

Union Carbide Corporation's Toxic Chemical Spills



*NOTE: "Spills" are accidental releases.
"Routine" (non-accidental) releases of toxic chemicals
are shown in the [U.S. EPA Toxic Release Inventory](#)*

1950s-1960s. A third of the world's mercury was brought to the U.S. nuclear facilities at Oak Ridge, Tennessee, operated by Union Carbide, for the separation of lithium-6. Some 2.4 million pounds of mercury are unaccounted for; while most is probable underneath buildings, 475,000 pounds leaked into a creek, and 30,000 pounds are believed to have leaked into the air. In 1955, almost half of workers tested had mercury in their urine at levels above those considered safe.

1980 December. The Environmental Quality Board fined Union Carbide \$550,000 for air pollution violations dating back to 1972 at its Yabucoa, Puerto Rico graphite electrode plant.

1981. Union Carbide fined \$50,000 for spilling 25,600 gallons of propylene oxide into the Kanawha River in 1978-1980.

1982 July. Hydrogen chloride leaked from a tank car at Union Carbide's Massey yard at South Charleston, West Virginia; several hundred residents were evacuated, a few were treated at the hospital.

1985 February. Union Carbide notified the U.S. EPA that since 1980, 190 chemical leaks had occurred at its Institute, West Virginia plant, including 61 leaks of methyl isocyanate (MIC), 107 leaks of phosgene, and 22 leaks of both.

1985 March. 5,700 pounds of acetone and mesityl oxide leaked from a Union Carbide distillation column at its plant in South Charleston, West Virginia; dozens of area residents became ill after breathing the fumes.

1985 March. Butyl aldehyde and methyl chloride leaked from tank cars at Union Carbide's Massey yard in South Charleston, West Virginia.

1985 May. Propionic acid spilled from a tank truck near Winfield, West Virginia.

1985 August. Hydrochloric acid leak at South Charleston, West Virginia.

1985 August 13. Butynol and u-con brake fluids were spilled at South Charleston, West Virginia.

1985 September. Dimethyl disulfide leak at the South Charleston, West Virginia Larvin pesticide unit.

1985 September. Monomethyl amine spilled at South Charleston, West Virginia.

1986 March. Diethylene glycol and sulfur dichloride leaks at Institute, West Virginia.

1986 April. U.S. OSHA, after a September 1985 inspection of five of 18 plant units at Institute, West Virginia, alleged 221 violations of 55 health and safety laws, and proposed \$1.4 million in fines. OSHA classified 72 of the 221 violations "serious," where there is substantial probability of death or substantial physical harm. OSHA had earlier given the Institute plant a "clean bill of health" after Union Carbide spent \$5 million in safety repairs after the disaster at Bhopal.

1986 May. Butadiene leak at Institute, West Virginia.

1987 January 14. Ethyl acrylate spilled into the lower Mississippi River. U.S. EPA ERNS database, Aug. 16, 1994, record number MP87000371.

1987 January 26. Vinyl chloride VCM spilled at Texas City, Texas plant. U.S. EPA ERNS database, Aug. 16, 1994, record number F87-0723.

1987 January 27. Ethylene glycol spilled into Kanawha River at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV87133."

1987 March 10. Isophorone spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV87182.

1987 April 17. PCBs leaked from transformers at Columbia, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 04376.

1987 April 21. Ethylhexanol spilled into Galveston Bay at Union Carbide dock 66. U.S. EPA ERNS database, Aug. 16, 1994, record number MP87002771.

1987 June 2. Ethylene oxide spilled at San Mateo, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 87-2983.

1987 June 2. Diisobutyl ketone spilled into Galveston Bay. U.S. EPA ERNS database, Aug. 16, 1994, record number MP87003756.

1987 August 15. Benzene spilled in Texas waters. U.S. EPA ERNS database, Aug. 16, 1994, record number MP87005931.

1987 August 22. Sisterville, West Virginia plant shut down after holding pond incident. U.S. EPA ERNS database, Aug. 16, 1994, record number 10767.

1987 October 31. Chlorine chemicals spilled along railroad route in Pennsylvania. U.S. EPA ERNS database, Aug. 16, 1994, record number 13965.

1987 November 24. Ethyl acrylate spilled at Franklin, New Jersey. U.S. EPA ERNS database, Aug. 16, 1994, record number 88-0255.

1988. Vinyl metholethen and maleicknhydride spilled into Fall CReek at Danville City, Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number VA88371.

1988 April 15. Ethylene oxide spilled at Knoxville, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 88-1092.

1988 May 17. Silane spilled at Sacramento, California. U.S. EPA ERNS database, Aug. 16, 1994, record

number 88-1696.

1988 May 18. Lubricating oil spilled into Galveston Bay. U.S. EPA ERNS database, Aug. 16, 1994, record number MP88003122.

1988 July 5. Lubricating oil spilled into Galveston Bay. U.S. EPA ERNS database, Aug. 16, 1994, record number MP88004773.

1988 August 23. Lubricating oil spilled into Galveston Bay. U.S. EPA ERNS database, Aug. 16, 1994, record number MP88005751.

1988 September 2. Chloromethane spilled on Highway 90 west of Dayton, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 12179.

1988 September 5. Glycol spilled into Neshaminy Creek at Hadfield, Pennsylvania. U.S. EPA ERNS database, Aug. 16, 1994, record number PA881052.

1988 October 17. Propylene spilled at Texas City facility. U.S. EPA ERNS database, Aug. 16, 1994, record number F89-0080.

1988 December 16. Ethylene oxide spilled at Seadrift, Texas facility. U.S. EPA ERNS database, Aug. 16, 1994, record number F89-0388.

1989 January 19. Ethylene oxide, propylene oxide, and diethylenetriamine spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV89100.

1989 January 23. Ethylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV89104.

1989 February 9. Texas City, Texas olefins and coatings facility spilled 100,000 gallons of butanol.

1989 February 23. PCB incident at New River near Ivanhoe, Virginia, where transformers with PCBs were abandoned when plant was shut down in the 1960s. U.S. EPA ERNS database, Aug. 16, 1994, record number 02685.

1989 February 24. Isophorone spilled into Galveston Bay at Union Carbide dock 66. U.S. EPA ERNS database, Aug. 16, 1994, record number MP89001442.

