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Project XL: Directory of Project Experiments and Results

2000 Comprehensive Report
Volume 2

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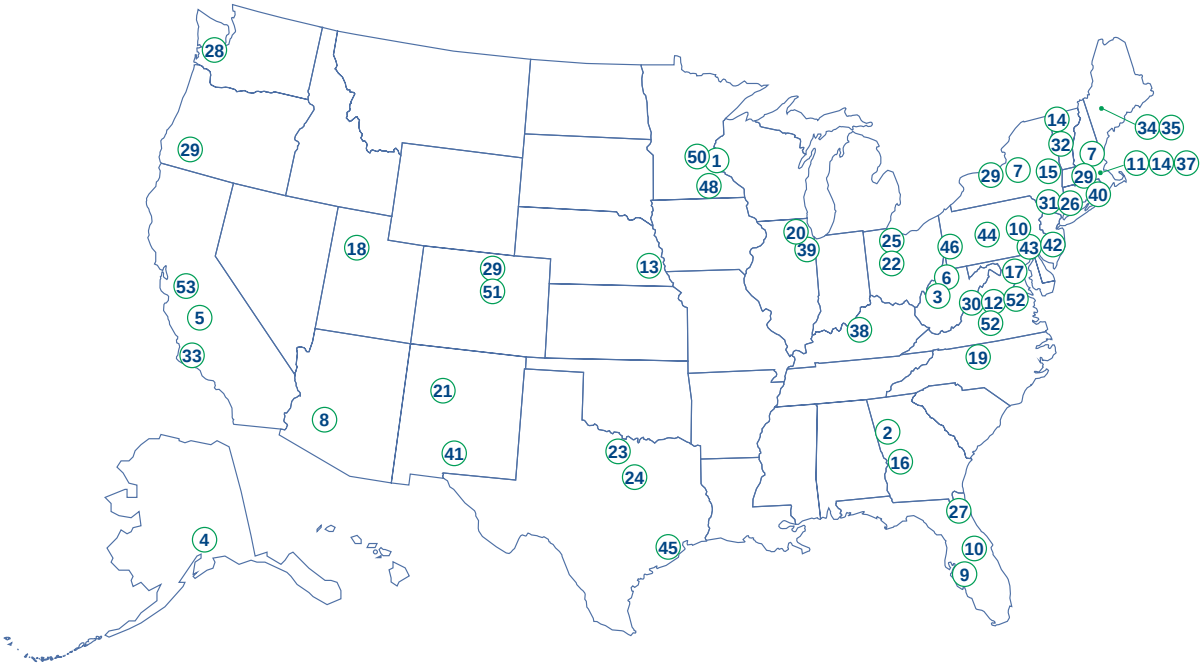
Project XL 2000 Comprehensive Report compiles available information on Project XL. It follows up the work started in the *Project XL 1999 Comprehensive Report* (October 1999).

This report has two volumes. *Volume 1: Directory of Regulatory, Policy, and Technology Innovations* describes more than 70 innovations being explored by Project XL. These innovations are catalogued by the core functions that are the fundamental processes and operations the U.S. Environmental Protection Agency must use in order to perform its mission to protect human health and the environment. Volume 1 presents technical and policy information relevant to each innovation.

Volume 2: Directory of Project Experiments and Results summarizes the more than 50 projects and project proposals Project XL has produced to date. The 16 projects that have been underway for a year or more are described in some detail, including, background, progress in meeting commitments, benefits for the environment, benefits for stakeholders, benefits for the project sponsor, spin-off benefits (where applicable), key issues needing resolution, lessons learned, and information resources. For the 37 projects in implementation for less than one year or still under development, only background information is given.

For a short overview of program accomplishments please see *Encouraging Innovation, Delivering Results* (September 2000) @ *http://www.epa.gov/projectxl/*.

Location of XL Projects



Projects in Implementation December 1999 or Earlier

1. Andersen Corporation, Bayport, MN
2. Atlantic Steel Redevelopment, Atlanta, GA
3. Crompton Corporation Sistersville Facility (formerly Witco), Sistersville, WV
4. DOD: Elmendorf Air Force Base, Anchorage, AK
5. DOD: Vandenberg Air Force Base, Santa Barbara County, CA
6. ExxonMobil Corporation, Fairmont, WV
7. HADCO Corporation, Derry, and Hudson, NH; Owego, NY
8. Intel Corporation, Chandler, AZ
9. Jack M. Berry Corporation, LaBelle, FL
10. Lucent Technologies, Allentown, and Reading, PA; Orlando, FL
11. Massachusetts Dept. of Environmental Protection-ERP, Commonwealth of Massachusetts
12. Merck & Co. Inc., Elkton, VA
13. Molex Incorporated, Lincoln, NE
14. New England Universities Laboratories, Boston College, University of Massachusetts-Boston, University of Vermont
15. NY State Dept. of Environmental Conservation, State of New York
16. Weyerhaeuser Company, Ogelthorpe, GA

