

PENNSYLVANIA CLEAN AIR: A BIBLIOGRAPHY

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Chapter I. Federal Materials

- A. The Constitution of the United States of America
 - 1. U.S. Const. art. I, § 8, cl. 18. - Enactment of Laws for Execution of Governmental Powers
 - a. The Congress shall have Power . . . To make all Laws which shall be necessary and proper for carrying into Execution the foregoing Powers, and all other Powers vested by this Constitution in the Government of the United States, or in any Department or Officer thereof.
- B. Federal Statutes
 - 1. United States Code Service Title 42. The Public Health and Welfare
 - Chapter 55.** National Environmental Policy
 - § 4321. Congressional declaration of purpose
 - § 4331. Congressional declaration of national environmental policy
 - § 4370m-5. Delegated State permitting programs
 - Chapter 56.** Environmental Quality Improvement
 - § 4371. Congressional findings, declarations, and purposes
 - Chapter 85.** Air Pollution Prevention and Control
 - § 7401. Congressional findings and declaration of purpose
 - § 7408. Air quality criteria and control techniques
 - § 7409. National primary and secondary ambient air quality standards
 - § 7410. State implementation plans for national primary and secondary ambient air quality standards
 - § 7414. Recordkeeping, inspections, monitoring, and entry
 - § 7427. Public notification
 - § 7477. Enforcement
- C. Federal Regulations
 - 1. Code of Federal Regulations
 - Title 40.** Protection of Environment
 - Chapter 1.** Environmental Protection Agency
 - Subchapter C.** Air Programs
 - Part 50.** National Primary and Secondary Ambient Air Quality Standards
 - § 50.1. Definitions.
 - § 50.2. Scope.
 - § 50.3. Reference Conditions.
 - § 50.4. National Primary Ambient Air Quality Standards for Sulfur Oxides (Sulfur Dioxide).
 - § 50.5. National Secondary Ambient Air Quality Standard for Sulfur Oxides (Sulfur Dioxide).
 - § 50.6. National Primary and Secondary Ambient Air Quality Standards for PM10.
 - § 50.7. National Primary and Secondary Ambient Air Quality Standards for PM2.5.
 - § 50.8. National Primary Ambient Air Quality Standards for Carbon Monoxide.
 - § 50.9. National 1–Hour Primary and Secondary Ambient Air Quality Standards for Ozone.
 - § 50.10. National 8–Hour Primary and Secondary Ambient Air Quality Standards for Ozone.
 - § 50.11. National Primary and Secondary Ambient Air Quality Standards for Oxides of Nitrogen (with Nitrogen Dioxide as the Indicator).
 - § 50.12. National Primary and Secondary Ambient Air Quality Standards for Lead.
 - § 50.13. National Primary and Secondary Ambient Air Quality Standards for PM2.5.
 - § 50.14. Treatment of Air Quality Monitoring Data Influenced by Exceptional Events.
 - § 50.15. National Primary and Secondary Ambient Air Quality Standards for Ozone.
 - § 50.16. National Primary and Secondary Ambient Air Quality Standards for Lead.
 - § 50.17. National Primary Ambient Air Quality Standards for Sulfur Oxides (Sulfur Dioxide).
 - § 50.18. National Primary Ambient Air Quality Standards for PM2.5.
 - § 50.19. National Primary and Secondary Ambient Air Quality Standards for Ozone.
 - Part 52.** Approval and Promulgation of Implementation Plans

Subpart NN. Pennsylvania
§§ 52.2020-52.2064

D. Other Federal Documents

1. Congressional Research Service Report

Tsang, Linda. *Key Historical Court Decisions Shaping EPA's Program Under the Clean Air Act* (February 16, 2017). (R43699 – Version 10).

2. United States Department of Justice

Environment & Natural Resources Division, United States Justice Department, *ENRD Accomplishments Report Fiscal Year 2019* (2020).

Environment & Natural Resources Division, United States Justice Department, *ENRD Accomplishments Report Fiscal Year 2021* (2022).

Chapter II. American Law Reports – Federal Annotations

Blum, George L. *EPA Rulemaking As Arbitrary or Capricious*. 20 A.L.R. Fed. 3d Art. 8 (2017).

