PROTECTING THE ENVIRONMENT THROUGH LAND USE LAW: STANDING GROUND

by John R. Nolon

Design Commentary by Robert N. Lane, RA

ENVIRONMENTAL LAW INSTITUTE Washington, D.C.

Copyright © 2014 Environmental Law Institute 2000 L Street, NW, Washington DC 20036; www.eli.org First edition co-published by the American Planning Association, with offices at 205 N. Michigan Ave., Suite 1200, Chicago, IL 60601 and 1030 15th Ave., NW, Suite 750 West, Washington, DC 20005; www.planning.org

Published September 2014.

Printed in the United States of America ISBN 978-1-58576-171-5

Contents

About the	e Aut	chorxv
Author's	Prefa	ce and Acknowledgementsxvii
Planning	Forw	vardxxi
Legal For	ewor	dxxv
Chapter 1	1: Th	te Long Arch of Local Environmental Law1
I.	The	Ancients Stole All Our Good Ideas1
	A.	Antecedents From Before the Common Era1
	В.	Early U.S. Efforts to Balance Conservation and Development
	C. 5	Setting the Stage for a New Legal Regime5
II.		nbining Land Use and Environmental Values6
	A.	The First Fifty Years—Conservation Light6
	В.	Early Case Studies: Florida, Colorado, California, and New York
	C.	Abiding Discontent With the Reigning Land Use System
III.	The	Advent of Local Environmental Law10
IV.		rent Trends in a Changing Society13
	A.	Demographic Trends
	В.	Projected Growth and Development
	C.	The Ultimate Perturbation—Climate Change14
V.	Con	iclusion: Local Environmental Law in America15
	A.	Chapter-by-Chapter: The Story of U.S. Land Use Law and the Environment
	В.	How to Use the Law for Positive Change

iv Standing Ground

Chap			otecting the Environment Through Land Use Law: ng Ground	.23
	I.		rview of Land Use Regulation and Environmental	
				. 23
		A.	The Original Blueprint	
		В.	Common Law Origins and the Colonial Period	
		C.	The Formation of the Federal Republic	
		D.	The Modern Era of Zoning	
	II.	Expl	oring Municipal Authority to Control Private	
			d Use and Its Limitations	. 33
		A.	Interpreting Local Authority	.33
		B.	State and Federal Guidance for Localities	.35
		C.	State and Federal Preemption of Local Control	.36
	III.	Shar	ed Responsibility for Protecting the Environment	. 37
		A.	Overlapping Regulations	.37
		B.	Strategies for Integration	.38
	IV.		mpts to Collaborate: Stormwater Management	
		and	the Total Maximum Daily Load Programs	
		A.	Stormwater Management	
		В.	Total Maximum Daily Loads (TMDL)	
	V.	Hyd	raulic Fracturing: Fragmenting the Federal System	
		A.	Who Should Decide?	.47
		В.	Federal Regulation of Environmental Pollution	
			Caused by Hydraulic Fracturing	
		C.	State Regulation of Drilling Operations	
		D.	Local Regulation of Land Use Impacts	
		E.	Cooperative Governance	
	V.	Integ	grating Governmental Influences	. 56
Chap	oter 3	8: An	Environmental Understanding of the Local Land	
•			stem	.61
	I.	Plan	ning, Zoning, and Land Development Basics	.61
		A.	The Basics of Land Use Planning	.61
		В.	The Rapid Rise of Zoning	.62

Table of Contents

	C.	Land Development Regulations and Plan	
		Consistency	63
II.	Lan	d Use Plans and the Environment	63
	A.	The Comprehensive Plan	63
	В.	Development of the Plan	64
	C.	Content of the Plan	65
	D.	Environmental Benefits of Plan Consistency	66
	E.	Periodic Review	67
	F.	Area Specific Plans	67
	G.	Intermunicipal, Regional, and Interstate Planning	68
III.	Zon	ing and the Environment	. 69
	A.	Definition and Legal Authority	69
	B.	Examples of Local Zoning That Protects the	
		Environment	
	C.	Zoning Amendments	
IV.	Lan	d Development Regulations	
	A.	Site Plan Regulations	76
	В.	Subdivision Regulations	79
	C.	Cluster Development and Conservation	
		Subdivisions	. 81
V.		Review and Approval of Land Development	0.4
	•	posals	
	A.	Local Land Use Boards	
	В.	Approving Projects to Protect the Environment	
VI.		uncing Conservation and Development	
	Α.	Area Designation and Growth Management	
	В.	Balance Over Time—Phasing Public Facilities	
	C.	Environmental Impact Review	
	D.	Incentive Zoning	
	E.	Overlay Zoning	
	F.	Planned Unit Development Zoning	
	G.	Transfer of Development Rights	
	Н.	Sustainable Neighborhood Development	98

