

Endangering Community Drinking Water

Leaking underground storage tanks (“USTs”) are one of the most serious threats to the quality of our nation’s groundwater. Fifty percent of the nation’s population, and 100 percent inh

Current Administration Fails to Protect Drinking Water Quality

Leaking underground storage tanks (“USTs”) are one of the most serious threats to our nation’s drinking water supplies. Despite recent cuts in public health and environmental funding, the federal government has \$2.4 billion in surplus funds in the UST program, which can only be spent on cleaning up contamination from USTs.

However, the current administration has requested only 3 percent of these dedicated surplus funds, despite a nationwide 22 percent decline in the pace of cleanups between 2003 and 2004. The federal government should protect public health by using surplus funds to help states across the nation clean up leaking USTs.

Cleanups Protect Public Health

Fifty percent of the nation’s population, including virtually 100 percent in rural areas, uses groundwater for drinking water. Leaking USTs threaten groundwater quality in 45 states. These tanks can hold toxins that quickly spreads through soil and water and that can cause cancer and harm developing children.

Congress created the UST program in 1984 to address pollution caused by USTs. In 1986, Congress created a federal UST fund to expedite cleanups and required owners and operators of USTs to demonstrate that they can clean up sites. A 1/10th of one cent fee on gas sales provides the fund with money. Congress also directed EPA to create regulations that all federally-regulated USTs had to meet by 1998.

Contamination Harms Communities

Leaking USTs can threaten community and individual drinking water supplies, contaminate houses and businesses with toxic vapors, pollute local waterways, and harm the environment.

Severe Spill Response in the Presence of Crises Across the Nation

Following years of progress in cleaning up leaking USTs, national cleanup figures have

St tes Be o^v N tion A er ge in C e n ps

D ngero s Che_ ic s Le fro_ ndergro nd Stor ge n s

Leaking underground

Contamination Threats to People

Leaking underground storage tanks (USTs) hold gasoline, diesel fuel,

Million People Drink From More than Six Groundwater Systems

Six and their Facilities Could Endanger Children and Other Vulnerable People

Contamination Endangers Communities Across the Country

One gallon of petroleum can contaminate one million gallons of groundwater.

One pin-prick sized hole in an underground storage tank can leak 400 gallons of fuel a year.

Gasoline-related compounds were detected in 10% of drinking water sources sampled across the nation.

More than 1,800 municipal water supplies are *known to be* contaminated with MTBE.

Twenty-seven states reported plumes of MTBE contamination thousands of feet in length.

Oil companies knew of MTBE's potential to contaminate groundwater as early as 1981.



Undercutting Protections

Officials have failed to ensure that 30% of all federally-regulated USTs, totaling more than 200,000 tanks, are properly operated and maintained.

EPA and state officials have failed to inspect all 76,000 closed tanks that do not meet current federal requirements, despite officials having found inactive tanks still pose a risk of contaminat

Protect Communities and Drinking Water

The federal government should undertake five essential actions to protect communities and their drinking water supplies from UST contamination. Without such action, the current slowdown in cleanups could grow more severe, resulting in an increased number of contaminated sites and reversing decades of progress since Congress created federal UST protections in 1984.

The federal government should increase funding, pollution prevention measures, efforts to make polluters pay to clean up their contamination, enforcement of minimum federal safeguards and the public's right to know when polluters contaminate the environment. Delaying such protections will increase threats to communities, drinking water

St tes B c og of C e n ps t Le ing ndergro nd Stor ge n s

R n	St te	C e n p B c og	of Pop Re ying on Gro nd ter s Drin ing ter	R n	St te	C e n p B c og	of Pop Re ying on Gro nd ter s Drin ing ter
1	FL	17,544	93	29	WY	1,132	59
2	CA	15,049	46	30	MT	1,085	53
3	MI	9,039	46	31	LA	1,015	61
4	IL	8,591	33	32	CO	998	

Percent $\frac{1}{2}$ ref Q $\frac{1}{2}$ g i $\frac{1}{2}$ $\frac{1}{2}$ ref g

Percent of S Sites

Percent of Sites Needed

National Average for Centers, percent of sites needed

Rank	State	Percent of Sites Needed	Percent of Sites Needed	Confirmed Reses	Number of Centers
47	TN	19%	90%	12,512	11,291
48	VA	20%	91%	10,181	9,271
49	ME	23%	94%	2,129	1,995
50	ND	24%	95%	811	768
50	MS	24%	95%	6,456	6,155
Total					