1989 February 27. Acrolein spilled into Mississippi River in Louisiana when pipe ruptured. U.S. EPA ERNS database, Aug. 16, 1994, record number MP89002170.

1989 March 3. Ethylene oxide spilled into San Antonio Bay at the Seadrift, Texas plant. U.S. EPA ERNS database, Aug. 16, 1994, record number F89-0952.

1989 June 7. 12,121 pounds of acetone released during "normal operations" at Institute, West Virginia plant. U.S. EPA ERNS database, Aug. 16, 1994, record number WV89281.

1989 June 12. Chlorine gas released at West Columbia, South Carolina. U.S. EPA ERNS database, Aug. 16, 1994, record number 09373.

1989 October 12. Methyl butyl hydrate spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F90-0076.

1989 October 18. Compressor oil spilled at Wilmington, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 89-4199.

1989 November 1. Vinyl acetate spilled at Torrance, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 89-4339.

1989 December 20. Ethyl hexanol spilled into Texas City Channel at Union Carbide dock 66 at Galveston, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 22792.

1989 December 25. Alcohol spill into Mississippi River at Hickman, Kentucky when barges grounded on a dike. U.S. EPA ERNS database, Aug. 16, 1994, record number 12269WR 1005.

1990 January 8. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 05008 and F90-0959.

1990 January 30. Ethylene oxide spilled from rail car at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 06278.

1990 February. Union Carbide's Institute, West Virginia facility leaked methyl isocyanate (MIC) gas, injuring seven workers, and muriatic acid, after which 15,000 residents were ordered to remain indoors.

1990 February 6. Dimethyl ethylamine spilled at East Chicago, Indiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 07431.

1990 February 7. Smoke stack incident at Anmoore, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 07400.

1990 February 18. Isobutyl acrylate spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 08860.

1990 February 18. Lubricating oil spilled at Wilmington, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 08941 and 09592.

1990 March 2. Styrene monomer spilled at Catano, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 90-629.

1990 March 8. Ethylene glycol spilled into Texas City, Texas turning basin. U.S. EPA ERNS database, Aug. 16, 1994, record number 11402.

1990 March 11. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 11784.

1990 March 11. Sulfuric acid spilled at Wilmington, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 11859.

1990 March 17. Acetone spilled into Galveston Bay at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 12976.

1990 March 20. 257 pounds of benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 13368.

1990 March 20. Vinyl chloride spilled at Garland, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 13370 and 13502.

1990 March 21. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 13568.

1990 March 23. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 14011.

1990 March 27. Liquid hydrogen tank truck accident on Interstate 65 near Nashville. U.S. EPA ERNS database, Aug. 16, 1994, record number 14574.

1990 March 28. Benzene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 14679 and 14800.

1990 March 28. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 14824.

1990 March 29. 36,722 pounds of propylene, 10,000 pounds of acetylene, and 497 pounds of ethylene oxide spilled after power outage caused a plant shutdown at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 14865.

1990 March 29. Ethyl acrylate spilled from tank truck on Interstate 95 near Aberdeen, Maryland. U.S. EPA ERNS database, Aug. 16, 1994, record number 15021.

1990 March 30. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 15140.

1990 April 4. 4,500 pounds of naphtha spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 15715.

1990 April 5. 747 pounds of isopropyl ether spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 15954.

1990 April 9. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 16581.

1990 April 17. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 17643.

1990 April 24. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 18751.

1990 April 25. Cellusol acetate spilled at Torrance, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 90-6608.

1990 May 8. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number

21060.

1990 May 21. Isopropyl alcohol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 23012.

1990 June 10. N-butyl alcohol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 26139.

1990 June 10. 2,268 pounds of anhydrous ammonia spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 26151.

1990 June 10. Vinyl chloride spilled at Tucker, Georgia. U.S. EPA ERNS database, Aug. 16, 1994, record number 26326.

1990 June 12. Hydraulic oil spilled into Gulf of Mexico at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 26505.

1990 June 15. Phenolic tars spilled at Marietta, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 27379.

1990 June 18. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 27327.

1990 June 26. Oil spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 28409.

1990 June 28. PCBs spilled at Indianapolis. U.S. EPA ERNS database, Aug. 16, 1994, record number 28918.

1990 July 3. Ethylene oxide spilled at Greenville, South Carolina. U.S. EPA ERNS database, Aug. 16, 1994, record number 29338.

1990 July 17. Oil spilled into Ryans Creek at an abandoned trucking site near Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 31828.

1990 July 19. "Black tar-like material" spilled at Marietta, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 31652.

1990 July 22. 3,185 pounds of isopropyl ether and acrylic acid spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 31992.

1990 July 25. Anhydrous ammonia spilled at Lakewood, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 32486.

1990 July 25. Anhydrous ammonia spilled at Cleveland, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 32492.

1990 July 25. 800 pounds of film developing solvent was spilled at North Hollywood, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 90-9121.

1990 July 26. 2,800 pounds of naphtha spilled from barge into Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 32810.

1990 August. The Mexican environmental agency SEDUE took action against Union Carbide's Kemet subsidiary for illegally dumping hazardous waste from the Parqu Industrial de Norte maquiladora at Matamoros, Mexico, near Brownsville, Texas.

1990 August 5. 522 pounds of benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 34148.

1990 August 7. Hydrogen chloride spilled at Keasby, New Jersey. U.S. EPA ERNS database, Aug. 16, 1994, record number 34401 and 90-1290..

1990 August 13. The unknown contents of a storage tank, which "smelled like it was contaminated with trichloromethane", were pumped into the city sewer at Indianapolis. U.S. EPA ERNS database, Aug. 16, 1994, record number 35280.

1990 August 15. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 35467.

1990 August 18. 1,070 gallons of isobutyl acetate were spilled into an industrial ship canal at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 35985.

1990 August 25. 552 pounds of ethylene oxide were spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 36965.

1990 August 29. Diesel oil spilled into barge canal at Penuelas, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 37515.

1990 September 1. Methamidophos spilled from an airplane near Lind, Washington. U.S. EPA ERNS database, Aug. 16, 1994, record number 40113.

1990 September 19. Lubricating oil was spilled into the Black River near Lorain, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 39923.