Blum, George L. *Preemption by Clean Air Act of State Common-Law Claims*. 18 A.L.R.7th Art. 5 (2016).

White, Philip, Jr. *Clean Air Act—Supreme Court Cases*. 7 A.L.R. Fed. 2d 357 (2005).

Wyman, Theodore Z. *Construction and Application of "Maximum Achievable Control Technology" Requirement Under Clean Air Act*. 81 A.L.R. Fed. 2d 451 (2014).

Chapter III. Pennsylvania Constitutional, Statutory, and Administrative Law

A. Constitution of the Commonwealth of Pennsylvania

1. PA Const. art. I, § 27. Natural resources and the public estate

a. The people have a right to clean air, pure water, and to the preservation of the natural, scenic, historic and esthetic values of the environment. Pennsylvania's public natural resources are the common property of all the all the people, including generations yet to come. As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all the people. (May 18, 1971, P.L.769, J.R.3)

B. Pennsylvania Statutes

1. Title 35 P.S. Health and Safety

Chapter 23. Air Pollution

Air Pollution Control Act

§ 4001. Short Title

§ 4002. Declaration of Policy

§ 4004.2. Permissible actions

§ 4004.3. Evaluation

§ 4006.1. Plan approvals and permits

§ 4006.6. Hazardous air pollutants

§ 4007. Public hearings

§ 4007.3. Responsibilities of owners and operators

§ 4010.1. Enforcement orders

§ 4012. Powers reserved to political subdivisions

C. Pennsylvania Regulations

Pennsylvania Code

1. Title 25. Environmental Protection
 - Part I.** Department of Environmental Protection
 - Subpart C.** Protection of Natural Resources
 - Article III.** Air Resources
 - Chapter 121.** General Provisions
 - § 121.2. Purpose.
 - § 121.7. Prohibition of air pollution.
 - § 121.8. Compliance responsibilities.
 - Chapter 131.** Ambient Air Quality Standards
 - § 131.1. Purpose.
 - § 131.2. National Ambient Air Quality Standards.
 - § 131.3. Ambient air quality standards.
 - § 131.4. Application of ambient air quality standards.
 - Chapter 133.** Local Air Pollution Agencies
 - § 133.1. Purpose.
 - § 133.2. Scope.
 - Chapter 137.** Air Pollution Episodes
 - § 137.1. Purpose.
 - § 137.2. Monitoring facilities.
 - § 137.3. Episode criteria.
 - § 137.4. Standby plans.
 - § 137.11. Forecast level actions.
 - § 137.12. Alert level actions.
 - § 137.13. Warning level actions.
 - § 137.14. Emergency level actions.
- D. Local Regulations
 1. Allegheny County Pennsylvania Health Department Rules and Regulations
 - Article XXI. Air Pollution Control
 - §§ 2101.01-2109.20
 2. City of Philadelphia Department of Public Health Air Management Services
 - Philadelphia Code Title 3. Air Management Code
 - § 3-401. Delegation to Air Pollution Control Board and the Department of Public Health.

Chapter IV. Digests and Citators

- A. West Key Number System
 1. 149E. Environmental Law
 - VI. Air Pollution
 - § 241. In general
 - § 242. Power to regulate
 - § 243. Constitutional provisions, statutes, and ordinances
 - § 244. In general
 - § 245. Purpose
 - § 246. Validity
 - § 247. Construction
 - § 248. Retrospective application
 - § 249. Concurrent and conflicting statutes or regulations
 - § 250. In General
 - § 251. Federal preemption
 - § 252. State preemption of local laws and actions
 - § 253. Federal regulation
 - § 254. In general
 - § 255. National ambient air quality standards

- § 256. State and local regulation in general
- § 265. Permits, licenses, and approvals in general
- § 266. Particular sources of pollution
- § 267. In general
- § 268. Stationary sources in general
- § 270. Manufacturing facilities; factories and plants
- § 275. Particular pollutants
- § 276. In general
- § 277. Particulate matter
- § 280. Sulfur and sulfur dioxide
- § 281. Nitrogen oxides
- § 289. Administrative agencies and proceedings
- § 290. In general
- § 291. Regulations and rulemaking in general
- § 292. Notice and comment
- § 295. Enforcement in general