Top States with Lowest Percent of Sites Closed

Left Side					Right Side						
Rank	State	State's Not Average	Closed p	Confirmed Recess	Not Centers	Rank	State	State's Not Average	Closed p	Confirmed Recess	Not Centers

1

and Storage and Program Funding By Region

Outstanding Commitments	Region	State	Funding Deficit Millions	Total Approved Current Balance Millions	Outstanding Commitments Millions
\$170.00	25	MS	\$5.65	\$5.90	\$0.25
\$1,200	26	ME	\$5.98	\$5.98	\$0.00
\$4.43	27	MD	\$6.17	\$6.17	\$0.00
\$58	28	NH	\$6.23	\$9.14	\$2.91
\$20	29	ND	\$6.67	\$7.68	1.01 ¹
\$28.20	30	MN	\$7.60	\$19.60	\$12.00
\$5.45	31	AR	\$9.38	\$15.15	\$5.77
\$20	32	OK	\$10.14	\$10.70	\$0.56
\$15.83	33	LA	\$13.03	\$15.09	\$2.06
\$214	34	IL	\$14.20	\$22.00	\$7.80
\$9	35	NM	\$16.37	\$19.77	3.4 ^D

State Underground Storage Program Funding

Sources: ASTSWMO, 2004 State Financial Assurance Funds Sur

St te ndergro nd Stor ge n Progr F nding St

Major Karst Aquifers in the United States

Karst regions contain aquifers that can provide plentiful supplies of groundwater. However, many karst aquifers are also vulnerable to contamination because contamination can move rapidly through the ground and throughout the aquifer. Karst regions comprise 20 percent of our nation's land surface area and provide 40 percent of the nation's groundwater that is used for drinking water.