vi Standing Ground

	VII.		Sustainable Development Law Movement:	
		Reac	ting to Climate Change	
		A.	New Environmental Challenges	
		В.	Opportunity for Sustainable Development	. 102
Chap	oter 4	í: Inn	novations in Local Environmental Law	. 109
	I.	Loca	l Environmental and Land Use Law	. 109
	II.	Prote	ecting Natural Resources Through Local	
		Envi	ronmental Law	. 110
		A.	Purposes	. 110
		В.	Watershed Protection and Management	.113
		C.	Stormwater Management	.119
		D.	Wetlands Protection	. 123
		E.	Floodplains	. 129
		F.	Erosion and Sediment Control	. 133
		G.	Fish and Wildlife Habitat	. 137
		H.	Ridgeline Protection	. 142
		I.	Scenic Resources	
		J.	Steep Slope Protection	. 149
		K.	Timber Harvesting Regulation	
		L.	Tree Preservation	
	III.	АН	olistic Approach: The Environmental Protection	
			rlay District	. 159
		A.	Review of Overlay Zoning	. 159
		B.	A Model Environmental Protection Overlay	
			District	. 159
		C.	Purpose and Objectives	. 159
		D.	Conservation Area Management	. 160
	IV.	Crea	ting a Local Environmental Law Program	. 161
		A.	Form a Citizen Task Force	. 162
		B.	Conduct an Open Space Inventory	. 162
		C.	Create a Greenprint	
		D.	Include the Greenprint in the Comprehensive	
			Plan	. 164

Table of Contents vii

	E.	Amend Zoning	164
	F.	Enact Project Review Standards	165
	G.	Enforcement	165
	Н.	Work with Landowners and Acquire Most	
		Sensitive Parcels	166
	I.	Cooperate With Adjacent Municipalities	167
	J.	Leverage State and Federal Resources	167
V.	Exte	ending the Reach of Environmental Law	168
Chapter	5: Op	pen Space Preservation and Biological	
S	eques	tration1	175
I.	Land	d Use Strategies That Preserve Open Space	175
	A.	Righting the Loss of Open Space	175
	В.	Open Space and Its Functions	175
	C.	The Primacy of Local Power	176
	D.	Local Strategies	177
II.	Loca	al Open Space Preservation Techniques	178
	A.	Zoning and Planning	178
	В.	Better Site Planning	182
	C.	Clustering Development	184
	D.	Low Impact Conservation Subdivisions	186
	E.	Supplemental Regulations	188
	F.	Density Bonuses	188
	G.	Transfer of Development Rights	189
	Н.	Timber-Harvesting Ordinances	190
	I.	Rearranging Development on Multiple Parcels	192
III.	The	Strategic Acquisition of Open Lands	192
	A.	State and Local Authority to Acquire Land	192
	B.	State Financing of Open Space Acquisition	196
	C.	Local Financing Sources	198
	D.	Land Acquisition Techniques	199

viii Standing Ground

IV.		alibrating Open Space Law to Manage Climate	
	Cha	inge	203
	A.	Bringing Open Space Law to Scale: Biological	
		Sequestration	203
	В.	The Gathering Consensus Regarding Climate	
		Change Management	204
	C.	The Importance of Biological Sequestration to	
		Mitigate Climate Change	206
	D.	Using Open Space Law to Accomplish	
		Sequestration	209
	E.	Toward a National Strategy for Biological	210
		Sequestration	210
Chapter (6: Cl	imate Adaptation and Disaster Mitigation: Land	
_		rategies	217
I.	Clir	nate Change, Adaptation, and Disasters	217
	A.	Inundation, Flooding, and Fiercer Storms	217
	В.	Policy Options	219
	C.	Local Role: First Affected and First to Respond	221
Л.	Fed	eral Actions: Policy, Funding, and Technical	
	Assi	stance	224
	A.	Supportive Role of the Federal Government	224
	В.	Disaster Mitigation Act of 2000	
	C.	Coastal Zone Management Act of 1972	227
III.	Stat	e Actions: Plenary Power and Coordination	
	A.	Intermediary Between Federal and Local	
		Governments	229
	В.	Types of State Actions	231
	C.	Florida: A Case Study in Direct State Action—	
		Beach Renourishment	
IV.	Loc	al Initiatives	237
	A.	General Strategies	237
	В	Case Studies	2/-