B. Lexis Digest Topics

1. Environmental Law

- Air Quality
- Emission Standards
- Stationary Emission Sources
- Enforcement
- General Overview
- National Ambient Air Quality Standards
- Nonattainment Areas
- Operating Permits
- Preconstruction Permits
- Prevention of Significant Deterioration
- State Implementation Plans
- Environmental Protection Agency
- Rules and Regulations
- Federal Versus State Law
- General Overview

Chapter V. Pennsylvania Legal Encyclopedias

A. 38A Standard Pennsylvania Practice 2d (Westlaw)

1. Chapter 166. Administrative Law and Practice

II. Practice Before Particular Agencies

I. Environmental Hearing Board

Functions and Powers

- § 166:1931. Functions and powers of Environmental Hearing Board, generally
- § 166:1932. Adjudicative powers of Environmental Hearing Board
- § 166:1933. Review of regulations and their application by Environmental Hearing Board
- § 166:1934. Resolution of issues involving department action by Environmental Hearing Board
- § 166:1935. Power of Environmental Hearing Board to issue subpoenas
- General Provisions of Rules Governing Practice Before Board
- § 166:1936. Environmental Hearing Board rules of practice, generally
- § 166:1937. Representation before Environmental Hearing Board
- § 166:1938. Representation before Environmental Hearing Board—Withdrawal of appearance
- § 166:1939. Pleadings in matters before Environmental Hearing Board
- § 166:1940. Intervention and substitution of parties in proceedings before Environmental Hearing Board
- § 166:1941. Motions in proceedings before Environmental Hearing Board

- § 166:1942. Sanctions in proceedings before Environmental Hearing Board
 - B. Summary of Pennsylvania Jurisprudence 2d (Westlaw)
 - 1. Environmental Law
 - Chapter 8. Air Pollution Control**
 - I. Federal Clean Air Act**
 - A. In General
 - 1. Overview
 - § 8:1. History and scope of federal legislation
 - B. Standards for Air Quality and Emissions
 - 1. National Ambient Air Quality Standards (NAAQS)
 - § 8:23. Purpose of National Ambient Air Quality Standards (NAAQS)
 - § 8:24. Methods for establishing primary and secondary National Ambient Air Quality Standards (NAAQS); revisions
 - 2. New Source Performance Standards (NSPS)
 - § 8:25. Purpose of NSPS; sources regulated
 - § 8:26. Method for determining New Source Performance Standards (NSPS); revisions and review
 - § 8:27. Enforcement of new source performance standards
 - II. Pennsylvania's Air Pollution Act**
 - A. In General
 - § 8:50. Purposes of Pennsylvania Air Pollution Control Act
 - § 8:51. Policy of Pennsylvania Air Pollution Control Act
 - § 8:52. Regional organization
 - C. Role of Pennsylvania Department of Environmental Protection (DEP)
 - 1. General Powers and Duties
 - § 8:57. Powers and duties of Pennsylvania Department of Environmental Protection (DEP), generally
 - § 8:58. Citizens Advisory Council and Air Technical Advisory Committee
- C. Pennsylvania Law Encyclopedia (Lexis)
 - 1. 22a P.L.E. Environmental Law 22a-2 (2021)
 - Chapter 2. Air Pollution
 - § 11. Scope of Title
 - § 12. Permits
 - § 13. Standards
 - § 14. Review
 - § 15. Enforcement
 - § 16. Costs and Attorney's Fees

Chapter VI. Reports

- A. National Institutes of Health
National Library of Medicine

Huang Wanyu, Leah H Schinasi, Chén C. Kenyon, Kari Moore, Steven Melly, Rebecca A. Hubbard, Yuzhe Zhao, Ana V. Diez Roux, Christopher B. Forrest, Mitchell Maltenfort, & Anneclaire J. De Roos. *Effects of Ambient Air Pollution on Childhood Asthma Exacerbation in the Philadelphia Metropolitan Region, 2011-2014*. Environ Res. (2021 Jun).

Jbaily, Abdulrahman, Xiaodan Zhou, Jie Liu, Ting-Hwan Lee, Leila Kamareddine, Stéphane Verguet, & Francesca Dominici. *Air Pollution Exposure Disparities Across US Population and Income Groups*. Nature. (2022 Jan).