Projects Underway or Under Development Since December 1999

17. Anne Arundel County Bioreactor, Severn, MD
18. Autoliv Automotive Safety Devices, Promontory, UT
19. Buncombe County Landfill, Buncombe County, NC
20. Chicago Regional Air Quality and Economic Development Strategy, Chicago, IL
21. City of Albuquerque, Albuquerque, NM
22. City of Columbus (XLC), Columbus, OH
23. City of Denton, Denton, TX
24. City of Fort Worth, Forth Worth, TX
25. Clermont County Watershed Management Program, (XLC) Clermont, OH
26. Crompton Corporation TBT Project, Greenwich, CT
27. DOD: Naval Station Mayport, Jacksonville, FL
28. DOD: Puget Sound Naval Shipyard, Bremerton, WA
29. Eastman Kodak Corporation, Rochester, NY; Windsor, CO; Peabody, MA; White City, OR
30. Georgia-Pacific, Big Island, VA
31. IBM East Fishkill Facility, Hopewell Junction, NY
32. IBM Semiconductor Manufacturing Facility, Essex Junction, VT
33. Imation Corporation, Camarillo, CA
34. International Paper- Effluent Improvements, Jay, ME
35. International Paper- Emissions Monitoring, Jay, ME
36. Labs21, Nationwide
37. Lead Safe Boston, Boston, MA
38. Louisville and Jefferson Counties Metropolitan Sewer Districts, Louisville and Jefferson Counties, KY
39. Metropolitan Water Reclamation District of Greater Chicago, Chicago, IL
40. Naragansett Bay Commission POTW, Providence, RI
41. National Aeronautic Space Administration White Sands Test Facility, Las Cruces, NM
42. New Jersey Department of Environmental Protection Gold Track Program, State of New Jersey
43. Ortho-McNeil Pharmaceutical, Spring House, PA
44. Pennsylvania Department of Environmental Protection, State of Pennsylvania
45. Port of Houston Authority, Houston, TX
46. PPG Industries, Inc., Pittsburgh, PA
47. Progressive Auto Insurance Company, Nationwide
48. Steele County, Minnesota (XLC), Steele County, MN
49. United Egg Producers, Nationwide
50. USFilter Recovery Systems, Inc., Roseville, MN
51. U.S. Postal Service Denver, Denver, CO
52. Waste Management, Inc. Virginia Landfill Bioreactors Project, King George and Amelia Counties, VA
53. Yolo County Bioreactor, Yolo County, CA