1990 September 20. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 40078.

1990 September 28. 73,551 gallons of "condensate" was spilled at a tank farm on Guayanilla Bay near Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 42118.

1990 October 2. Sulfide spilled into Guayanilla Bay at Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0193.

1990 October 5. 1,100 pounds of propylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 42384.

1990 October 5. Benzene spilled in two incidents at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 42390 and 42474.

1990 October 5. 3,000 cubic feet of compressed hydrogen spilled at South San Francisco. U.S. EPA

ERNS database, Aug. 16, 1994, record number 91-0072.

1990 October 9. Benzene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 42830.

1990 October 11. "B residues" spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 43105.

1990 October 19. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 44294.

1990 October 31. Propionic acid spilled from barge into Galveston Bay at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 45840.

1990 November 3. 500 pounds of 2-methylbutylaldehyde at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 46210.

1990 November 6. Xylene spilled at Montebello, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0773.

1990 November 6. Zinc spilled into Guayanilla Bay at Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0230.

1990 November 15. Dichloroethyl ether spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 47836.

1990 November 16. Kerosene spilled into Guayanilla Bay near Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 47869.

1990 November 16. 700 pounds of allyl alcohol spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 47950.

1990 November 16. Oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 77736.

1990 November 16. Glycol ether spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 63502.

1990 November 21. Diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58686.

1990 November 21. Ethane, ethylene, and methane gases released at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 48542.

1990 November 23. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58688.

1990 November 24. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 48699.

1990 November 26. PCBS spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 48889.

1990 November 28. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 49179.

1990 December 1. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58688.

1990 December 4. Ammonium nitrate and ammonium nitrite spilled into Uyaria Bay at Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0319 and 91-0364.

1990 December 4. Chloroform in excess of NPDES permit released into Euayanilla Bay at Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0364.

1990 December 15. Ethylene oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 51154.

1990 December 18. Diethanolamine spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 59717.1

1990 December 19. Butanol spilled at Bound Brook, New Jersey. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-0256.

1990 December 22. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 122534.

1990 December 22. Mineral oil spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 52202.

1990 December 24. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 52344.

1990 December 25. Glycol ether spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 63500.

1990 December 26. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 52448.

1990 December 27. Ethylene glycol spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 59746.

1990 December 28. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 52834.

1990 December 30. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 53045.

1990 December 31. Ethylene oxide spill at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 53165.

1991 January. U.S. EPA issued a complaint against McGhan Nusil (which UCC&P acquired in March 1991), alleging that McGhan had violated the Toxic Substances Control Act by manufacturing TSCA inventory chemicals without notifying EPA; the EPA proposed a penalty of \$384,000.

1991 January 1. Butadiene spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 63497.

1991 January 14. Isopropyl alcohol spilled at Torrance, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-1896.

1991 January 17. Butadiene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58722.

1991 January 22. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 56034.

1991 January 24. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 56398.

1991 January 27. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 56739.

1991 February 1. Glycol ethers spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 59719 and 60155.

1991 February 9. Isopropyl alcohol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58777.

1991 February 9. Isobutyl acetate spilled into containment dike at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58805.

1991 February 10. Benzene spilled into Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 58880.

1991 February 11. Monoethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 58950.

1991 February 20. Vinyl chloride, acetone, and vinyl acetate spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 60520.

1991 February 21. Monoethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 60674.

1991 February 24. Storage tank explosion at Kingman, Arizona airport. U.S. EPA ERNS database, Aug. 16, 1994, record number 60956.

1991 February 25. Ethylene glycol spill at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 61052.

1991 March 3. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record

number61918.

1991 March 9. 4,400 pounds of tetrahydrofuran spilled into Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 62817 and F91-1485.

1991 March 12. An explosion at Union Carbide's No. 1 ethylene oxide and derivative production unit Seadrift plant near Port Lavaca, Texas killed a contract worker and injured 26 others. The plant shutdown cost Union Carbide \$50 million in net income. In September, the U.S. OSHA proposed a fine of \$2,803,500 for 112 willful violations of health and safety regulations.

1991 March 13. 15,000 pounds of glycol ethers spilled into a sewer at Texas City, Texas when a vent valve was left open. U.S. EPA ERNS database, Aug. 16, 1994, record number 63289.

1991 March 15. Oil and ammonia buried near Allegheny River at West Kittanning, Pennsylvania. U.S. EPA ERNS database, Aug. 16, 1994, record number PA91568.

1991 March 24. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 64934.

1991 March 25. Ethylene glycol spilled at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 65048.

1991 March 27. Dowtherm coolant spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 65381.

1991 April 3. Ethylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 66403.

1991 April 4. Ethylene oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 66600.

1991 April 9. Propylene oxide spilled at Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 67319.

1991 April 13. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 67866.

1991 April 14. Butadiene and butylene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 67986.

1991 April 16. Oil spilled into back channel of the Kanawah River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record 68227.

1991 April 21. Benzene, butadiene, and butylene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 68846 and 68890.

1991 April 24. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 69302.

1991 April 25. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 69472 and 69548.

1991 May 7. Benzene and propylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 71043.

1991 May 10. Sulfuric acid spilled at Lorain, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 71428.

1991 May 10. Acetylene, ethylene, and ethane spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 71551.

1991 May 17. Diesel spill on Interstate 5 at Dittman, California. U.S. EPA ERNS database, Aug. 16, 1994, record number 91-4164.

1991 May 22. 2,000 pounds of diisopropylamine spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 73088.

1991 May 23. Glycol ether spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 73090.

1991 May 24. 380,000 gallons of chloroform spilled into Guayanilla Bay at Ponce, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 73245.

1991 May 30. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 73886.

1991 May 31. Butadiene spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 73862.

1991 June 5. Ethanol 2-ethoxy acetate spilled into back channel of the Kanawha River at South Charleston. U.S. EPA ERNS database, Aug. 16, 1994, record number 74503.

1991 June 7. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 74791.

1991 June 7. Isobutane, butadiene, and "miscellaneous hydrocarbons" spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 74852 and 77267.