- B. American Lung Association
American Lung Association. *State of the Air 2022, Tracking Air Pollution & Championing Clean Air* (2022). <https://www.lung.org/getmedia/74b3d3d3-88d1-4335-95d8-c4e47d0282c1/sota-2022.pdf>
- C. Environmental Law Institute
Bernstein, Tobie. Environmental Law Institute, *Reducing Indoor Exposure to Particle Pollution from Outdoor Sources: Policies and Programs for Improving Air Quality in Homes* (Jan. 2020).

A Framework for Community-Based Action On Air Quality. 50 *Env't. L. Rep.* 10808 (October, 2020).

Chapter VII. Periodicals and Newspapers

A. Periodicals

ABA Law Library

"Air Quality." *Environment, Energy, and Resources Law: The Year in Review*, 2020. pp. B-1-B-25 (2020). HeinOnline.

Byrwa-Hill, Brandy M., Arvind Venkat, Albert A. Presto, Judith R. Rager, Deborah Gentile, & Evelyn Talbott. *Lagged Association of Ambient Outdoor Air Pollutants with Asthma-Related Emergency Department Visits within the Pittsburgh Region*. 2020. 17 *Intl J. Env. Research and Public Health* 17 (22): 8619. doi: <https://doi.org/10.3390/ijerph17228619>.
<https://www.proquest.com/scholarly-journals/lagged-association-ambient-outdoor-air-pollutants/docview/2464191357/se-2>.

Dernback, John C. & Marc Prokopchak. *Recognition of Environmental Rights for Pennsylvania Citizens: A Tribute to Chief Justice Castille*. 53 *Duq. L. Rev.* 335 (2015).

Daly, Erin & James R. May. *Robinson Township v. Pennsylvania: A Model for Environmental Constitutionalism*, 21 *Widener L. Rev.* 151 (2015).

Daniels, Brittany L. *Comment: Caution: Hazards Ahead! How the EPA's Refusal to Classify Coal Ash as Hazardous Waste Fuels Environmental and Public Health Concerns*. 27 *Vill. Envtl. L.J.* 93 (2016).

Engelman Lado, Marianne. *No More Excuses: Building a New Vision of Civil Rights Enforcement in the Context of Environmental Justice*. 22 *U. Pa. J.L. & Soc. Change* 281 (2019).

Ferrey, Steven. *Phantom Regulation: New Supreme Court Algorithm Changing Executive Power*. 3 *U. Pa. J. L. & Pub. Aff.* 107 (2018).

Freeman, Jody & David B. Spence. *Old Statutes, New Problems*. 163 *U. Pa. L. Rev.* 1 (2014).

Griest, Melissa A. *Contemplating Aggregation In Pursuits of Conservation: Clean Air Council v. Commonwealth and the Project Aggregation Principle*. 31 *Vill. Envtl. L.J.* 285 (2020).

Hudson, Blake. *Structural Environmental Constitutionalism*. 21 *Widener L. Rev.* 201 (2015).

Lloyd, Edward. *Supplemental Environmental Projects Have Been Effectively Used in Citizen Suits to Deter Future Violations as Well as to Achieve Significant Additional Environmental Benefits*, 10 *Widener L. Rev.* 413 (2004)

Loiseau, Marie. *Revived Authority in Article I, Section 27 of the Pennsylvania Constitution: The Commonwealth's New Affirmative Duty to Protect the Atmosphere*. 91 *Temp. L. Rev.* 183 (2018).

Palmer, Alexander N. *A Prophecy Misread That Could Have Been: Regulatory Adjudications and a Weakening of the Environmental Rights Amendment in Logan v. Department of Environmental Protection*. 30 Vill. Envtl. L.J. 269 (2019).

Reidel, Jen. *The Origin of Federal Air Pollution Policy*. 87 no. 7 The Science Teacher 68 (2020). <https://www.proquest.com/scholarly-journals/origin-federal-air-pollution-policy/docview/2376663584/se-2?accountid=10610>.

