Outreach	Public Relations Manager	B.S., Biology, 1981, James Madison University M.S., Systems Management, 1988, University of Southern California Years of experience: 26
Linda Robinson SAIC Public Outreach	Public Relations Specialist	B.S., Earth Science, 1971, Texas Christian University M.B.A., 1987, Loyola College Years of experience: 30
Luis Rodrigues USDA ARS	Plum Island Animal Disease Center Research Leader, USDA, ARS	D.V.M., 1979, The National University of Costa Rica M.S., 1982, University of Wisconsin-Madison Ph.D., Veterinary Science, 1985, University of Wisconsin-Madison Years of experience: 22
Doug Smith DHS ONL, PM Office	NBAF Project Manager	B.S., Architecture, 1992, University of Virginia M.S., Urban Planning, 1994, Columbia University Years of experience: 15

Name	Project Role	Background
Mary Clare Stoddard Sandia National Labs	Program Office Coordinator	M.A., Mechanical Engineering, Purdue Years of experience: 27
Dan Watch NBAF Design Partnership	NDP Program Manager	B.S., Architecture, 1983, University of Tennessee Master of City Planning, 1983, University of Pennsylvania Master of Architecture, 1983, University of Pennsylvania Years of experience: 23
Todd West Sandia National Labs	Threat and Risk Assessment Review	B.S., Physics, California Institute of Technology Ph.D., Particle Physics, University of Texas at Austin
Pat Wherley SAIC Public Outreach	Program Manager	B.A., Geography/Environmental Studies, 1980, George Washington University Years of experience: 30

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Federal Agencies

Advisory Council on Historic Preservation	U.S. Department of Agriculture
Bureau of Land Management	U.S. Department of Health and Human Services
Federal Bureau of Investigation	U.S. Department of the Interior
National Science Foundation	U.S. Environmental Protection Agency
U.S. Army	U.S. Fish and Wildlife Service

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Marie Thomas, Senior Policy Advisor

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Idaho Department of Agriculture, Gregory Ledbetter, D.V.M.

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Clemson Livestock Laboratory, John A. Caver, D.V.M.
South Dakota Animal Industry Board, Sam D. Holland, D.V.M.
Tennessee Department of Agriculture, Ronald B. Wilson, D.V.M.
Utah Department of Agriculture, Division of Animal Industry, Michael R. Marshall, D.V.M.
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Michael Spera, Office of Emergency
Management, Director, Emergency
Services, Middlesex County, Old
Saybrook

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Michael Pace, First Selectman, Old Saybrook

Athens-Clarke County Commissioners

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Director, Oconee County
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City Official

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Mayor

Tom Phillips, Manhattan

City Official

Ron Fehr, City Manager, Manhattan
Dale Houdeshell, Director of Public Works,
Manhattan

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Michael Kearns
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Gary Rhodes, Flowood
Mary Hawkins Butler, Madison
Gene McGee, Ridgeland

City Official

Debra Ross, City Clerk, Flora

County Officials

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Tim Johnson, President, Board of Supervisors, Madison County

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Albert J. Krupski, Jr., Councilman, Southold Town Board
Jack McGreevy, Town Conservation Advisory Council, Southold
Vincent M. Orlando, Councilman, Southold Town Board
William P. Ruland, Councilman, Southold Town Board
Robert VanBourgondien, Chairperson, Southold Agricultural Advisory Committee
Thomas H. Wickham, Councilman, Southold Town Board

Village Officials

David Nyce, Mayor, Village of Greenport

County Official

Humayun J. Chaudhry, Department of Health Services Commissioner, Suffolk County
Carrie Meek Gallagher, Commissioner of Environment and Energy, Suffolk County
Steve Levy, County Executive, Suffolk County
Edward P. Romaine, Legislator District 1, Suffolk County

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Tom McGee, Town Manager, Butner
J. Russell Allen, City Manager, Raleigh