Table of Contents ix

	V.	Deal	ling With Judicial Decisions	. 249	
		A.	Ambiguity in Supreme Court Jurisprudence	. 249	
		B.	Antidotes for the Legacy of Lucas	. 250	
		C.	Changes in the Regulatory Environment	. 253	
	VI.	Soci	eties Choosing to Succeed	. 254	
Chaj	pter 7	: En	hancing the Urban Environment Through Green		
	In	frasti	ructure	. 261	
	I.	The	Advent of Green Infrastructure	. 261	
		A.	Definition	. 261	
		В.	Benefits and Purpose	. 263	
		C.	The Emergence of a New Urban Planning		
			Initiative	. 264	
	II.	Initi	atives That Emphasize Green Infrastructure	. 265	
		A.	Low Impact Development	. 265	
		В.	Sustainable Sites Initiative (SITES™)	. 268	
		C.	LEED for Neighborhood Development	. 273	
		D.	SmartCode	. 276	
		E.	Urban Agriculture	. 277	
	III.	Addi	itional Techniques That Advance Green		
			astructure	. 277	
		A.	Increasing Tree Canopies	. 278	
		В.	Green Roofs and Planters	. 280	
		C.	Xeriscaping Requirements	. 282	
		D.	Green Streets	. 283	
		E.	Rainwater Harvesting and On-site Retention		
		F.	Green Infrastructure Maintenance: Ensuring		
			Continued Compliance	. 286	
	IV.	A M	Iunicipal Case Study: Portland, Oregon		
	V.		sroots Strategy		
		A.	Citizen Engagement		
		В.	The Natural Resource Inventory		
		C.	Green Infrastructure Planning in a Dense Urban		
			Community	. 294	
	Appe	endix	: Further Resources		
	71				

Chapter 8	3: Ur	·ban Agriculture	299
I.	АТ	ruly Local Movement: Urban Agriculture and	
	Lan	d Use Law	299
	A.	Definition	300
	B.	Trends	300
II.	Ben	efits of Urban Agriculture	302
	A.	Environmental	302
	B.	Health	303
	C.	Economic	304
III.	Con	ncerns Raised by Urban Agriculture	305
IV.	Lan	d Use Barriers to Urban Agriculture	307
	A.	District or Zone Limitations	307
	B.	Lot Sizes and Setbacks	308
	C.	Number and Licensing of Animals	308
	D.	Restrictions on Sale of Products From Urban	
		Farms	309
V.	Zon	ning Changes That Legalize Agriculture Uses	309
	A.	Seattle, Washington	310
	B.	Pittsburgh, Pennsylvania	310
	C.	Philadelphia, Pennsylvania	311
	D.	Jersey City, New Jersey	311
	E.	Portland, Oregon	311
	F.	New York, New York	312
VI.	Rec	ommendations for Further Cultivation	313
	A.	Adopt a Policy Statement or Municipal Resolu	ıtion
		Supporting Urban Agriculture	313
	B.	Establish an Urban Agriculture Task Force	314
	C.	Amend the Zoning Ordinance and Related	
		Regulations	318
	D.	Other Municipal Efforts to Promote Urban	
		Agriculture	318
VII.	- 0	llitating the Movement Through Land Use Law	2.5
	Ref	orm	319

Table of Contents xi

App		: City and County of San Francisco, California: an Agriculture	.320
	9: Ba	lancing Conservation and Development Through	
		nmental Impact Review	. 327
I.		e of Environmental Impact Review: NEPA and Its	
	Prog	geny	
	A.	The National Environmental Policy (NEPA)	. 327
II.		e Environment Policy Acts and Their Effects on	
		al Governments	
	A.	Overview of State Environmental Policy Acts	. 328
	В.	The California Environmental Quality Act	. 328
	C.	New York—The State Environmental Quality	
		Review Act	
	D.	The Washington State Environmental Policy Act	.342
III.		ond SEPAs: Implied Authority of Local	
		ernments to Conduct Environmental Reviews	
	A.	Implied vs. Express Powers	
	В.	Authority to Enact Land Use Regulations	. 347
	C.	Authority to Adopt Local Environmental Impact	
		Review	
	D.	Local Illustrations	
IV.	Adv	anced Environmental Impact Review Techniques	.355
	A.	Master Impact Reviews, Program EIRs, and	
		Generic Environmental Impact Statements	
	В.	Cumulative Impact Analysis (CIA)	. 356
	C.	Critical Environmental Areas	
	D.	Mitigation Conditions	. 360
	E.	Avoiding Unconstitutional Conditions Using EIR	
		Techniques	. 362
V.		grating Environmental Impact Review With Local	
	Plan	ning	. 364
	A.	Potential Duplication and Inefficiency in	
		Environmental Review	.364