1991 June 12. Isopropyl alcohol spill at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 75354.

1991 June 12. Ethylene spill at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 75307.

1991 June 16. Methyl alcohol and acrylonitrile spilled from sewer system after heavy rain at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 75789 and 75892.

1991 June 17. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 75845.

1991 June 17. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record

number 75888.

1991 June 18. Propylene oxide spilled after barge fire at Baton Rouge, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 75971.

1991 June 20. Benzene and n-pentane spilled after pipeline was punctured by a backhoe at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 76393.

1991 June 21. Methoxytriglycol spilled at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 76778.

1991 June 24. 3,400 pounds of sulfuric acid spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 76632.

1991 June 26. 4,950 pounds of ethanol spilled into sewer and air at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 77043.

1991 June 27. Anhydrous ammonia spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 77193.

1991 July 3. Acetic acid spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 77861.

1991 July 4. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 78010.

1991 July 10. Diesel spilled at Kansas City, Missouri. U.S. EPA ERNS database, Aug. 16, 1994, record number 78822.

1991 July 11. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 79061.

1991 July 12. Butylcellosolve and butylcarbotol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 79188.

1991 July 12. "Organic carbons" spilled into the Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 79203.

1991 July 14. Benzene and naphthalene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 79372.

1991 July 15. Carbitol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 79396.

1991 July 18. Propionaldehyde spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 80036.

1991 July 23. Propionaldehyde spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 80524.

1991 July 24. C dripoline crude spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 80775.

1991 July 27. Vinyltrichlorosilane spilled from a corroded pipe at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 81250.

1991 August 3. Diethylene glycol and monoethyl ether spilled from a corroded flowline at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 82315.

1991 August 9, 11, and 13. Naphthalene released in several incidents at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 83191 and 83344 and 83848.

1991 August 13. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 83564.

1991 August 14. Crude oil spilled from corroded storage tank at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 83872.

1991 August 14. 700 pounds of ethylene glycol spilled at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 83886.

1991 August 18. Ethane spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 84320.

1991 August 19. Release of "unknown material" from furnaces at Anmoore, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 84521.

1991 August 21. Ethylene glycol spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 84797.

1991 August 21. Diethylamine spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 84890.

1991 August 26. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 85409.

1991 August 28. Ethylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 85971.

1991 August 29. Naptha spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 86122.

1991 September 2. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 86609.

1991 September 2. Ethylene oxide and acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 86654 and 86657..

1991 September 3. 588 pounds of diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 866660.

1991 September 4. Dowtherm coolant spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 86980.

1991 September 5. Benzene, hexane, and isoprene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 87171 and number 87203.

1991 September 7. 520 pounds of polycyclics spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 87345.

1991 September 8. 4,000 gallons of petroleum pitch spilled into stream at Anmoore, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 87357.

1991 September 9. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 87476.

1991 September 9. Dowtherm coolant spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 87561.

1991 September 9. Oil spilled at Anmoore, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 87533.

1991 September 13. Chloroform spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93059.

1991 September 21. Dimethylformamide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93057.

1991 September 28. Butyl carbitol spilled at R+Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 90185.

1991 September 28. Methyl glycol ether, methyl carbitol, and methyl cellosolve spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 90194 and 90213.

1991 October 4. Dowtherm coolant spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 90968.

1991 October 4. 500 pounds of ethoxy triglycol spilled at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 91039.

1991 October 6. Benzene and naphthalene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 91201.

1991 October 7. 1,600 pounds of butyl cellosolve spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 91222.

1991 October 7. Proprionaldehyde spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 91360.

1991 October 10. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 91846.

1991 October 11. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 91919.

1991 October 14. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 92252.

1991 October 15. Diesel and other oils spilled into sewer leading to the Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 92300.

1991 October 17. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 92520.

1991 October 18. Butyl cellosolve spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 92987.

1991 October 23. 1,360 pounds of ethylene glycol spilled into Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 93421.

1991 October 28. Ethyl alcohol, ethyl acetate, and methyl isobutyl ketone spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 94967.

1991 October 31. Ethyl acetate and 31,952 pounds of dichlorodifluoromethane spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 94495 and 95004.

1991 November. U.S. EPA issued an enforcement order to eleven companies, including Union Carbide, for the clean-up of the Middlefield-Ellis-Whisman groundwater contamination site in Mountain View-San Jose, California.

1991 November 2. 1,795 pounds of methane and hydrogen spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 94789.

1991 November 5. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 95039.

1991 November 6. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 95256.

1991 November 7. "Wastewater" and "various organics" spilled when a "pollution abatement" tank overflowed at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 95527.

1991 November 10. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 95726.

1991 November 10 and 20. "Asphalt residue" washed into Sugar Camp Run Creek at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 95759 and 96982.

1991 November 15. Liquid nitrogen spilled at Greenville, Wisconsin. U.S. EPA ERNS database, Aug. 16, 1994, record number 96319.

1991 November 16. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record

number 96537.

1991 November 20. Solvents spilled at Hatfield, Pennsylvania. U.S. EPA ERNS database, Aug. 16, 1994, record number 96900.

1991 November 24. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 97360.

1991 November 25. 2,800 pounds of toluene spilled into wastewater outfall at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 97593.

1991 November 27. 1,023 pounds of ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 97664.

1991 November 29. Methane spilled from corroded pipeline at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 97855.

1991 November 29. "Smokestack failure" at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 97843.

1991 December. Union Carbide and Rhone-Poulenc filed a consent decree for violations of the Clean Water Act at their Institute, West Virginia facility. They agreed to a penalty of \$425,000 (\$188,398 from Union Carbide, \$236,602 from Rhone-Poulenc).

1991 December. UCC&P "voluntarily disclosed" "certain potential violations" of the Toxic Substances Control Act, which could result in penalties likely to exceed \$100,000.

1991 December 2 and 4. Ethylene oxide and ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 98057 and 98308.

1991 December 2. Furnace gas spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 98074.

1991 December 5. 4,900 pounds of rhodium catalyst solution spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 98715.

1991 December 6. 7,000 pounds of methyl isobutyl ketone spilled after storage tank overflowed at North Charleston, West Virginia bulk terminal. U.S. EPA ERNS database, Aug. 16, 1994, record number 98722.