Granville County Commissioners

Ronald R. Alligood
W.E. "Pete" Averette
Tony W. Cozart
R. David Currin, Jr.
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Phil Hardberger, San Antonio

City Officials

Sheryl Sculley, City Manager

San Antonio City Council

Medina County Commissioner

Beverly Keller

Bexar County Commissioners Court

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Native American Representatives

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Nealie McCormick, Chairman, Georgia Council on American Indian Concerns
Marian McCormick, Chief, Lower Muskogee Creek Tribe
Walker Dan Davis, Chief, Georgia Tribe of Eastern Cherokee
Ralph Crews, Cherokee of Georgia Tribal Council

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Beasley Denson, Chief, Mississippi Band of Choctaw Indians
Ken Carleton, Tribal Historic Preservation Officer, Mississippi Band of Choctaw Indians

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Margaret Smith, Attorney, Shinnecock Nation

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Earl J. Barbry, Jr., Tribal Historic Preservation Officer, Tunica-Biloxi Indians of Louisiana

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Gingy Nail, Tribal Historic Preservation Officer, Chickasaw Nation
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Sherry White, Tribal Historic Preservation Officer, Stockbridge-Munsee Community Band of Mohicans

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Old Saybrook, CT 06475
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8.0 GLOSSARY

African Swine Fever—a highly contagious disease transmitted by the soft tick, *Ornithodoros sonrai*, that infects pigs in Africa.

Air Quality Control Regions (AQCR)—the Environmental Protection Agency (EPA) Administrator has designated AQCRs in the United States. Important factors in setting the boundaries of an air quality control region include climate and meteorology, topography, vegetation, land use patterns, population characteristics, and growth projections.

Anadromous—anadromous fishes are those that spend all or part of their adult life in salt water and return to freshwater streams and rivers to spawn.

Analgesics—a pain killer such as acetaminophen or aspirin.

Animal Biosafety Level (ABSL)—ABSL represent the application of biosafety levels to research involving animals and organisms requiring a particular level of biosafety level containment. There are guidelines in place to ensure safe work sites through a combination of engineering controls, management policies, work practices, and procedures. Increasing levels of personnel and environmental protection are provided for by the different biosafety levels. The higher the level, the more stringent the level of protection. ABSL-1 is suitable for work on animals involving well-characterized agents that are not known to cause disease in healthy adult humans and that are of minimal potential hazard to laboratory personnel and the environment. ABSL-2 builds upon the practices, procedures, containment equipment, and facility requirements of ABSL-1. ABSL-3, building upon the ABSL-2 requirements, is suitable for work with biological agents that present the potential of aerosol transmission and that cause serious or potentially lethal disease. ABSL-4 builds upon the standard practices, procedures, containment equipment, and facility requirements of ABSL-3. ABSL-4 involves practices suitable for addressing dangerous or exotic agents that pose high risk of life-threatening disease, aerosol transmission, or related agents with unknown risk of transmission.

Antisepsis—the reduction or prevention of infection by the elimination or reduction of the growth of microorganisms that cause disease or decay.

Antiviral Therapies—a technique that uses antiviral medication to fight viral infections. However, rather than destroying the virus, this technique aims at preventing the virus from replicating so that it cannot continue to reproduce.

Aseptic—free of pathogenic microorganisms; sterile.

Attainment Area—geographic area that meets the primary National Ambient Air Quality Standards (NAAQS) established by the EPA to protect health and the environment. An area may meet the established NAAQS for one criteria pollutant but have unacceptable levels for another. Thus, an area could be in attainment for one criteria pollutant and in non-attainment for another.

Autoclave—an apparatus that uses steam under pressure to sterilize materials. Typically, steam is heated between 121 Celsius (°C) to 134°C and takes 3 to 15 min to achieve sterility.

Benthic—the benthic zone is the ecological region at the lowest level of a body of water such as an ocean or a lake, including the sediment surface and some sub-surface layers.

Best Management Practice (BMP)—are actions people can take to reduce their impact on the environment. BMPs have been described for agriculture, forest management, and construction.