xii Standing Ground

		В.	Methods of Integration	364		
	VI.		g Environmental Impact Review to Balance			
		Cons	servation and Development	367		
	Appendix: Streamlining the Environmental Impact Review					
		of R	edevelopment Projects	368		
Char	ster 1	0. Fr	nvironmental Dispute Resolution and Land Use			
Ciiaj			nmaking	377		
	I.		Use Decisions and Negotiations: Inherent	011		
			Ticts and Alternative Processes	377		
		A.	Achieving Balance Through Conflict Resolution			
		В.	Land Use Decisions As Negotiations			
		C.	Using Dispute Resolution Early to Minimize	0, 0		
			Conflict	379		
		D.	Understanding Mediation	380		
		E.	Opportunities to Use Dispute Resolution in Land			
			Use Decisionmaking			
		F.	Community Leaders As Facilitators	383		
	II.	Histo	ory and Legal Authority: Mediation and Land			
			Conflicts	383		
		A.	The History of Mediation	383		
		B.	The Evolution of Mediation in Land Use			
			Resolution	384		
		C.	Statutorily Authorized Mediation	386		
		D.	Mediated Settlements Achieved by Stakeholders in			
			the Absence of Statutory Authorization	387		
	III.	The	Theory and Techniques of EDR	391		
		A.	Interest-Based Negotiation	391		
		B.	The Mutual Gains Concept: Interests Versus			
			Positions	393		
		C.	Reasons to Use Consensus-Building Techniques	394		
		D.	Common Objections to Consensus-Building			
			Techniques and Responses			
	IV.		to Build Consensus			
		Step	1: Identify the Key Stakeholders	399		

Table of Contents xiii

	Step 2: Assess Feasibility of a Consensus-Building	
	Process	400
	Step 3: Prepare for the First Meeting	400
	Step 4: Convene Meeting	401
	Step 5: Conduct of Meetings	402
	Step 6: Meeting Summary	402
	Step 7: Implementation	402
V.	Adopting a State Law Supporting Land Use	
	Mediation	403
VI.	Supplementing the Land Use Decisionmaking	404
	Process	
App	endix: Model Local Land Use Mediation Law	405
Index		411

About the Author

John R. Nolon is Professor of Law at Pace Law School and is Counsel to the Law School's Land Use Law Center. He has been an Adjunct Professor of Land Use Law and Policy at the Yale School of Forestry and Environmental Studies since 2001. In 2009, he received the National Leadership Award for a Planning Advocate by the American Planning Association; in 2014, the International City/ County Management Association presented him its Honorary Membership Award, its highest honor for a person outside the city management profession



for his exemplary service to local government. He served President Carter's Council on Development Choices for the 1980's, President Clinton's Council on Sustainable Development, New York Governor George Pataki's Transition Team, and Governor Elliot Spitzer's Transition Team. Professor Nolon received a Fulbright Scholarship to develop a framework law for sustainable development in Argentina where he worked from 1994 through 1996. He has published four books for the Environmental Law Institute and is coauthor of three books for Thomson-West: the nation's oldest casebook on land use law, Land Use and Sustainable Development Law: Cases and Materials; Land Use in a Nutshell; and Climate Change and Sustainable Development Law in a Nutshell.

Author's Preface and Acknowledgements

The idea for this book arose when the Environmental Law Institute (ELI) proposed that I update four books of mine that it published over the last dozen years: all with "Ground" in their title. This publishing journey with ELI began in 2001 with Well Grounded: Using Local Land Use Authority to Achieve Smart Growth, which celebrated the democratic foundation of local land use law and the many local land use plans and laws that properly order growth, while recognizing the jurisdictional limits of the nation's 40,000 local governments and the fact that many of their zoning ordinances induce sprawl, rather than smart growth. Well Grounded was to serve as a best practices manual, helping more localities make proper use of their legal authority to balance growth and conservation and urging state and federal policymakers to assist.

Two books followed that described municipal efforts to use land use authority to protect natural resources and environmental functions: *Open Ground: Effective Local Strategies for Protecting Natural Resources* and *New Ground: The Advent of Local Environmental Law.* These books demonstrated how effectively and expansively local governments can protect watersheds, wetlands, habitats, species, and other natural resources and serve as full partners of state and federal agencies in managing stormwater, limiting surface and ground water pollution, and controlling many of the adverse effects of nonpoint source pollution.