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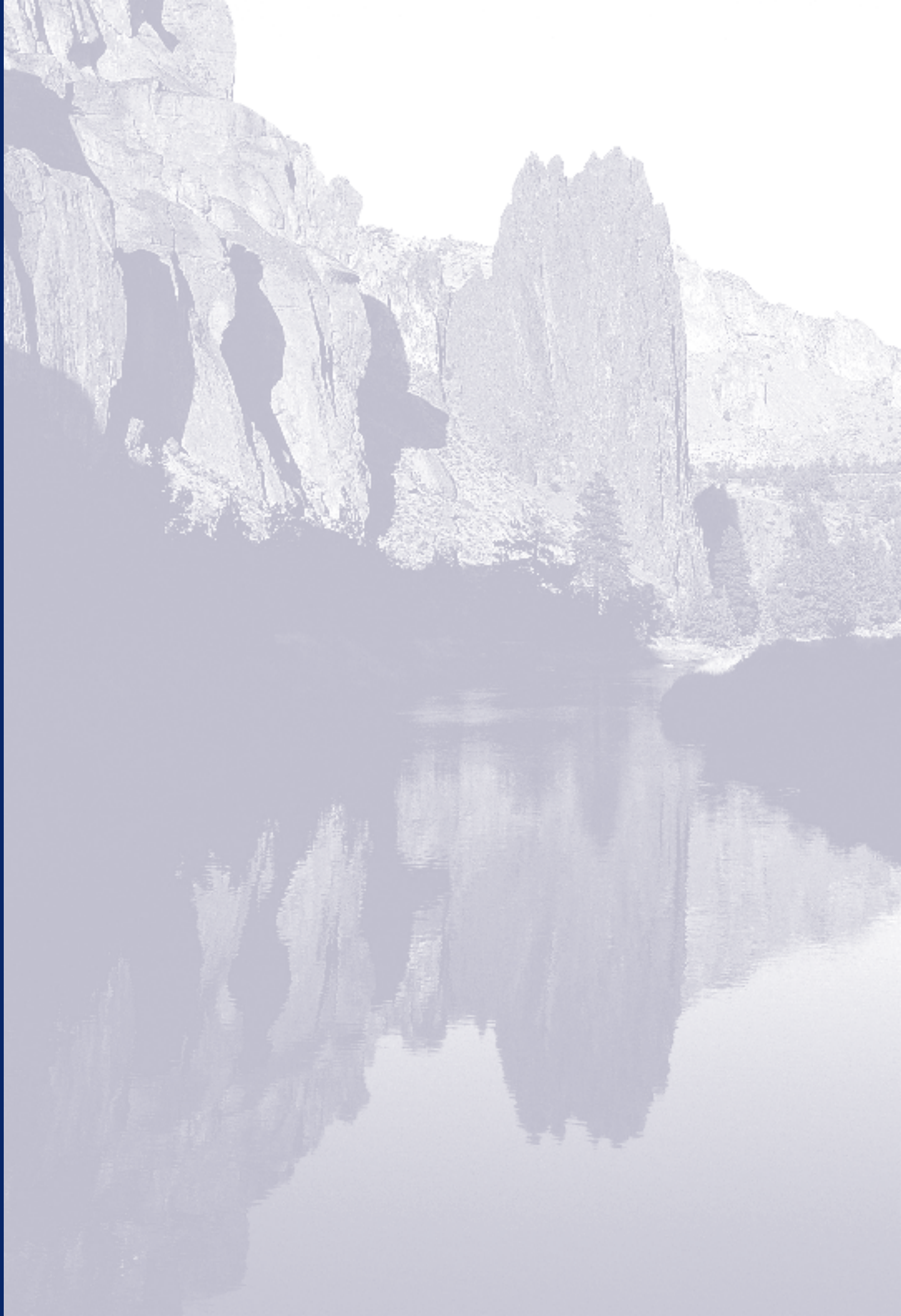
Volume 2: Directory of Project Experiments and Results

	Related Industry or Public Sector	Location	Relevant Statutes	Featured on page
In Implementation December 1999 or earlier (16)				
Andersen Corporation	wood windows manufacturing	Bayport, MN	CAA	11
Atlantic Steel Redevelopment	Brownfields redevelopment, former steel mill site	Atlanta, GA	CAA	15
Crompton Corporation Sistersville Facility (formerly Witco)	specialty chemical manufacturing	Sistersville, WV	RCRA	19
Department of Defense Elmendorf Air Force Base	Air Force base	Anchorage, AL	CAA	25
Department of Defense Vandenberg Air Force Base	Air Force base	Santa Barbara County, CA	CAA, RCRA, PPA	28
ExxonMobil Corporation	Superfund site redevelopment (former coke works site)	Fairmont, WV	CERCLA	33
HADCO Corporation	printed wiring board manufacturing	Owego, NY Derry, NH Hudson, NH	RCRA	36
Intel Corporation	semiconductor manufacturing	Chandler, AZ (Maricopa County)	CAA, Multimedia	40
Jack M. Berry Corporation	citrus juice processing (small business)	LaBelle, FL	Multimedia	46
Lucent Technologies	microelectronics manufacturing	Allentown, PA Reading, PA Orlando, FL	CAA, CWA, SDWA, RCRA	49
Massachusetts Department of Environmental Protection—Environmental Results Program	small business	Commonwealth of Massachusetts	Multimedia	51
Merck & Company, Inc.	pharmaceutical manufacturing	Elkton, VA	CAA	59
Molex Incorporated	electroplating facility	Lincoln, NE	RCRA	63