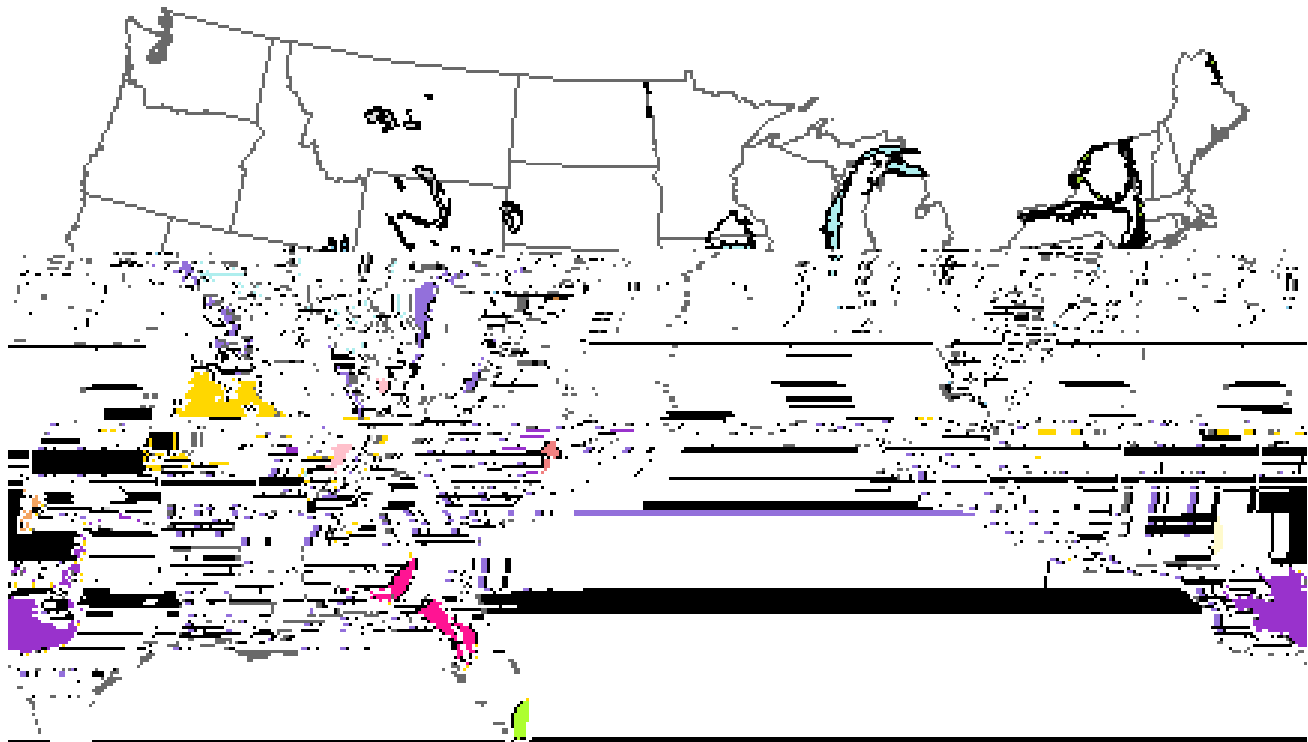


Figure 1

1	Appalachian Basin	2	Appalachian Eastern Basin
3	Central and Range Carbonate Plateau	4	Florida Aquifer
5	Florida Aquifer	6	Florida Aquifer
7	Florida Aquifer	8	Florida Aquifer
9	Florida Aquifer	10	Florida Aquifer
11	Florida Aquifer	12	Florida Aquifer
13	Florida Aquifer	14	Florida Aquifer
15	Florida Aquifer	16	Florida Aquifer
17	Florida Aquifer	18	Florida Aquifer
19	Florida Aquifer	20	Florida Aquifer
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29	Florida Aquifer	30	Florida Aquifer
31	Florida Aquifer	32	Florida Aquifer
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39	Florida Aquifer	40	Florida Aquifer
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91	Florida Aquifer	92	Florida Aquifer
93	Florida Aquifer	94	Florida Aquifer
95	Florida Aquifer	96	Florida Aquifer
97	Florida Aquifer	98	Florida Aquifer
99	Florida Aquifer	100	Florida Aquifer

Source: U.S. Geological Survey, *Karst* (Available at <http://water.usgs.gov/ogw/karst/>) (Last checked on April 8, 2005).

Biography for National Leaking Underground Storage Tank Report

The following citations describe the material used to produce the national report on the status of leaking underground storage tanks.

1. Agency for Toxic Substances and Disease Registry, *Toxicological Profiles* (various)
2. Association of State and Territorial Solid Waste Management Officials, *2003 State Financial Assurance Funds Survey Results* (2003) (Tables 1, 2, 3, and 5)
3. Association of State and Territorial Solid Waste Management Officials, *2004 State Financial Assurance Funds Survey Results* (2004) (Tables 1, 2, 3, and 5)
4. Audrey Grasso, Voicesnews.com, *EPA Considers Fine for Newton Oil Spill* (2005)
5. Beth Daley, Globe Staff, *Report Cites Trace Chemicals in Water* (Dec. 16, 2004)
6. City of Santa Monica, *Economic & Demographic Profile: Population & Race* (2005)
7. Congressional Research Service, *MTBE in Gasoline: Clean Air and Drinking Water Issues* 98-290 ENR (2004)
8. Dan Benson, Milwaukee Journal Sentinel, *Homeowners File Suit Against Two Firms* (Apr. 2, 2000)
9. David Danelski and Jennifer Bowles, *Troubled Waters Regulators Struggle to Deal with Fuel Leaks from an Inland Tank Farm* (Aug. 12, 2001)
10. Eric Fleichauer, The Decatur Daily News, *Parent Wonder If Girl's Leukemia Linked to Gasoline* (2005)
11. Enric Volante, Arizona Daily Star, *Leaking Fuel Tanks Foul Soil, Water under Our Feet* (Mar. 28, 2004)
12. Environmental Defense, *Scorecard.org* (2005) (various chemical profiles)
13. Environmental Protection Agency, 40 C.F.R. §§ 141.2 (2004)
14. Environmental Protection Agency, *Cleaning Up the Nation's Waste Sites: Markets and Technology Trends*, EPA 542-R-04-015 (2004)
15. Environmental Protection Agency, Office of Inspector General, *Impact of EPA and State Drinking Water Capacity Development Efforts Uncertain*, Rpt. No. 2003-P-00018 (2003)
16. Environmental Protection Agency, *FY 1996-2004 Semi-Annual End-of-the-Year Reports* (1996-2004)
17. Environmental Protection Agency, *National Water Quality Inventory 2000*, EPA-841-R-02-001 (2000)