1991 December 9. Diethanolamine spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 99069.

1991 December 10. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 99183.

1991 December 13. Ethylene glycol spilled at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 99678.

1991 December 16. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 99890.

1991 December 17. Butadiene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 100065.

1991 December 31. Chemical tank explosion killed an employee at South Charleston, West Virginia plant. An asbestos contractor reported the loss of asbestos in the explosion. Union Carbide was subsequently fined \$151,000 for 23 health and safety violations.

1992. The National Institutes for Chemical Studies (NICS) released five-year study of cancer rates in the Kanawha Valley, West Virginia; the study was funded by Union Carbide and other chemical companies, the U.S. EPA, and environmental groups. The study showed a link between children's health and their proximity to chemical plants emitting volatile organic compounds. UC and other companies challenges the report's findings.

1992 January 1. 3,750 pounds of isopropyl alcohol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 101355.

1992 January 2-3. EPA served a complaint on UCC&P and Gulf Coast Waste Disposal Authority for violations of the hazardous waste laws in connection with disposal of wastes from the Texas City, Texas plant at a Gulf Coast Waste Disposal Authority landfill, and seeking a penalty of \$170,150. In 1993, UCC&P indemnified Gulf Coast for \$45,600 of the \$60,000 Gulf Coast paid to EPA in April 1993, and in December 1993, UCC&P paid a penalty of \$95,000 to settle the complaint.

1992 January 4. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1025.

1992 January 9. Ethylene glycol monobutyl ether and oil spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1109 and F92-1111.

1992 January 10. Furnace gas spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1115.

1992 January 13. 100 pounds of propylene oxide at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92120.

1992 January 17. Isobutyl acrylate spilled into Galveston Bay at Union Carbide marine terminal at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 103269.

1992 January 19. Vinyl chloride spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 103543.

1992 January 20. Cellosolve acetate spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1227.

1992 January 22. "Hydrocarbon mix" spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92129.

1992 January 24. 262 pounds of benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 104404.

1992 January 24. Ethylene oxide spilled at Knoxville, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 104445.

1992 January 24. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1263.

1992 January 30. F003 hazardous waste spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92137.

1992 February 3. 782 pounds of benzene spilled after power failure at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F9201404.

1992 February 4. Natural gas and hydrogen spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 92-1420.

1992 February 5. Isopropyl ether spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1430.

1992 February 6. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1462.

1992 February 7. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1480.

1992 February 9. Acetic acid spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1493.

1992 February 15. 200 pounds of vinyl chloride spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 106965.

1992 February 17. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1576.

1992 February 20. 5,000 pounds of ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1620.

1992 February 20. "Flash distilled acid tails residue," ethylene oxide, and ethylene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1621 and F92-1651.

1992 February 21. Butadiene in furnace gas spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 107746.

1992 February 24. Propionic acid spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92161.

1992 March. U.S. EPA issued a unilateral administrative order requiring Union Carbide and five other parties to clean up the Warwick (New York) Landfill Superfund site.

1992 March 6. 7,279 pounds of naphtha coal tar spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1795.

1992 March 6. Benzene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1801.

1992 March 17. Genapol 26L2 spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 110826.

1992 March 18. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-1936.

1992 March 30. Isopropyl alcohol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 112366.

1992 March 30. Ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2075.

1992 April 1. Diethylene glycol monopropyl ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 112537.

1992 April 5. Hydrogen released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F9202149.

1992 April 6. Benzene, naphtha coal tar, and ethylene spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2141.

1992 April 10. Ethylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 113838.

1992 April 10. Benzene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 113844.

1992 April 10. Ethylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92211.

1992 April 11. Butyl cellosolve acetate spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 113910.

1992 April 11. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2190.

1992 April 17. Oil spilled into Kanawha River at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92223.

1992 April 20. Isobutane spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 114754.

1992 April 22. Diethylene glycol monoethyl ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 115220.

1992 April 27. Ethylene, propane, and benzene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 115763.

1992 April 29. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 116087 and 116392.

1992 May 6. Asbestos released at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 116865.

1992 May 8. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 117082.

1992 May 8. 700 pounds of acetyl acrelate spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 117165.

1992 May 8. Butadiene spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92261.

1992 May 9. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 117205.

1992 May 10. 1,428 pounds of tetrahydrofuran spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92258.

1992 May 11. Ethylene oxide spilled at Knoxville, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 117405.

1992 May 16. Ethylene oxide spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2608.

1992 May 19. Acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 118309.

1992 May 20. Vinyl chloride spilled at Garland, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 118494.

1992 May 26. Benzene and styrene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 119408.

1992 May 28. Dowtherm coolant spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 119480.

1992 May 30. Ethyl alcohol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2848.

1992 May 30. Ethyl alcohol spilled at Louisville, KY. U.S. EPA ERNS database, Aug. 16, 1994, record number 119783.

1992 June 2. Propylene and hexane spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 120110.

1992 June 7. "Organic compounds" spilled into Davis Creek at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV 92335.

1992 June 10. Leachate and incinerator scrub water spilled into Ward Creek at South Charleston, West

Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92336.

1992 June 10, 11, 13, and 14. Benzene, styrene, Butadiene and butylene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 121275, 121506, 121741, and 121843.

1992 June 16. Fuel oil spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3154.

1992 June 18. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 122580.

1992 June 23. Benzene and hexane spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 123198.

1992 June 26. Butadiene spilled at Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92322.

1992 June 28. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 124151.

1992 July 1. Oil spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92328.

1992 July 3. Benzene and ethylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3251.

1992 July 4. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3254.

1992 July 9. Acrylonitrile ethyl and acrylate ethyl hexyl spilled at Somerset, New Jersey. U.S. EPA ERNS database, Aug. 16, 1994, record number 92-0889.