	Related Industry or Public Sector	Location	Relevant Statutes	Featured on page
In Implementation December 1999 or earlier (16) (Continued)				
New England Universities Laboratories	university laboratories	Boston College, University of Massachusetts-Boston, University of Vermont	RCRA	67
New York State Department of Environmental Conservation	public utilities	State of New York	RCRA	70
Weyerhaeuser Company	pulp and paper manufacturing	Oglethorpe, GA	CAA, CWA	72
Underway since December 1999 (32)				
Autoliv ASP, Inc.	automobile safety product manufacturer	Promontory, UT	RCRA	80
Buncombe County Landfill	solid waste management facility	Buncombe County, NC	RCRA	81
City of Albuquerque Publicly Owned Treatment Works	city industries and businesses	Albuquerque, NM	CWA	82
City of Columbus (XLC)	Division of Water	Columbus, OH	SDWA	83
City of Denton Publicly Owned Treatment Works	vehicle maintenance facilities, recycling centers, junkyards, salvage yards, construction sites	Denton, TX	CWA	84
City of Fort Worth	substandard facilities with asbestos-containing building materials	Fort Worth, TX	CAA	85
Clermont County Watershed Management Plan (XLC)	watershed management	Clermont County, OH	CWA	86
Department of Defense Naval Station Mayport	naval station	Jacksonville, FL	CWA	87
Department of Defense Puget Sound Naval Shipyard	naval shipyard, industrial facility	Bremerton, WA	CWA	89
Eastman Kodak Corporation	imaging systems and media manufacturer	Rochester, NY; Windsor, CO; Peabody, MA; and White City, OR	TSCA	91
Georgia-Pacific Corporation	pulp and paper mill	Big Island, VA	CAA	93
Imation Corporation	magnetic data storage cartridges manufacturing	Camarillo, CA	CAA	95

	Related Industry or Public Sector	Location	Relevant Statutes	Featured on page
Underway since December 1999 (32) (Continued)				
International Business Machines East Fishkill Facility	cement production	Hopewell Junction, NY	RCRA	96
International Business Machines Semiconductor Manufacturing Facility	semiconductor facility	Essex Junction, VT	RCRA	97
International Paper—Effluent Improvements	paper mill	Jay, ME	CWA	98
International Paper—Predictive Emissions Monitoring	paper mill	Jay, ME	CAA	99
Labs21	laboratory owners, operators, and designers	Nationwide	CWA, Multimedia	100
Lead Safe Boston	federally funded de-leading assistance program	Boston, MA	RCRA	101
Louisville and Jefferson County Metropolitan Sewer Districts	Chenoweth Run watershed	Louisville and Jefferson County, KY	CWA	102
Metropolitan Water Reclamation District of Greater Chicago	Chicago Publicly Owned Treatment Works	Chicago, IL	CWA	103
Narragansett Bay Commission Publicly Owned Treatment Works	treats domestic, commercial, and industrial wastewater	Providence, RI	CWA	104
National Aeronautics and Space Administration White Sands Test Facility	test facility	Las Cruces, NM	Multimedia	105
Ortho-McNeil Pharmaceutical	pharmaceutical research and development facility	Spring House, PA	RCRA	107
Pennsylvania Department of Environmental Protection	abandoned coal mines	State of Pennsylvania	CWA	108
PPG Industries Inc.	global supplier of coatings, fiberglass, glass, and chemicals	Pittsburgh, PA	TSCA	110
Progressive Auto Insurance Company	auto insurance	Nationwide	CAA	111
Steele County (XLC)	industrial facilities	Steele County, MN	CWA	112
United Egg Producers	farmer cooperative representing egg producers nationwide	Nationwide	CWA	114

	Related Industry or Public Sector	Location	Relevant Statutes	Featured on page
Underway since December 1999 (32) (Continued)				
United States Postal Service Denver	vehicle emissions (postal)	Denver, CO	CAA	116
USFilter Recovery Services, Inc.	commercial hazardous waste treatment and recovery facility	Roseville, MN	RCRA	118
Waste Management, Inc. Virginia Landfill Bioreactors Project	bioreactor landfills	King George and Amelia Counties, VA	RCRA	119
Yolo County	bioreactor landfill	Yolo County, CA	RCRA	121
Under Development As of October 2000 (5)				
Anne Arundel County Bioreactor	solid waste management facility	Severn, MD	RCRA	124
Chicago Regional Air Quality and Economic Development Strategy	development zones	Chicago, IL	CAA	125
Crompton Corporation TBT Project	manufacture tributyltin compounds used in the manufacturing of coatings for marine vessels	Greenwich, CT	CWA	126
New Jersey Department of Environmental Protection Gold Track Program	regulatory flexibility offered to regulatory community based on the level of environmental commitment and environmental performance	State of New Jersey	Statutes to be determined by media-specific addenda	127
Port of Houston Authority	private and public terminal port	Houston, TX	CWA	128