18. Environmental Protection Agency, *Opportunit*

35. Lisa Kozleski, *Gas Additive MTBE Found in More Wells, All are Within 1,400 Feet of an Exxon Station on Richland Township-Quakertown Border* (May 17, 2001)
36. Lisa Kozleski, *Two More Wells Tainted by MTBE Milford Twp. Spill Was Found in December as Owner Put in New Tanks* (Feb. 8, 2001)
37. Martha Bisacchi, Post-Tribune, *New Well Plan May Solve Contamination at School, Morocco's MtBE-Tainted Water Would be Filtered, New Well Dug if Approved* (Dec. 8, 2004)
38. Martha Bisacchi, Post-Tribune, *School Water Unsafe To Drink; The U.S. EPA Told Lincoln Elementary Students And Staff The Water Is Contaminated With A Gasoline Additive* (Apr. 4, 2002)
39. Mary Bender, The Press-Enterprise, Eastvale: *The District Will Have to Ensure Toxic Remnants From Dairies Don't Harm Students* (2005)
40. Melissa Widner, The Rensselaer Republican, *MTBE Found in Four DeMotte Business Wells* (2005)
41. Meredith Goad, Portland Press Herald, *One Fouled Well Sets Off Search; The DEP's Hunt for the Limits of Contamination Spreads Ever Outward in Tenants Harbor* (Jul. 11, 1004)
42. Michigan Department of Environmental Quality, *RPD Operational Memo. #2* (2004)
43. New England Interstate Water Pollution Control Commission, 44 L.U.S.T.LINE (July 2003)
44. New England Interstate Water Pollution Control Commission, 45 L.U.S.T.LINE (Oct. 2003)
45. New England Interstate Water Pollution Control Commission, 47 L.U.S.T.LINE (June 2004)
46. New England Interstate Water Pollution Control Commission, *Summary Report on a Survey of State Experiences with MtBE and Other Oxygenate Contamination at LUST Sites* (2003)
47. New England Interstate Water Pollution Control Commission, *The Complied Results of the Survey of State Experiences with MtBE and Other Oxygenate Contamination at LUST Sites* (2003)
48. Pat Brennan, Orange County Register, *Prosecutors Allege MTBE Conspiracy: Reports Showed Problems, but Oil Distributors Allegedly Looked the Other Way. Arco Denies Allegations* (Oct. 20, 2000)
49. Rebecca Tsaros Dickson, Concord Monitor, *Bill Would Ban MtBE in State; Plan Joins Ban, Gas Reformulation Rules* (Mar. 27, 2004)
50. Richard Cockle, The Oregonian, *DEQ Will Clean Up Leaking Fuel Tanks* (Oct. 12, 2000)
51. Rob O'Dell, North County Times, *Buried Fuel Tanks Raise a Host of Concerns in VUSD* (2005)
52. Robert Simons, *Settlement of an Oil Pipeline Leak with Contaminated Residential Property: A Case Study* 24 Real Estate Issues 46 (1999) (See also, Robert Simons, *et al.*, *The Effect of Leaking Underground Storage Tanks on Residential Property Value*, 14 J. Real Estate Res. 129 (1999) and Robert Simons, *et al.*, *The Effects of LUSTS from Gas Stations on Residential and Commercial Property that is Actually Contaminated*, The Appraisal J. (April, 1999)

53. Ted Shelsby, The Sun, *Hartford Considers Freeze on New Gas Stations; Gasoline Additive MTBE Found in Wells Near Exxon* (July 11, 2004)
54. Ted Shelsby, The Sun, *Traces of MTBE Found at More Harford Sites* (Oct. 6, 2004)
55. Terry Hillig, St. Louis Post-Dispatch, *City Wants Oil Companies to P*