The last in the series was *Losing Ground: A Nation on Edge*, published in the horrific wake of Hurricane Katrina: a book that examined the failed national legal system that leaves localities ill-served as they sift through the ruins of natural disasters, managing recovery and planning for the future as the level of government that is closest to the people and property affected.

All of these books urge lawyers and planners, as well as those who teach law and planning and their students, to understand the importance of local land use law in our federal system of laws, and to help create an integrated approach to environmental protection that fully incorporates the competencies of each level of government.

Rather than update each of these publications, it seemed more prudent and strategic to integrate all four in a single book, informed by my subsequent publications, which have attempted to define Sustainable Development Law and its enormous potential to mitigate and adapt to climate xviii Standing Ground

change. The result is this volume: *Protecting the Environment Through Land Use Law: Standing Ground*. From Chapter 1 to the book's conclusion, we examine the local environmental legal system's struggle to balance the forces of growth and development with the strong American ethic of conservation.

I write "we" for a reason. This book bears the indelible fingerprints of all five of the staff attorneys who work at the Land Use Law Center at Pace Law School and many of the students who work and study at the Center. This is "our" book; all royalties go to the Center to support the continuing work of its staff and students.

Each of the Center's staff attorneys has extensive experience advising local governments how to reform their laws to balance conservation and development. Together, they have worked and written on many of the subjects covered in this book. Their knowledge is evident in my reflections, which are greatly informed by their efforts and insights. The overall theme of the book and much of Chapter 1 comes directly from the materials that Adjunct Professor and Senior Staff Attorney Jennie Nolon Blanchard uses to teach students in her summer land use externship program, which functions as a clinic that involves students with the many programs and research projects of our Center. Executive Director and Adjunct Professor Jessica Bacher contributed research and case studies to the discussion of local efforts to respond to sea level rise and storm surges in Chapter 6. Senior Staff Attorney and Adjunct Professor Jeffery LeJava's work regarding urban agriculture and green infrastructure expanded my understanding of the topics covered in Chapters 7 and 8. The work of Deputy Director and Adjunct Professor Tiffany Zezula helped inform the approach I took in exploring the mediation of land use disputes in Chapter 10. Additional thanks are owed to former Executive Director, now Associate Professor at Vermont Law School, Sean Nolon, for allowing us to use material in Chapter 10 from his Lincoln Institute of Land Policy publication, Land in Conflict, and to former student Kathryn Plunkett, now at Sullivan and Cromwell, LLP, for her work on the use of environmental impact review by local governments to mitigate the adverse impacts of development projects on natural resources.

In addition, nearly two dozen Pace law students have helped us research and edit this volume, making it possible to update and expand the explorations of the first four publications. Steve Gavin and Allison Sloto, who served as my research assistants during the past three years, deserve special mention. Steve sorted and sifted through the first four books and my related law review articles to create a coherent outline for *Standing Ground* and organized materials in preparation for drafting its chapters. Allison then worked with me

nearly every day for a year as we wrote, reworked, and finalized the 10 chapters. She edited my work, helped to correct course at several critical junctures, and supervised the other students who helped us update and expand my earlier writings. Allison also managed the efforts of student editors Anne Haas, Roisin Grzegorzewski, and Kelly Nishikawa, who also checked and corrected the endnotes in each chapter, thus earning my everlasting thanks.

Listed alphabetically, these additional students lent a hand while working as externs, seminar participants, or volunteers; many of them contributed meaningfully to one or more of *Standing Ground*'s chapters: Matthew Cleary, Cayleigh Eckhardt, Wesley Dyer, Katherine Fiedler, Elyse Foladare, Drew Gamils, Cassia Horvitz, David Kenny, Stellina Napolitano, Anthony Papetti, Elizabeth Rubenstein, Michael Sargo, and Marissa Weiss.

There are two forewords to *Standing Ground*: one written by a distinguished legal scholar deeply versed in municipal and land use law; the other by an equally distinguished regional planner and urban designer, with vast expertise in counselling municipal officials in balancing landscapes. They speak to the two professions that are challenged to guide localities to use their state-delegated authority to control sustainably the use of private land. This book is jointly published by an environmental and a law book publisher and will be marketed, in part, by the American Planning Association.

Our staff's work in the field has placed them alongside literally thousands of local land use leaders whose innovative strategies and hard work are transforming their buildings, neighborhoods, and communities. They too—these leaders and the members of the two professions that support them—are the "we" who have contributed to this book. Without the inspiration of their progress, I would never have started this journey.