Bioagent—organisms or the product of organisms that present a health risk to humans. These can be bacterial, fungal, parasitic, rickettsial, or viral agents.

Biocontainment— the containment of extremely pathogenic organisms (as viruses) usually by isolation in secure facilities to prevent their accidental release, especially during scientific research.

Biodefense— Procedures involved in taking defensive measures against attacks using biological agents.

Biological Safety Cabinets (BSCs)—primary containment devices in laboratories working with infectious agents. There are three general types available (Class I, II, and III). Properly maintained Class I and II BSCs, when used in conjunction with good microbiological techniques, provide an effective containment system for safe manipulation of moderate and high-risk microorganisms. Class II BSCs also protect the research material itself through high-efficiency particulate air filtration of the air flow down across the work surface. Class III BSCs offer the maximum protection to laboratory personnel because all infectious agents and hazardous materials are contained in a totally enclosed cabinet. Class III BSCs are designed for work with microbiological agents assigned to BSL-4 and provide maximum protection to the environment and the worker.

Biosafety Level (BSL)—the Centers for Disease Control and Prevention and the National Institutes of Health have defined four levels to designate and regulate laboratory work with biological materials, such as microorganisms. The higher the level, the more stringent the level of protection. The range is BSL-1, in which the microorganisms are not known to cause disease in healthy adult human beings, to BSL-4, in which the microorganisms pose a risk of life-threatening disease and for which there is no known vaccine or therapy. BSL-3Ag refers to research involving large agricultural animals. BSL-3E refers to enhancements made to strengthen the physical containment features of the laboratory or facility; however, the improvements do not meet the criteria of the next BSL. There are guidelines in place to ensure safe work sites through a combination of engineering controls, management policies, work practices, and procedures. Increasing levels of personnel and environmental protection are provided for by the different BSLs used in microbiological/biomedical laboratories.

Biosafety Level 1—facilities appropriate for handling standard microbiological practices. Infectious agents worked with in BSL-1 facilities are not known to consistently cause disease in healthy adults.

Biosafety Level 2—facilities appropriate for handling indigenous agents of moderate risk to personnel and the environment. Pathogens worked with in BSL-2 facilities are transmitted through ingestion or introduction via punctures or mucous membrane exposure.

Biosafety Level 3—facilities appropriate for handling pathogens of indigenous or exotic origin with a known potential for aerosol transmission. Agents worked with in BSL-3 facilities may cause serious and potentially lethal infections. More emphasis is placed on primary and secondary barriers to protect personnel and the community.

Biosafety Level 3 Enhanced (BSL-3E)—refers to the protective enhancements commensurate with the risk assessment of the pathogens and requirements for BSL-3.

Biosafety Level 3 Agriculture (BSL-3-Ag)—includes the containment features of a BSL-3 facility and is specifically designed to protect the environment by also including almost all of the features used for BSL-4 facilities as enhancements. This level refers to research involving large agricultural animals and foreign and emerging pathogens that may cause serious consequences in livestock but are not harmful to humans because protective measures are available. All BSL-3Ag containment spaces must be designed, constructed, and certified by the United States Department of Agriculture (USDA) as primary containment barriers.

Biosafety Level 4—facilities appropriate for handling exotic pathogens that pose a high risk of life-threatening disease in animals and humans through the aerosol route and for which there is no known vaccine or therapy. BSL-4 facilities have complex, specialized ventilation requirements and waste management systems to prevent release of viable agents to the environment.

Bovine Spongiform Encephalopathy (BSE)—more commonly known as mad cow disease, BSE is a progressive neurological disorder of cattle that results from infection by an unusual transmissible agent called a prion.

Carbon Monoxide (CO)—carbon monoxide, with the chemical formula CO, is a colorless, odorless, and tasteless gas. It consists of one carbon atom covalently bonded to one oxygen atom. Carbon monoxide is produced from the partial combustion of carbon-containing compounds, notably in internal combustion engines.