71. United States Geological Survey, *A National Survey of Methyl Tert-Butyl Ether and other Volatile Organic Compounds in Drinking-Water Sources: Results of the Random Survey*, Water-Resources Investigations Reports 02-4079 (2003)
72. United States Geological Survey, *MTBE and Other Volatile Organic Compounds-New Finding and Implication on the Quality of Source Waters Used for Drinking-Water Supplies*, FS-105-01 (2001)
73. United States Geological Survey, *Natural and Human Factors Affecting Shallow Water Quality in Surficial Aquifers in the Connecticut, Housatonic, and Thames River Basins*, Water-Resources Report 98-4042 (1998)
74. United States Geological Survey, *Occurrence and Distribution of Methyl tert-Butyl Ether and Other Volatile Organic Compounds in Drinking Water in the Northeast and Mid-Atlantic Regions of the United States, 1993-98*, Water-Resources Investigation Report 00-4228 (2001)
75. United States Geological Survey, *VOCs in Shallow Groundwater in New Residential/Commercial Areas of the United States*, 38 Environ. Sci. Technol. 5327 (2004)
76. William Carlsen, The San Diego Tribune, *Cover-up Charged on Gas Additive Peril, Court Papers say U.S. Knew of Water-Supply Threat 15 Years Ago* (Aug. 20, 2001)
77. William Speed Weed, *Gas Leak*, 90 Current Science 6 (2005)

ARIZONA

1. Arizona Department of Environmental Quality, *Draft Arizona's Integrated 305(b) and 303(d) Listing Report* (2004)
2. Arizona Department of Environmental Quality, *Impacts to Groundwater Resources in Arizona From Leaking Underground Storage Tanks (LUSTS)* (2003)
3. Arizona Office of the Auditor General, *Performance Audit of the Department of Environmental Quality: Waste Programs Division* (2004)
4. United States Geological Survey, *Water-Use Trends in the Desert Southwest—1950-2000* (2004)

CALIFORNIA

1. Department of Water Resources, *California's Groundwater-Bulletin 118, Update 2003* (2003)
2. Department of Water Resources, *Water Facts: Numbering Water Wells in California* (2000)
3. National 2002-01-12 12:59:00 (W) 10.941 0 (e) Tj

List .22 0 Nat (1) Tj 2002-01-12 12:59:00 (W) 10.941 0 (e) Tj 3.36645 0 43.21
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3.36645 0n

2. Department of Natural Resources and Environmental Control, *First Report to the Governor and the General Assembly Regarding Progress of the Delaware Source Water Assessment and Protection Program* (2004)
3. Department of Natural Resources and Environmental Control and Delaware Health and Social Services, *The Impact of Known and Suspected Contaminant Sources on Select Public Drinking Water Supplies in Delaware* (2002)

FLOR DA

1. Department of Environmental Protection, *2000 Florida Water Quality Assessment*

EN C Y
1.

Kentucky Environmental and Public Protection Cabinet, *2004 Kentucky Report to Congress on Water Quality* (2004)

MARYLAND

1. Maryland Department of Natural Resources, *2000 Maryland Section 305(b) Water Quality Report* (2000)

MASSACHUSETTS

1. Massachusetts Water Resources Authority, *Massachusetts Water Resources Authority*

NOR H

2. Tennessee Department of Environment and Conservation, The Tennessee Petroleum Underground Storage Tank Advisory Committee on The Petroleum Underground Storage Tank Fund (2004

ES **RG N A**

1. National Ground Water Association, *Ground Water's Role in West Virginia's Economic Vitality* (2004)
2. State of West Virginia Offices of the Insurance Commissioner, *May 2004 West Virginia Informational Letter No. 147* (2004)
3. West Virginia Department of Environmental Protection, *Groundwater Programs and Activities Biennial Report to the West Virginia 2004 Legislature* (2004)

SCONS N

1. Jim Krohelski, United States Geological Survey, *Uncovering the Quality and Quantity Issues of Wisconsin's Buried Treasure* (2001)
2. United States Geological Survey, *Water Use in Wisconsin, 2000*, Open File Report 02-356 (2000)
3. Wisconsin Department of Natural Resources, *2004 Groundwater Coordinating Council Report to the Legislature* (2004)
4. Wisconsin Department of Natural Resources, *Wisconsin Water Quality Report to Congress 2002* (2002)
5. Wisconsin Department of Natural Resources, *Wisconsin Water Quality Report to Congress 2004* (2004)