1992 July 13. Oxo residues spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3466.

1992 July 20. Benzene and ethylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 128012.

1992 July 27. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3504.

1992 July 29. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3543.

1992 July 30. Ethylene oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3616.

1992 August 3. Ethylene and methane spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3587 and F92-3591.

- 1992 August 12. Liquified oxygen spilled into creek after truck accident at New Boston, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-3737 and F92-3743.
- 1992 August 16. "Sour water" spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 132057.
- 1992 August 23. Ethylene glycol monoethyl ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 133180.
- 1992 August 26. Hydraulic oil spilled into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 133785.
- 1992 August 26. 2-butoxyethanol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 133849.
- 1992 August 28. 2,700 pounds of methyl butanol and 6,300 pounds pentanol spilled when storage tank overflowed at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 134128.
- 1992 August 28. Liquified hydrogen and methane spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 134186.
- 1992 August 28. Hydraulic oil spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92423.
- 1992 August 31. Ethylene spilled at Orange, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 134673.
- 1992 September 3. Genapol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 135131.
- 1992 September 3. Oil spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV92428.
- 1992 September 9. Propanol and isopropyl ether spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-4089.
- 1992 September 14. Ethylene glycol spill into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 136536.
- 1992 September 22. Ethylene oxide and ethylene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-4235.
- 1992 September 24. Ethyl acrylate spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-4235.
- 1992 September 25. Ethylene oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-4266.
- 1992 September 27. TOC spilled into Davis Creek at Charleston, WV Technical Center. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93020.

1992 September 30. Methane, ethane, and ethylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 138831.

1992 September 30. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F92-2306.

1992 October 6. Benzene spilled into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 140385.

1992 October 8. 1,370 pounds of ethyl acrylate spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0075.

1992 October 13. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 140464.

1992 October 14. Methyl carbital spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0130.

1992 October 14. Ethylene glycol monohexane ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0136.

1992 October 15. Isopropyl ether spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0145.

1992 October 22. Furnace gas containing benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0205.

1992 October 25. Flash distilled acid tails residue spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0232.

1992 November 12. Ethyl acrylate spilled at Torrance, CA. U.S. EPA ERNS database, Aug. 16, 1994, record number 93-0738.

1992 November 14. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 145090.

1992 November 16. Ethylene glycol and 1,600 pounds of ethylene spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0466.

1992 November 25. Ethylene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0556.

1992 December 2. "Unknown hydrocarbon materials" spilled into the Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93087.

1992 December 3. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0661.

1992 December 7. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0681.

1992 December 8. Ethyl acetate spilled at Torrance, CA. U.S. EPA ERNS database, Aug. 16, 1994, record number 93-1105.

1992 December 8. Ethylene glycol spilled into the Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 152151.

1992 December 10. 2,100 pounds of toluene spilled into a process sewer system at Long Reach (Sisterville), West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93092.

1992 December 11. Propylcarbitol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0731.

1992 December 15. Ethylene glycol spilled into the Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 152153.

1992 December 18. Butadiene and ethylene glycol monobutyl ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0831.

1992 December 28. Vinyl chloride spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 150814.

1993. Union Carbide's Responsible Care Progress Report shows number of fires and explosions per year (6 in 1988, 3 in 1989, 3 in 1990, 2 in 1991, and 2 in 1992); cancer rates of its employees compared to the U.S. average (less than average); fatalities (2 in 1989, 2 in 1990, 3 in 1991); Union Carbide carcinogens (dichloroethane, butadiene, dioxane, acetaldehyde, acrylonitrile, anthracene, benzene, chloromethane, chromium compounds, dichloromethane, diethyl sulfate, epichlorohydrin, ethyl acrylate, ethylene oxide, formaldehyde, nickel and compounds, propylene oxide, styrene, styrene oxide, tetrachloroethylene, vinyl acetate, and vinyl chloride); 1987-1992 emissions at various plants.

1993 January 3. 1,100 pounds of ammonium hydroxide spilled into the Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-0981.

1993 January 10. Ethylene glycol spilled into the Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 152635 and 152789.

1993 January 11. Ethylene glycol dimethyl ether spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93136.

1993 January 13. 10,000 pounds of amines spilled into sewer at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 153234.

1993 January 18. Ethylene glycol and glycol ether spilled into Galveston Bay at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 153826.

1993 January 31. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1323.

1993 February 1. Ethoxydiglycol spilled at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93158.

1993 February 3. Diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994,

record number F93-1355.

1993 February 6. Diesel fuel spilled into sewer at Logoff, South Carolina. U.S. EPA ERNS database, Aug. 16, 1994, record number 158355.

1993 February 11. 5,600 pounds of methanol spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93182.

1993 February 13. 565 pounds of isobutane spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1487.

1993 February 14. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1491.

1993 February 22. Acetone, vinyl chloride, and vinyl acetate spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1592.

1993 February 26. An unspecified amount of benzene, 25,920 pounds of methane, 67,490 pounds of ethylene, and 40,000 pounds of "refinery by-product gases" were spilled in several incidents at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1635, F93-1641, F93-1642, F93-1643 and F93-1651.

1993 February 26. Diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1648.

1993 March 4. Gasoline spilled into Guayanilla Bay at Penuelas, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 160669.

1993 March 4. Ethylene oxide and propylene oxide spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93197 and WV93206.

1993 March 11. Gasoline spilled at Guayanilla, Puerto Rico. U.S. EPA ERNS database, Aug. 16, 1994, record number 93-0473.

1993 March 23. 1,111 pounds of a benzene/hydrocarbon mix were spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-1948.

1993 March 29. Benzene and ethylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 164740.

1993 March 30. Dripolene spilled at Texas City, Texas number 164976.

1993 April 4. 6,515 pounds of ethylene glycol spilled into storm ditch at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2099.

1993 April 6. Benzene, ethylene and propylene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 165969 and F93-2209.

1993 April 14. Benzene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2220.

1993 April 15. 900 pounds of sodium hypochlorite spilled into sewer at Chesterton, Indiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 167766.

1993 April 16. Oil spilled at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93254.

1993 April 26. Ethylene oxide spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 169770.

1993 April 27. 150 pounds of toluene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2361.

1993 April 28. Methane and ethylene released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2384.

1993 April 30. Ethylene oxide spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 170604.

1993 April 30. Hydrogen gas released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2407.

1993 May 15. Propionaldehyde spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2622.

1993 May 17. Methyl ethyl ketone spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2660.

1993 May 17. 1,516 pounds of furnace gas spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 174175.

1993 May 28. 260 pounds of isopropanol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 177082.

1993 June 4. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-2911.

1993 June 8, June 22, and June 24. "Silicon oil" spilled into Ohio River at Sisterville, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93326, WV93349 and WV93352.