Chain of Custody (COC)—documentation that records the movement of samples from the selection, to the laboratory receipt, to the final disposal; documentation shows traceability of movement of each sample through a laboratory process from collection to disposal.

Chemical Sterilization—a process by which chemicals are applied to destroy all living microorganisms, rendering the material non-infectious or sterile.

Classical Swine Fever—a highly contagious viral disease of swine that occurs worldwide in acute, sub-acute, chronic, and a persistent forms. Symptoms vary from high fever, severe depression, multiple superficial and internal hemorrhages, anorexia, and death. Recovery is occasionally seen in mature animals.

Clean Air Act (CAA)—is the primary federal law in the United States governing air pollution. Like other laws enacted by Congress, it was incorporated into the United States (U.S.) Code. The House of Representatives maintains a current version of the U.S. Code, which includes amendments of the CAA enacted since 1990.

Clean Air Act Conformity—the CAA requires that federal actions conform to a State's Implementation Plan. Specifically, the act requires the action/activity will not cause or contribute to any new violation of any standard in any area; increase the frequency or severity of any existing violation of any standard in any area; or delay timely attainment of any standard or any required interim emission reductions or any other milestones in any area. To implement this requirement, the CAA directed the EPA to issue rules that governed how conformity determinations would be conducted for two categories of actions/activities: 1) those dealing with transportation plans, programs, and projects and 2) all other actions, e.g., projects requiring federal permits.

Clean Water Act (CWA)—is the primary federal law in the United States governing water pollution. The CWA established the symbolic goals of eliminating releases to water of high amounts of toxic substances, eliminating additional water pollution by 1985, and ensuring that surface waters would meet standards necessary for human sports and recreation by 1983. The principal body of law currently in effect is based on the Federal Water Pollution Control Amendments of 1972, which significantly expanded and strengthened earlier legislation.

Code of Federal Regulations (CFR)—is the codification of the general and permanent rules published in the *Federal Register* by the executive departments and agencies of the federal government. It is divided into 50 titles that represent broad areas subject to federal regulation. Each volume of the CFR is updated once each calendar year and is issued on a quarterly basis.

Construction Staging Area—a staging area is a designated area where vehicles, supplies, and construction equipment are positioned for access and use to a construction site.

Contagious Bovine Pleuropneumonia—a highly infectious acute, sub-acute, or chronic disease, primary to cattle, that affects the lungs and occasionally the joints.

Critical Habitat—as habitat loss is the primary threat to most imperiled species, the original *Endangered Species Act* (ESA) of 1973 allowed the U.S. Fish and Wildlife Service (FWS) and the National Oceanic and Atmospheric Administration (NOAA) Fisheries to designate specific areas as protected "critical habitat" zones. In 1978, Congress amended the ESA to require designation for all threatened and endangered species except those that might be harmed by the publication of such maps. Congress indicated that the exception should rarely be invoked. Critical habitats are required to contain "all areas essential to the conservation" of the target species. Such lands may be private or public. The FWS and NOAA Fisheries may exclude essential areas if they determine that economic or other costs exceed the benefit.

Cumulative Impacts—"Cumulative impact" is the impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Effluent—the out-flowing of water from a natural or man-made body of water. The out-flowing can be, but is not limited to, sewage, pollution, or other liquid waste flowing from a sewage treatment facility or other body.

Egress—a means or place of going out; an exit.

Environmental Impact Statement—a document required of federal agencies by the *National Environmental Policy Act* for major federal actions that may significantly affect the quality of the environment. A tool for decision making, it describes, analyzes, and compares the potential environmental impacts of the alternatives to accomplish the purpose and need to which the agency is responding.

Ephemeral Streams—streams that regularly exist for short periods of time, usually during a rainy period, and may have defined channels even when they are dry.

Epidemiology—the study of the incidence, prevalence, detection of source, and cause of infectious diseases in large populations.