Richmond-Bryant, Jennifer, Ihab Mikati, Adam F. Benson, Thomas J. Luben, & Jason D. Sack. *Disparities in Distribution of Particulate Matter Emissions from US Coal-Fired Power Plants by Race and Poverty Status After Accounting for Reductions in Operations Between 2015 and 2017*. 110 no. 5 Am. J. Pub. Health 655–661 (May 2020). <https://www.proquest.com/scholarly-journals/disparities-distribution-particulate-matter/docview/2392007447/se-2?accountid=10610>.

B. Legal Newspapers - Pennsylvania

The following are articles dealing with clean air that have been published in the Pennsylvania Law Weekly since Jan. 1, 2020.

Administrative Law, Section: Commonwealth Court. 44 no. 26 P.L.W. 17 (June 29, 2021).

Capital Report. 43 no. 31 P.L.W. 9 (Aug. 4, 2020).

Clapp, Ben, Varun Shekhar, Casey Snyder, & Brianne Kurdock. *Council on Environmental Quality Proposes Amendments to NEPA Regulations*. 43 no. 5 P.L.W. 5 (Feb. 4, 2020).

Domike, Julie R. & Gina N. Falaschi. *New Clean Transportation Initiatives Coming to Pennsylvania*. 43 no. 31 P.L.W. 5 (Aug. 4, 2020).

Environmental Law, Section: Third Circuit 44 no. 27 P.L.W. 21 (July 6, 2021).

Mandelbaum, David G. *Basing an Environmental Expert Opinion on 'Multiple Lines of Evidence'*. 44 no. 14 P.L.W. 10 (Apr. 6, 2021).

Mandelbaum, David G. *Environmental Cases in the Pennsylvania Appellate Courts During 2019*. 43 no. 3 P.L.W. 5 (Jan. 21, 2020).

Mandelbaum, David G. *Identifying The Natural Resources Subject To The Environmental Rights Amendment*. 44 no. 33 P.L.W. 8 (Aug. 17, 2021).

Mandelbaum, David G. *What Impact Review Does Pennsylvania's ERA Require?*. 45 no. 8 P.L.W. 5 (Feb. 22, 2022).

Steinbauer, Gary. *Major Air Regulatory Developments Anticipated For Pa. Natural Gas Operators*. 44 no. 24 P.L.W. 8 (June 15, 2021).

Chapter VIII. Treatises

A. General Treatise

Grad, Frank P., *Treatise on Environmental Law*, Ch. 2 (2022).

§ 2.01. Sources and Effects of Air Pollution

§ 2.02. The Protection of Private Rights to Be Free From Air Pollution

§ 2.03. Federal Regulation of Air Pollution From Stationary Sources

§ 2.04. State and Local Regulation of Air Pollution

§ 2.05. Intergovernmental Issues in Air Pollution Control

§ 2.06. Governmental Regulation of Air Pollution From Moving Sources

§ 2.06A. Diesel—A Fuel With a History

§ 2.07. Burden of Proof and Evidentiary Requirements

§ 2.08. Sanctions and Remedies—General Considerations

§ 2.09. Acid Rain
§ 2.10. Indoor Air Pollution

11A Fed. Proc., L. Ed. § 32:518. *Operating permits, generally; submission and approval of state program.*

Rodgers, William H. Jr., *Environmental Law* §§ 6:1-6:12 (2nd ed. 1994).

Chapter 6. Clean Air Act

Part I. In General

§ 6:1. Giving Public Health 12 Chances – Introduction

§ 6:2. Purposes and Outline

§ 6:3. Legal Confirmation of the Public Health Goals

§ 6:3.50. Congressional Review Act: Cost-Benefit Analysis, Secret Science and Recent Rollbacks

Part II. The Geography of Clean Air and “Air Pollutant”

§ 6:4. “Air Pollutant”

§ 6:5. “Ambient Air” and “Inside” Air Pollution

§ 6:6. Clean Air Act: Congressional Findings and Declaration of Purposes; Role of the States and State Implementation Plans; Description of Programs

§ 6:7. Congressional Findings and Declaration of Purpose

§ 6:8. State Implementation Plans and Other Key Definitions

§ 6:9. Key SIP Definitions

§ 6:10. Federal Review and Approval

§ 6:11. Failures of State Implementation Plans

§ 6:12. State Implementation Plans – A Sampler

B. Pennsylvania Treatises

1. Treatises

The following are resources dealing with clean air that have been published since Jan. 1, 2015.