1993 June 11. Acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3001.

1993 June 16. Benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3056.

1993 June 22. Anhydrous ammonia released at South Charleston, WV, injuring one person. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93351.

1993 June 26. Nitrogen gas released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3205.

1993 June 26. Benzene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3267.

1993 June 30. C-dripline containing benzene spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3290.

1993 July 3 and June 7. Glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3336 and F93-3378.

1993 June 11. Ethylene glycol spilled at Indian Orchard, Massachusetts. U.S. EPA ERNS database, Aug. 16, 1994, record number 185754.

1993 July 13. Acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3439.

1993 July 14. 1,875 pounds of ethylene glycol released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3454.

1993 July 20. Acetone, vinyl acetate, and styrene spilled at Blaine Island in South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93381 and 187361.

1993 July 21. 8,300 pounds of ethylene released at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3550.

1993 July 24. 280 pounds of ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3581.

1993 August 5. Butadiene and ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3734 and F93-3740.

1993 August 11. Diethylanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3835.

1993 August 15. 1,652 pounds of diethylene glycol monoethyl ether spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-3850.

1993 August 16. Ethylene glycol spilled into the Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 192677.

1993 August 17. Butoxytriglycol (brake fluid) spilled from tank car at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV93411.

1993 August 22. Fifty gallons of a "toluene mixture" spilled at Piscataway, New Jersey. U.S. EPA ERNS database, Aug. 16, 1994, record number 93-1077.

1993 August 30. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4014.

1993 August 30. Oil spilled into Duck River at Columbia, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 195398.

1993 September 1. Samples from a cooling water return showed "high levels" of benzene at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4051.

1993 September 2. Trimethyl nonylalcohol and water spilled from an underground flow line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4067.

1993 September 6. 10,000 gallons of propylene vented from a ruptured safety valve at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4083.

1993 September 11 and 16. Benzene and butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4145 and F93-4213.

1993 September 14. 160 pounds of ethylene glycol spilled from barge at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F93-4170.

1993 September 19. Benzene spilled into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 199007.

1993 September 25. Acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 199571.

1993 September 28. Ethylene glycol spilled into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 199877.

1993 September 29. Acrolein released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 200276.

1993 October 3. Acrolein spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0016.

1993 October 6. 2,768 pounds of butadiene released at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0052.

1993 October 8. Methyl tert-butyl ether released at Export, PA. U.S. EPA ERNS database, Aug. 16, 1994, record number PA94024.

1993 October 14. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0159.

1993 October 18. 20,000 pounds of C5 aldehyde spilled from overflowing storage tank at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0200.

1993 October 18. Non-PCB biphenol spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94023.

1993 November 2. 2,500 pounds of glycol ether spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number 205993.

1993 November 3. Butadiene, benzene, and styrene released at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0405.

1993 November 4. Benzene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0418.

1993 November 10. Diethanolamine spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0506.

1993 November 11. Ethylene glycol spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0514.

1993 November 19. The U.S. EPA issued a complaint to UCC&P alleging violations of the Clean Air Act at the Texas City, Texas plant, seeking a civil penalty of \$194,550.

1993 November 24. Butyl carbitol spilled at Torrance, CA. U.S. EPA ERNS database, Aug. 16, 1994, record number 94-0912.

1993 November 25. Ethane, propane, and 4,110 pounds of propylene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 209752.

1993 December 2. 1,000 pounds of ethylene released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 210670.

1993 December 3. Butadiene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0817.

1993 December 6 and 7. 1,843 pounds of ethylene released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0852, F94-0853, and F94-0854.

1993 December 12. Ethylene, benzene, and butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0930.

1993 December 13. Ethylene glycol and contaminated water spilled from overflowing containment area due to rain into the Mississippi River at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 212457.

1993 December 15. Ethylene glycol spilled from leaking storage tank at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0977.

1993 December 16. Propylene, propane, and butadiene spilled at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-0991 and F94-0992.

1993 December 30. 28,281 pounds of ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1125.

1994 January 2. Butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 214865.

1994 January 4. Ethylene glycol, ethylene oxide, naphthalene, benzene, butadiene, and diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1173, F94-1174 and F94-1175.

1994 January 11. 2,500 pounds of sodium hydroxide spilled from overflowing storage tank into ditch at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1278.

1994 January 11. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1270.

1994 January 12. Arsenic trioxide spilled at Kingman, Arizona. U.S. EPA ERNS database, Aug. 16, 1994, record number 94-1608.

1994 January 13. Vinyl chloride spilled from a pipeline at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1304.

1994 January 14. Compressor oil spilled into the Black River at Loraine, Ohio. U.S. EPA ERNS database, Aug. 16, 1994, record number 216687.

1994 January 21. Butyl acetate spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1387.

1994 January 22. 241 pounds of benzene and 215 pounds of butadiene released at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1425.

1994 January 24. Dowtherm spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1431.

1994 January 25. 500 gallons of ethylene glycol spilled from overflowing tank into the Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 218627.

1994 January 27. Vinyl chloride spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1511.

1994 January 27. Ethylene glycol released at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1508, F94-1509 and F94-1510.

1994 January 27. Methyl vinyl acetate spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94139.

1994 February 2. 2,715 pounds of diethanolamine spilled from storage tank at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1604.

1994 February 6. Ethylene glycol spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1653.

1994 February 9. Ethylene glycol spilled into storm drain at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV 94156.

1994 February 12. Ethylene glycol spilled from transfer line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1740.

1994 February 14. Diethylene glycol monobutyl ether spilled at tank farm at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1761.

1994 February 15. Ethylene glycol spilled from radiator at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1768.

1994 February 18. Ethylene glycol spilled from a furnace at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1817.

1994 February 20. 523 pounds of Dowtherm spilled from pump into wastewater treatment system at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1833 and F94-1837.

1994 February 20. Vinyl chloride spilled from tank car at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1835.

1994 February 23. EPA issued a complaint and compliance order to UCC&P, alleging violations of federal hazardous waste regulations at the South Charleston, West Virginia plant, and seeking a civil penalty of \$320,000.