Executive Order (EO)—is a directive issued by the President. U.S. Presidents have issued EOs to help direct the operation of executive officers. Some orders do have the force of law when made in pursuance of certain Acts of Congress, when those acts give the President discretionary powers.

Farmland Protection Policy Act (FPPA)—Congress passed the *Agriculture and Food Act* of 1981 containing the FPPA—Subtitle I of Title XV, Section 1539-1549. The final rules and regulations were published in the *Federal Register* on June 17, 1994. The FPPA is intended to minimize the impact that federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that—to the extent possible—federal programs are administered to be compatible with state and local units of government and private programs and policies to protect farmland. Federal agencies are required to develop and review their policies and procedures to implement the FPPA every 2 years.

Fledge—the stage in a young bird's life when the feathers and wing muscles are sufficiently developed for flight. It also describes the act of raising chicks to a fully grown state by the chick's parents.

Foot and Mouth Disease (FMD)—a severe, highly communicable viral disease that effects cloven-hoofed animals, such as cattle, swine, sheep, and goats, and occasionally found in wild ruminants, such as deer and bison. FMD symptoms include fever, malaise, vesicular lesions, and possible death in young animals. Humans are accidental hosts of the disease but are very rarely infected with it.

Gamma Irradiation—the process of using radiation waves of high frequency and high energy and also the shortest wavelength for sterilization of products.

Hazardous Air Pollutants (HAPs)—identified hazardous air pollutants (including volatile organic chemicals used as pesticides and herbicides, inorganic chemicals, metals, and radionuclides) specified in the *Clean Air Act* Amendments of 1990.

Foreign Animal Disease (FAD)—a disease that is not present in the United States and that is capable of rapidly spreading and causing high numbers of deaths and/or devastating economic consequences.

Hydric Soils—are those soils formed under conditions of saturation, flooding, or ponding, which are sufficiently wet in the upper part to develop anaerobic conditions (not dependent on oxygen) during the growing season.

Incineration—the process in which a substance is reduced to ashes by burning.

Ingress—a means or place of entering; entryway.

Intermittent Stream—an intermittent stream is one that only flows for part of the year and is marked on topographic maps with a line of blue dashes and dots.

Lead (Pb)—see Pb definition.

Lyophilization—a laboratory process more commonly known as freeze-drying, where biological material is frozen to preserve the substance or suspend a reaction whereby the process itself preserves the structure of the biological material.

National Ambient Air Quality Standards (NAAQS)—are uniform air quality goals established by the EPA. The EPA designated primary NAAQS to protect public health and secondary NAAQS to protect public welfare and the environment.

National Environmental Policy Act (NEPA)—requires the preparation of an EIS for major federal actions that may significantly affect the quality of the environment. In NEPA, the term “environment” encompasses the natural and physical environment (i.e., air, water, geography, and geology), as well as the relationship of people with that environment (i.e., health and safety, socioeconomic conditions, cultural resources, noise, and aesthetics).

Necropsy—examination of a dead animal to determine cause of death.

Nitrogen Oxides (NO_x)—is a generic term for mono-nitrogen oxides (NO and NO₂). These oxides are produced during combustion, especially combustion at high temperatures. At ambient temperatures, the oxygen and nitrogen gases in air will not react with each other. In areas of high motor vehicle traffic, such as in large cities, the amount of nitrogen oxides emitted into the atmosphere can be quite significant.

Non-attainment Area—geographic area that does not meet the primary NAAQS limits established by the EPA to protect public health and the environment.

Notice of Intent—a public notice or notice of intent is information directed to citizens of a governmental entity regarding government-related activities. Public notices have traditionally been published in specified governmental publications and in local newspapers, a common source for community information.

Ozone (O₃)—ground-level ozone (the primary constituent of smog) is the most complex, difficult to control, and pervasive of the six principal air pollutants. Unlike other pollutants, ozone is not emitted directly into the air by specific sources. Ozone is created by sunlight acting on NO_x and volatile organic compounds (VOC) in

the air. There are thousands of types of sources of these gases. Some of the common sources include gasoline vapors, chemical solvents, combustion products of fuels, and consumer products. Emissions of NO_x and VOC from motor vehicles and stationary sources can be carried hundreds of miles from their origins and result in high ozone concentrations over very large regions.