We used the online card catalog and did not have the physical book, therefore we were not able to access page numbers.

The Air Pollution Control Act. [Ch. 5]. Pennsylvania Environmental Law and Practice. (2 vols. 8th ed. Andrew T. Bockis, Scott A. Gould, Eds., 2015). PBI no. 8583.

[Friedman, Richard H.?]. *Federal Air Pollution Law and Regulations Affecting Pennsylvania.* [Ch. 6] Pennsylvania Environmental Law and Practice. (2 vols. 8th ed. Bockis, Andrew T., Scott A. Gould, Eds. 2015). PBI no. 8583.

Friedman, Richard H. *Federal Air Pollution Law and Regulations Affecting Pennsylvania.* Pennsylvania Environmental Law and Practice. (2 v. 9th ed., Andrew T. Bockis, Scott A. Gould, Eds., 2017). PBI no. 9597.

Reilly, Robert A. *The Air Pollution Control Act.* Pennsylvania Environmental Law and Practice. (2 v. 9th ed., Andrew T. Bockis, Scott A. Gould, Eds., 2017). PBI no. 9597.

2. CLE Publications

Advanced Air Permitting. [Ch. 15]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Air and Water Permitting: What's the Lawyer's Role? [Ch. 24]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Air and Water Quality Modeling. [Ch. 17]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Bomstein, Alexander. *Federal & State Air Quality Updates -- Federal & State air quality Updates.* [Ch. 33]. Environmental Law Forum (2019). PBI no. 2019-10085.

Clean Air Act Litigation. [Ch. 6]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Clean Air Act Litigation. [Ch. 15]. 21st annual Environmental Law Forum (2016). PBI no. 2016-9137.

Clean Air Act Litigation. [Ch. 6]. 22nd annual Environmental Law Forum (2017). PBI no. 2017-9573.

Duke, Alecia R., Mark C. Hammond, Charles McPhedran. *Clean Air Act Litigation Update: Focus on Litigation/Cases*. [Ch. 12]. Environmental Law Forum (2018). PBI no. 2018-10084.

Federal & State Air Quality Control Update. [Ch. 2]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Federal & State Air Quality. [Ch. 6]. 21st annual Environmental Law Forum (2016). PBI no. 2016-9137.

Federal & State Air Update. [Ch. 2]. 22nd annual Environmental Law Forum (2017). PBI no. 2017-9573.

Hammond, Mark C. *Clean Air Act Litigation Update: Interesting Environmental Hearing Board (EHB)*. [Ch. 37]. Environmental Law Forum (2019). PBI no. 2019-10085.

Hammond, Mark C. *DEP Air Permit Practitioner Practice Points Inspired by Recently Filed Appeals and EHB Decisions*. [Ch. 13]. Environmental Law Forum (2018). PBI no. 2018-10084.

Hot Topics and Advanced Air Permitting. [Ch. 10]. 21st annual Environmental Law Forum (2016). PBI no. 2016-9137.

Hot Topics in Air Permitting. [Ch. 10]. 20th Annual Environmental Law Forum (2015). PBI no. 2015-8548.

Pennsylvania's Participation in the Regional Greenhouse Gas Initiative. [Ch. 8]. Environmental Law Forum (2020). PBI no. 2020-11042.

Robbins, Sean L., Jennifer A. Smokelin, J. Robert Stoltzfus. *Federal and State Air Quality Update*. [Ch. 2]. Environmental Law Forum (2018). PBI no. 2018-10084.

Slade, John F., Katherine L. Vaccaro. [Ch. 24]. *Reclassification of Major Sources as Area Sources Under Section 112 of the Clean Air Division Directors, January 25, 2018*. Environmental Law Forum (2018). PBI no. 2018-10084.

Slade, John F., Katherine L. Vaccaro. *Hot Topics and Advanced Air Permitting*. [Ch. 19]. Environmental Law Forum (2018). PBI no. 2018-10084.

Stoltzfus, Robert J. *Federal Air Quality Update*. [Ch. 3]. Environmental Law Forum (2018). PBI no. 2018-10084.

Understanding Air and Water Permitting. [Ch. 31]. 21st annual Environmental Law Forum (2016). PBI no. 2016-9137.