1994 February 25. 626 pounds of ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-1906.

1994 March 2. Diethylene glycol spilled into Mississippi River at Hahnville, Louisiana number 224121.

1994 March 6. Vinyl acetate, 585 pounds of acetone, and 252 pounds of vinyl chloride spilled into sewer at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2020.

1994 March 8. Diethylene glycol monobutyl ether spilled from corroded transfer line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2053.

1994 March 15. 174 pounds of Dowtherm spilled from overpressurized acrylic unit at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2145.

1994 March 22. 435 pounds of "crude amines" spilled from storage tank at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2251.

1994 March 23. Benzene and ethylene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2263.

1994 March 23. Benzene and butadiene spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2267.

1994 March 22. Glycol ether spilled at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94216.

1994 March 23. 3,158 pounds of propylene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2276.

1994 March 28. Hydraulic oil spilled into industrial canal at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 232035.

1994 March 28. Benzo a-pyrene, dibenzo (a,h) anthracene, and benzo b-fluoranthene released from furnace at Columbia, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 232172.

1994 March 29. Ethylene oxide released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2343.

1994 April 2. Propyleneimine released from storage tank at Garland, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2414.

1994 April 4. 5,660 pounds of ethane and 492 pounds of propane released from transfer line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2425.

1994 April 4. Vinyl chloride released from recovery line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2440.

1994 April 7. Propionaldehyde spilled from feed line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2477.

1994 April 12. 15,660 pounds of furnace gas released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2546.

1994 April 13. Class D hazardous wastewater was spilled from a ruptured line on vacuum truck at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2564.

1994 April 14. Vinyl chloride spilled from rail car at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2580.

1994 April 16. Methane released from overpressurized transfer line at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2619.

1994 April 18. Heat transfer oil spilled into Kanawha River at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94271 and 235408.

1994 April 18. Mineral oil spilled at South Charleston, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94264.

1994 April 20. Mixed C-5 aldehydes, 1,400 pounds of pentanol, and 850 pounds of methyl butanol spilled from overflowing storage tank at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2680.

1994 April 21. Methyl ethyl ketone, toluene, and acetone spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2720.

1994 May 1. Ethylene oxide spilled into Mississippi River at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 237522.

1994 May 2. 7,717 pounds of furnace gas released during power failure at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2856.

1994 May 3. Ethylene, propylene, and benzene released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-2868.

1994 May 7. Butadiene and biphenyls spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16,

1994, record number 238482 and F94-2938.

1994 May 10. 390 pounds of ethylene glycol spilled from failed pipeline at Institute, West Virginia. U.S. EPA ERNS database, Aug. 16, 1994, record number WV94305.

1994 May 15. 800 pounds of ethylene released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3059.

1994 May 15. Vinyl chloride, vinyl acetone, and acetone released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3065.

1994 May 16. 13,818 pounds of sulfuric acid spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3127.

1994 June 3. Vinyl chloride released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3363.

1994 June 3. Hexyl cellosolve spilled from sewer during rain at tank farm at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3372.

1994 June 6. Diethanolamine spilled from tank at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3415.

1994 June 9. Ethylene glycol released at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3477.

1994 June 9. Butadiene spilled from residue tank at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3480.

1994 June 10. Benzene, toluene, and ethylene released from vent blower at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3484.

1994 June 15. Benzene and hexane spilled into settling basin at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3587.

1994 June 17. Butadiene and naphthalene spilled from overflowing storage tank at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3608.

1994 June 18. 10,773 pounds of furnace gas was spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3625.

1994 June 23. Ozone compressor vented at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3689.

1994 June 28. 209 pounds of "concentrated waste" spilled from corroded pipeline at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3760.

1994 June 29. Hydroquinone spilled from a corroded transfer line at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4018.

- 1994 June 30. Diethanolamine spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3794.
- 1994 July 1. Ethylene glycol spilled at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3801.
- 1994 July 1. 204 pounds of Genapol spilled from hazardous materials tank trailer at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3802.
- 1994 July 5. Hydrogen, carbon monoxide, and methane released from gas turbine scrubber at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3838.
- 1994 July 5. Butadiene and flammable gas released from corroded process line at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3849.
- 1994 July 6. Dimethylamine spilled from rail car at Charleston, WV; Interstate 64 was closed. U.S. EPA ERNS database, Aug. 16, 1994, record number 247856 and 247865.
- 1994 July 10. Propionaldehyde released from discharge pipeline at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3910 and F94-3916.
- 1994 July 10. Vivyl acetate, isoproponal, and acetone released at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3925.
- 1994 July 12. Mercury spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3950.
- 1994 July 13. Dowtherm spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3982 and F94-3983.
- 1994 July 14. Ethylene and ethylene oxide spilled at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3995 and F94-4004.
- 1994 July 14. Propionaldehyde released from feed line at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-3984.
- 1994 July 15. "Ground water seeping into the Duck River, creating a sheen" at Columbia, Tennessee. U.S. EPA ERNS database, Aug. 16, 1994, record number 249719.
- 1994 July 18. Ethylene glycol spilled from fire pump diesel motor at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4049.
- 1994 July 22. 600 pounds of hexene burned in flare fire at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4154.
- 1994 July 26. 758 pounds of furnace gas rleased at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4174.
- 1994 July 28. Ethylene glycol spilled during maintenance at Seadrift, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4222.

1994 July 29. 100 gallons of naphtha-based pyrolosys fuel oil spilled from pump at Hahnville, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4232.

1994 July 31. 97 pounds of benzene spilled from a dock line at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number F94-4261.

1994 August 4. Hexane and 91 pounds of benzene released from settling basin vent blower at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 253700.

1994 August 4. Butadiene released from furnace gas compressor at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 255211.

1994 August 10. Hydrogen, nitrogen, and methane spilled at Texas City, Texas. U.S. EPA ERNS database, Aug. 16, 1994, record number 254721.

1994 August 13. Acrolein released from process reactor at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 255236.

1994 August 15. Ethylene oxide released from process vessel at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 255487.

1994 August 15. 100 pounds of benzene spilled from overflowing sump after rain at Taft, Louisiana. U.S. EPA ERNS database, Aug. 16, 1994, record number 255511.

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