Particulate Matter (PM)—also known as particle pollution, PM is a complex mixture of extremely small particles and liquid droplets. Particle pollution is made up of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles.

Pathogens—a biological agent that causes disease or illness to its host.

Pb (Lead)—lead is a very toxic element, causing a variety of effects at low-dose levels. Lead is used in the manufacture of batteries, metal products, paints, and ceramic glazes. Exposure to lead can occur from breathing contaminated workplace air or house dust or eating lead-based paint chips or contaminated dirt.

PCBs (polychlorinated biphenyls)—are a group of chemicals consisting of 209 individual compounds. PCBs were widely used as a fire preventive and insulator in the manufacture of transformers and capacitors because of their ability to withstand exceptionally high temperatures. PCBs were banned by the EPA in 1979 and are classified as a probable human carcinogen by numerous national and international health-protective organizations.

Pelagic—of, relating to, or living in open oceans or seas rather than waters adjacent to land or inland waters.

Perennial Streams—streams are those that flow year-round.

Plum Island Animal Disease Center (PIADC)—the laboratory for the diagnosis, research, and training for foreign animal diseases. The USDA Animal and Plant Health Inspection Service (APHIS) Foreign Animal Disease Diagnostic Laboratory is located at PIADC. This laboratory has the capability of diagnosing over 30 foreign animal diseases and is responsible for educating veterinarians in the recognition and diagnosis of these diseases. The USDA Agricultural Research Service operates a program focused on basic discovery and research of foreign animal diseases. The Department of Homeland Security scientific program focuses primarily on the advanced development of vaccines and other countermeasures.

Potable—describes the condition of water as suitable for human consumption; water quality complies with the U.S. EPA standards for drinking water, which regulates various chemical, microbiological, radiological and physical contaminants.

Prion—infectious particle of protein that, unlike a virus, contains no nucleic acid, does not trigger an immune response, and is not destroyed by extreme heat or cold. Prion diseases are usually rapidly progressive and always fatal. These particles are considered responsible for such diseases as scrapie, bovine spongiform encephalopathy, kuru, and Creutzfeldt-Jakob disease.

Pyrophoric—a material that is capable of spontaneous combustion when exposed to air.

Reagent—a substance used in a chemical reaction to detect, measure, examine, or produce other substances.

Sulphur Oxide Gases (SO_x)—these gases dissolve easily in water. Sulfur is prevalent in all raw materials, including crude oil, coal, and ore, that contain common metals like aluminum, copper, zinc, lead, and iron. SO_x gases are formed when fuel containing sulfur, such as coal and oil, is burned: when gasoline is extracted from oil: or metals are extracted from ore.

Teratogen—an agent that causes a structural abnormality following fetal exposure during pregnancy.

Total Maximum Daily Loads (TMDLs)—is a calculation of the maximum amount of a pollutant that a water body can receive and still meet water quality standards, as well as an allocation of that amount to the pollutant's sources.

Virulence—the degree of pathogenicity of a microorganism as indicated by the severity of disease produced and the ability to invade the tissues of the host; by extension, the competence of any infectious agent to produce pathologic effects.

Virus—an infectious agent composed of biological material that requires a host to provide materials necessary to replicate and grow; a virus can not replicate without the support of living hosts, such as bacteria, plants, and animals.

Vivarium—a place, such as a laboratory, where live animals or plants are kept under conditions simulating their natural environment.

Volatile Organic Compounds (VOCs)—are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short- and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to 10 times higher) than outdoors. VOCs are emitted by a wide array of products numbering in the thousands. Examples include paints and lacquers, paint strippers, cleaning supplies, pesticides, building materials and furnishings, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions.

Zoonotic—a term for diseases transmitted by animals to humans.